NATIONAL ELECTRIC POWER REGULATORY AUTHORITY
ISLAMIC REPUBLIC OF PAKISTAN

PERFORMANCE EVALUATION REPORT

OF

OPERATIONAL POWER PLANTS

FOR

FY 2024-25

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PREFACE

The National Electric Power Regulatory Authority (NEPRA) is pleased to present its Annual Report on the performance of electric power generation in Pakistan for the fiscal year 2024-25. This report offers a comprehensive assessment of the sector's performance over the year, highlighting key developments, challenges, and milestones that shaped the electric power landscape. It aims to provide a detailed and insightful overview of the power generation sector, reflecting both the progress achieved and the obstacles faced during the reporting period.

The report features a range of key performance indicators that shed light on the efficiency, reliability, and sustainability of electric power generation across the country. It also addresses critical challenges—such as excess generation capacity and infrastructure constraints—and outlines the strategies and interventions implemented to manage these issues effectively.

In addition to serving as a performance evaluation tool, the report is intended to be a valuable resource for policymakers, industry stakeholders, and the general public. By presenting a clear and accessible summary of the current state of electric power generation in Pakistan, it seeks to deepen understanding of the sector's complexities. Furthermore, it is designed to support strategic planning, facilitate informed decision-making, and reinforce regulatory oversight, which is essential for driving long-term improvements in the country’s energy sector.

NEPRA trusts that this annual report will make a meaningful contribution to ongoing efforts aimed at enhancing the performance, reliability, and resilience of Pakistan’s energy infrastructure. The data contained in this report has been compiled from relevant sources; however, certain information has been provided by the sources on a provisional basis. Therefore, any comparison of this data with figures reported elsewhere should be made keeping in view the scope of this report. Any differences observed may be due to adjustments, reconciliations, or subsequent revisions. The analysis and findings presented are intended solely for informational, analytical, and research purposes. NEPRA bears no liability for any legal or commercial claims arising from regulatory observations or the use of data provided in this report.

EXECUTIVE SUMMARY

The Performance Evaluation Report for FY 2024-25 presents a comprehensive review of Pakistan's power generation sector, focusing on capacity utilization, generation costs, and the efficiency of operational power plants under both the CPPA-G and K-Electric (KE) systems. During the year, with respect to reference capacity the overall utilization of thermal power plants stood at 42.5%, while renewable energy plants operated at an average utilization of 36.6%. This underutilization, coupled with excess installed capacity, led to a significant rise in per-unit electricity costs, primarily due to higher capacity payments.

The total power purchase cost during the fiscal year—excluding electricity imported from Iran—was recorded at Rs. 2,943.214 billion, of which 61% comprised Capacity Purchase Price (CPP) and 39% Energy Purchase Price (EPP). The per-unit CPP averaged Rs. 14.3/kWh and the EPP Rs. 9.0/kWh. The elevated CPP stemmed mainly from surplus capacity and low plant utilization, whereas the EPP was driven higher by dependence on costly imported fuels such as RLNG, RFO, and imported coal. Conversely, plants based on indigenous fuels—such as nuclear, Thar coal, and local gas—offered substantially lower generation costs but remained underutilized.

Among these, Uch Power and Uch-II Power Plants, both operating on dedicated gas fields, demonstrated low generation costs of around Rs. 13.4/kWh during FY 2024-25, yet their utilization factors remained modest at 80.9% and 71.6%, respectively against their availability factors of 92.4% & 95.7%. These plants are ranked among the top in the Economic Merit Order and represent some of the most economical generation sources in the national fleet; however, their limited utilization restricts potential cost savings for the system. This underutilization has led to increased reliance on expensive imported-fuel power plants, ultimately raising consumer-end tariffs through higher monthly fuel price adjustments. Furthermore, depletion of the Uch Gas Field—a mature reservoir—poses a risk to the future sustainability of these plants. Ensuring optimal utilization of these cheaper indigenous gas plants and managing their fuel supply proactively are therefore critical to reducing overall system costs and maintaining energy security.

Similarly, Thar coal-based power plants—another category of indigenous and cost-effective generation sources—operated at an average utilization factor of only 72.9% during FY 2024-25, despite their highly competitive energy cost. These plants are also ranked among the top in the Economic Merit Order; however, their underutilization has resulted in the dispatch of expensive imported-fuel power plants, thereby increasing the consumer-end tariff through monthly fuel price adjustments.

In parallel, the transition of Lucky Electric Power Company Limited (LEPCL) from imported to indigenous Thar coal mainly depends on the availability of coal supply from the Thar coal mines and the timely completion of the Thar Rail Link Connectivity Project being implemented by Pakistan Railways. LEPCL has expressed its concerns regarding delays in the above-mentioned project. As per LEPCL, while Segment-I of the project—linking the Thar coalfield to the main railway network—is expected to be completed by June/July 2026, Segment-II, which includes the branch line and the common coal unloading facility at Port Qasim, remains pending approval of its revised PC-I and has not yet entered the construction phase. According to LEPCL, the potential delay in Segment-II could hinder the transport of 10–12 kilotonnes per day of Thar coal required for its plant operations, thereby necessitating continued reliance on imported coal until both segments are fully operational. The company has conveyed that the

absence of synchronized completion of both segments may result in underutilization of investment in Segment-I and defer the intended transition from imported to local coal.

Transmission bottlenecks and grid constraints restricted the dispatch of cheaper power from the southern region to demand centers in the north, resulting in greater reliance on expensive imported fuel–based plants. The prolonged outages of the Neelum Jhelum Hydropower Plant and Guddu 747 MW unit further weakened cost efficiency. Renewable energy sources also faced curtailments due to intermittency and evacuation limitations, resulting in Non-Project Missed Volume payments exceeding Rs. 13 billion.

The report highlights that varying load and the intermittent renewable generation has led to increased part-load operations of thermal plants, adding Rs. 44.6 billion in partial load adjustment costs during FY 2024-25. Overall, the sector's high fixed costs, low utilization, and inefficient dispatch of generation resources collectively resulted in higher electricity tariffs and financial stress on the power system.

Within the KE system, generation continued to rely heavily on imported fuels, with an average utilization of 34.6%. Despite privatization and partial capacity expansion, KE's dependence lies on costly generation sources. Resultantly, the generation costs in KE system remained significantly higher than the national grid's supply.

The interconnection between the National Grid and KE was completed and energized on 27 July 2025 in accordance with the Interconnection Agreement (ICA), allowing transfer capability of up to 2,000 MW. The commissioning of these facilities followed delays that had limited KE's ability to import power from the CPPA-G system during the preceding period. As submitted by the Independent System and Market Operator (ISMO), KE's system studies confirm the technical feasibility of drawing 2,000 MW power from the National Grid under the existing configuration. However, KE's operational and commercial arrangements, including the "Take-or-Pay" RLNG Gas Supply Agreement for BQPS-III and related part-load operation charges, continue to influence its generation mix and power drawl patterns.

To achieve long-term sustainability, the report emphasizes the need for optimizing generation capacity in line with actual demand, prioritizing the use of low-cost indigenous fuels, expediting transmission upgrades to remove regional constraints, restoring non-operational low-cost plants, and carefully evaluating the economic implications of future capacity additions. A balanced generation mix and enhanced system efficiency are imperative for reducing electricity costs, improving reliability, and ensuring a financially sustainable and resilient power sector.

1. Optimizing Generation Capacity to Ensure Cost-Effective and Reliable Power Supply:

When consumers are required to bear the cost of unutilized capacity, an excess in generation capacity or low asset utilization can lead to elevated Capacity Purchase Prices (CPP), ultimately increasing the cost of electricity. This mismatch between available generation capacity and actual demand threatens the financial viability of the power sector and results in higher electricity prices for end-users.

In FY 2024-25, with respect to reference capacity, the overall utilization factor for thermal power plants, including nuclear facilities, was recorded at 42.5%. In comparison, renewable energy (RE) plants—such as those utilizing hydro, solar, wind, and bagasse—operated at a utilization rate of 36.6%. The relatively low utilization of thermal plants was mainly due to reduced electricity demand and load shedding associated with Aggregate Technical and Commercial (AT&C) losses. On the other hand, RE plants underperformed primarily due to limited availability of natural energy inputs and constraints in energy transmission infrastructure, particularly affecting wind-based projects.

Given the seasonal and daily variability in electricity demand, strategic planning of generation capacity becomes vital. A higher plant utilization rate tends to reduce the per-unit CPP, whereas under-utilization results in higher costs. Therefore, optimizing the utilization of the planned capacity is essential for reducing the cost per unit of electricity, improving reliability, and ensuring a more efficient and sustainable power supply system.

To maintain long-term financial and operational sustainability of the electricity sector, a thorough financial and economic assessment of generation capacity built to meet short-term peak loads should be an integral part of the Indicative Generation Capacity Expansion Plan (IGCEP). Such analysis helps identify the most cost-effective level of capacity required to maintain system reliability. Moreover, it is essential to account for the economic implications of renewable energy intermittency, including the need for standby generation and operating thermal plants at partial load. These factors must be evaluated comprehensively to ensure the smooth integration of renewables into the grid while maintaining an economically viable and stable power system.

Additionally, due to indexation mechanisms, any new generation capacity should be assessed for its financial impact over a long-term horizon of at least 10 to 15 years. This evaluation must consider the existing capacity, utilization trends, and both Energy Purchase Price (EPP) and CPP metrics. A long-range financial and operational review will provide clarity on how new capacity additions could affect the overall power sector performance.

Although RE sources typically involve no fuel costs, their reliability is hampered by the variable nature of resources like sunlight, water flow, and wind speed, which limits their effectiveness as base-load providers. In contrast, thermal power plants offer higher reliability through better utilization but are subject to increased fuel costs, which can diminish their cost-efficiency. Consequently, any new capacity additions should prioritize renewable projects with high-Capacity Utilization Factors (CUFs) and thermal plants that operate with lower fuel costs. This strategy will reduce overall financial burdens and improve both the economic and technical performance of the power sector. Achieving a well-balanced generation mix is essential for minimizing electricity costs and maintaining the reliability of the power supply system.

The current generation mix of Pakistan's power sector, as of the end of the FY 2025, along with their respective utilization factors with respect to reference capacity during this period, is as follows:

Source	Capacity in CPPA-G System*		Capacity in KE System**		Capacity in Country	
	Reference Capacity	Utilization Factor	Reference Capacity	Utilization Factor	Reference Capacity	Utilization Factor
	MW	%	MW	%	MW	%
Nuclear	3,265	78.5	0	-	3,265	78.5
Local Gas	2,225	57.4	1,426	8.3	3,651	38.2
Thar Coal	2,433	72.9	0	-	2,433	72.9
Imp. Coal	4,342	22.9	52	61.2	4,394	23.4
RLNG	6,141	41.4	2,264	28.9	8,405	38.0
RFO	2,814	1.9	379	8.2	3,193	2.6
HSD	0	-	227	0.2	227	0.2
Total Thermal	**21,220**	**43.4**	**2,418**	**34.6**	**23,638**	**42.5**
WAPDA Hydro	8,400	45.6	0	-	8,400	45.6
IPPs Hydro	1,906	35.5	0	-	1,906	35.5
PEDO Hydro	135	35.0	0	-	135	35
Neelum Jhelum	965	0.0	0	-	965	0
AJK-Jagran	30	42.7	0	-	30	42.7
Wind	1,843	23.8	0	-	1,843	23.8
Solar	680	19.9	100	21.6	780	20.1
Bagasse	254	30.1	0	-	254	30.1
Total RE	**14,213**	**36.7**	**100**	**21.6**	**14,313**	**36.6**

*As of 30.06.2025 (excluding SPPs/CPPs/NCPPs, import from Iran and net metering).

**As of 30.06.2025 (excluding net metering). The sum of individual fuel-based capacities exceeds the total thermal capacity of 2,420 MW. This is because certain power plants in KE's fleet operate on dual fuel, so their capacity is reflected under multiple fuel categories. As a result, the total thermal capacity is not the arithmetic sum of the listed sources.

The table illustrates the low utilization rates of power plants, which, regardless of the reasons behind them, significantly contribute to elevated electricity costs across the country. The utilization figures presented are based on reference capacity. For renewable energy (RE) power plants, the Capacity Utilization Factor (CUF) is largely influenced by the availability of natural energy resources like hydrology, sunlight, and wind. Due to the variability of these resources, RE plants generally exhibit lower CUFs compared to thermal power plants. On the other hand, the reduced utilization of thermal power plants is primarily attributed to either their unavailability or a mismatch between electricity demand and the existing generation capacity. In order to bring down electricity tariffs and build a more cost-efficient power sector, it is critical to identify the optimal generation capacity and establish an effective and balanced mix of generation sources. This report provides plant-wise details of utilization factors, along with other key parameters, followed by a pictorial representation.

2. Understanding and Optimizing Generation Costs for a Sustainable Power Sector:

Electricity generation forms the backbone of the entire power supply chain and plays a crucial role in shaping electricity prices, directly impacting the efficiency, sustainability, and competitiveness of a country's power sector. As the central element of the electricity system, power generation not only determines the cost of electricity but also influences the overall economic outlook, environmental goals, and energy security of the nation.

In any power system, generation costs are a major factor in determining electricity tariffs and are thus vital to the financial and operational sustainability of the sector. These costs are generally categorized into two main components: the Energy Purchase Price (EPP) and the Capacity Purchase Price (CPP). Each of these represents different cost elements associated with electricity production and, together, they define the total price at which electricity is procured from generation companies. According to the Power Generation Policy 2015, these components are structured as follows:

The CPP includes costs related to Fixed Operations and Maintenance (O&M), Return on Equity, Debt Servicing, Insurance, Cost of Working Capital, and any other fixed costs approved by NEPRA.

The EPP, on the other hand, consists of expenses such as fuel charges or water use fees, Variable O&M, and any other variable costs determined by NEPRA. EPP payments are made based on the actual number of kilowatt-hours (Rs./kWh) delivered to the grid.

The dynamic interaction between EPP and CPP plays a critical role in determining the final electricity price, with direct implications for consumers and the overall economy. Managing these costs effectively is key to enhancing electricity affordability and reliability, encouraging long-term investment in generation, and ensuring energy security. As the transition to cleaner and more sustainable energy sources accelerates, maintaining an appropriate balance between these two components will become even more critical.

For this reason, a thorough understanding of generation cost structures and the implementation of strategies to optimize both EPP and CPP are essential to improving the efficiency, sustainability, and long-term resilience of the power sector.

3. Impact of Fuel Source on Energy Purchase Price (EPP) and Electricity Costs:

The Energy Purchase Price (EPP) typically comprises fuel costs along with variable operations and maintenance (VO&M) expenses. However, in the case of Thar coal-based power plants, the fixed costs associated with the coal mining are also included in the EPP structure. While EPP is generally incurred only when a plant is operational, the inclusion of fixed coal mine costs means that certain expenses remain constant regardless of whether the plant is running or idle. Additionally, a plant's operational efficiency directly affects its EPP; operating at partial load reduces efficiency, resulting in increased fuel consumption per unit of electricity generated, and therefore a higher EPP.

For renewable energy (RE) power plants, the EPP is close to zero since they rely on natural, freely available resources like wind, sunlight, and water, which do not require fuel expenditures. On the other hand, thermal power plants have varying EPP levels depending largely on the type of fuel they use and how readily that fuel is available. Plants that operate on indigenous resources such as local natural gas, Thar coal, or nuclear fuel benefit from lower EPP due to the local availability of these energy sources, which reduces transportation costs and insulates the system from global fuel price volatility.

Conversely, thermal plants dependent on imported fuels—including High-Speed Diesel (HSD), Residual Fuel Oil (RFO), Re-gasified Liquefied Natural Gas (RLNG), or imported coal—face much higher EPP. These fuels are subject to fluctuations in the international market, making their prices more volatile and often significantly higher. As a result, the cost of

generating electricity from these plants increases, ultimately leading to higher electricity prices for consumers.

4. Quarterly EPP Comparison by Fuel Type under CPPA-G for FY 2024–25:

The table below presents a detailed breakdown of the Energy Purchase Price (EPP) ranges for power plants operating under the CPPA-G system, organized by fuel type for the different quarters of FY 2024-25. It illustrates the variations in EPP across multiple fuel sources, providing a clear comparison of how the cost of electricity generation fluctuates based on the type of fuel utilized.

Source	Energy Purchase Price Ranges (Rs./kWh)				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
Nuclear	1.6-2.7	1.4-2.2	1.4-2.2	1.4-2.2	1.4-2.7
Local Gas	9.4-13.7	8.4-13.8	8.3-13.7	13.2	8.3-13.8
Thar Coal	10.7-13.1	6.9-11.8	11.2-12.7	10.3-10.8	6.9-13.1
Imp. Coal	13.6-19.7	12.8-22.4	14.1-19.1	12.6-17.5	12.6-22.4
RLNG	21.9-28.2	20.8-27.8	20.3-26.7	19.3-27.4	19.3-28.2
RFO	29.9-35.2	29.9-34.7	29.4-34.5	12.9-33.6	12.9-35.2

Sources:
1. Fuel Price Adjustment Decisions for different power plants.
2. Quarterly Indexation/Adjustment Decisions for different power plants.

During FY 2024-25, the Energy Purchase Price (EPP) within the CPPA-G system—excluding electricity imported from Iran—amounted to approximately Rs. 1137.027 billion. This represents about 39% of the total power purchase cost, which stood at nearly Rs. 2943.214 billion for the year. The total electricity generation, including output from renewable energy (RE) plants, was recorded at 126,705 GWh over the same period, resulting in an average per-unit EPP of Rs. 9.0/kWh.

Although an EPP of Rs. 9.0/kWh is relatively moderate, there remains potential for further reduction. This could have been achieved by maximizing the use of local fuel-based power generation, particularly from indigenous gas-fired plants, Thar Coal Power Plants, and nuclear power stations, all of which generally incur lower fuel costs. However, the limited utilization of Thar Coal plants has driven up their EPP, as the fixed costs linked to coal mining operations are distributed over a smaller volume of generated electricity. Underutilizing these resources under the current circumstances is economically inefficient. The table that follows presents the average utilization levels of the combined capacities of nuclear, Thar Coal, and indigenous gas-based power plants across the different quarters of FY 2024-25.

Source	FY 2024-25						
	Accumulative Capacity (MW)		Utilization Factor (%) w.r.t Reference Capacity				
	Installed	Reference	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
Nuclear	3,620	3,265	78.6	70.3	88.5	74.0	78.5
Thar Coal	2,640	2,433	75.7	61.7	70.8	83.7	72.9
Local Gas	2,378	2,225	62.7	53.7	57.4	55.4	57.4

Unutilized energy **(GWh)** from wind power plants due to evacuation limitations (FY 2024-25)	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
	184	89	84	162	519

The reduced utilization of the power plants listed in the previous table has negatively impacted the overall performance of the power sector. However, an equally significant concern has been the operation of power plants running on Residual Fuel Oil (RFO) and Re-gasified Liquefied Natural Gas (RLNG), which have contributed to a sharp increase in the Energy Purchase Price (EPP) due to their higher fuel costs. Despite having the availability of cheaper fuel power plants, the continued reliance on these expensive imported fuels has placed additional financial strain on the sector and has driven up the cost of electricity generation. The table below provides an overview of the average utilization levels of RLNG, RFO, and Imported Coal-based power plants throughout the different quarters of FY 2024-25.

Source	FY 2024-25						
	Accumulative Capacity (MW)		Utilization Factor (%) w.r.t Reference Capacity				
	Installed	Reference	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
RLNG	7,144	6,138	49.0	33.0	30.2	48.8	41.4
RFO	5,725	2,814	1.6	0.1	1.8	3.3	1.9
Imported Coal	4,620	4,342	31.0	15.3	13.6	31.5	22.9

The persistent issue of surplus generation capacity and payments for underutilized resources continues to be a significant challenge for Pakistan's power sector. This report presents an in-depth analysis of plant-wise availability and net capacity factors for each power plant across the various quarters of FY 2024-25. The data, shared in both tabular and graphical formats in the following sections, aims to provide a detailed and transparent view of the sector's overall performance.

One of the main drivers of increased Energy Purchase Price (EPP) and total power purchase costs has been the underutilization of more economical, locally fueled, and nuclear power plants, combined with an overdependence on power plants running on RLNG, imported coal, and RFO. These imported fuels not only raise generation costs but also place considerable pressure on the national budget due to the foreign exchange required to finance such imports.

A key concern affecting EPP is the limited use of cost-effective base-load plants located in the southern part of the country. These facilities, despite their potential to supply affordable electricity, are not being fully exploited due to transmission constraints, which prevent the delivery of this energy to demand-heavy central and northern regions. As a result, more expensive power plants operating on RLNG and RFO in the north are dispatched, leading to increased EPP. Addressing this requires NTDC to expedite the implementation of constraint removal schemes to ensure that the low-cost power generated in the south can be fully utilized throughout the national grid.

Besides these structural limitations, other major factors are also contributing to the rising EPP. Among them is the continued operation of high-cost RLNG power plants, often not in line with the economic merit order. This occurs due to contractual minimum offtake commitments for RLNG, as well as technical requirements related to grid stability in areas affected by transmission limitations. Additionally, the underperformance of the LEPCL plant—resulting from inadequate Thar coal supply—and the use of imported coal at the Lucky Coal Power Plant, which was designed to run on local Thar coal, have also contributed to unnecessary cost escalation.

Other operational setbacks have further strained the system. These include the shutdown of the 969 MW Neelum Jhelum hydropower plant since May 1, 2024, the suboptimal open-cycle mode operation of the 747 MW Guddu power plant since July 10, 2022 due to a damaged steam turbine, and the loss of around 519 GWh of wind energy—all of which have raised the EPP and added to foreign exchange expenses.

To improve cost efficiency and ease pressure on the economy, it is crucial to prioritize the full utilization of nuclear, Thar coal, and indigenous gas-based power generation facilities. At the same time, reliance on costlier fuels such as RLNG, imported coal, and RFO must be reduced. Immediate action is needed to bring the Neelum Jhelum plant back online and restore the Guddu 747 plant to full capacity in combined cycle mode. Moreover, the available potential of renewable energy should be maximized and integrated effectively into the system without curtailment. A fundamental enabler for these improvements is the development of an upgraded, constraint-free transmission network, allowing for the seamless transfer of lower-cost electricity from the southern region to K-Electric as well as central and northern areas of the country.

5. Understanding Capacity Purchase Price (CPP) and Its Impact on Power Generation Costs:

The Capacity Purchase Price (CPP) represents the fixed costs tied to power plants, which include fixed operations and maintenance (O&M) expenses, debt repayments, Return on Equity (RoE), Return on Equity During Construction (RoEDC), insurance, and other similar financial obligations. These expenses are considered fixed because they do not vary with the plant's level of operation. Consequently, while the overall CPP amount remains constant in absolute terms, the cost per unit of electricity fluctuates depending on how much the plant is actually used. It is important to highlight that although these costs are termed as fixed, they can still vary due to external financial variables such as changes in KIBOR, LIBOR, exchange rates, and other influencing elements.

In the case of renewable energy (RE) power plants that are already in operation, the applied tariff structures differ; they may follow two-part tariffs, single-part tariffs, or other formats. Nonetheless, due to the high proportion of fixed costs in these projects, energy procurement from RE plants is generally treated under the framework of capacity-based tariffs.

Typically, renewable energy plants exhibit a higher per-unit CPP when compared to thermal power plants. This difference mainly stems from the lower capacity factor of RE facilities, which is an outcome of the variable nature of renewable resources like sunlight, wind, and water flow. On the other hand, thermal power plants generally operate with much higher capacity factors, often going beyond 92%. When thermal plants are used extensively, their fixed costs are spread over a greater amount of generated electricity, resulting in a reduced per-unit CPP. However, when these plants run at lower utilization levels, the per-unit CPP increases because the fixed costs are distributed across a smaller output of electricity.

6. Quarterly CPP Range Comparison by Fuel Type – FY 2024-25:

The table below presents a comprehensive breakdown of Capacity Purchase Price (CPP) ranges for different power plants operating under the CPPA-G system, segmented by fuel type or primary energy resource. This data spans the various quarters of the fiscal year 2024-25. The variation in CPP across these plants reflects differences in technologies and energy sources,

with the primary reason for fluctuation being the level of plant utilization. Higher or lower usage significantly impacts the per-unit CPP, leading to noticeable differences between plant types.

Source	CPP Ranges (Rs./kW/h)				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
Nuclear	6.1-16.6	6.3-16.7	6.3-16.7	6.3-16.7	6.1-16.7
Local Gas	1.7-6.6	1.7-6.6	1.7-6.6	1.7-2.2	1.7-6.6
RLNG	1.9-3.1	1.9-2.5	1.9-2.6	1.9-2.8	1.9-3.1
RFO	2.0-2.6	1.9-2.5	0.6-1.0	0.6-1.7	0.6-2.6
Imported Coal	10.1-11.7	9.4-11.8	8.6-11.9	9.0-11.8	8.6-11.9

Source: Quarterly Indexation/Adjustment Decisions for different power plants.

Source	CPP Ranges (Rs./kWh)				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
Thar Coal	11.6-12.2	11.3-11.8	11.4-11.9	11.9-12.1	11.3-12.2
Wind	13.0-47.9	13.1-47.1	13.2-47.1	13.3-47.0	13.0-47.9
Solar	11.4-49.0	11.2-48.3	11.1-48.2	11.1-48.3	11.1-49.0
Bagasse	8.9-12.5	8.7-9.9	8.5-9.7	4.6-9.7	4.6-12.5

Source: Quarterly Indexation/Adjustment Decisions for different power plants.

In the fiscal year 2024-25, the Capacity Purchase Price (CPP) within the CPPA-G system (excluding electricity imports from Iran) amounted to approximately Rs. 1,806.187 billion. This figure represents around 61% of the total power purchase cost, which stood at nearly Rs. 2,943.214 billion. With total electricity generation—including from renewable energy (RE) sources—reaching 126,705 GWh during the same period, the resulting per-unit CPP comes to about Rs. 14.3/kWh.

This per-unit CPP of Rs. 14.3/kWh is notably high and stands out as a significant factor behind the elevated electricity tariffs in Pakistan. The main reason for this steep figure lies in the country's excessive installed generation capacity, paired with the low utilization of existing power plants. The limited use of RE plants stems largely from the intermittent nature of their primary energy sources—such as low hydrology, inconsistent wind, and insufficient sunlight. On the other hand, thermal power plants suffer from underutilization due to multiple factors, including reduced electricity demand, AT&C-based (Aggregate Technical & Commercial) load shedding, and the generally high cost of electricity in the country.

While improving the utilization of thermal power plants can lower the per-unit CPP by spreading fixed costs over more units of electricity, it is important to recognize that doing so—especially by relying on more expensive fuel-based plants—can result in an increase in the Energy Purchase Price (EPP). Therefore, achieving an optimal balance between plant utilization and fuel cost is essential for maintaining both affordability and sustainability in the power sector.

In FY 2024-25, with respect to reference capacity, thermal power plants in CPPA-G system operated at an average utilization factor of just 43.4%. This low utilization significantly contributed to the rise in per-unit CPP and, in turn, higher electricity prices across the board. Additionally, despite their "must-run" status, renewable energy plants were not operated at full available capacity, leading to financial liabilities in the form of payments for Non-Project Missed Volume (NPMV). The plant-wise and quarterly breakdown of NPMV for the fiscal year is presented in the table below.

Details of Non-Project Missed Volume (Rupees Million)

Name of Power Plant	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
Sapphire Wind Power	95	133	110	182	520
FFC Energy	46	1	7	51	105
Gul Ahmed Wind	62	119	104	125	410
Yunus Energy	93	103	95	109	400
UEP Wind Power	93	228	183	277	781
Master Wind Energy	39	115	92	127	373
Three Gorges Second	161	115	100	129	505
Three Gorges Third	120	117	103	128	468
Zorlu Enerji Pakistan	93	1	12	90	196
Three Gorges First	196	0	22	59	277
Hydrochina Dawood	209	108	74	133	524
Sachal Energy	195	0	31	128	354
Tenaga Generasi	94	97	30	121	342
Hawa Energy	209	124	106	135	574
Metro Power	82	1	24	127	234
ACT Wind	93	3	4	20	120
Jhimpir Power	92	120	106	138	456
Foundation Wind-I	100	0	73	82	255
Liberty Wind Power-I	98	50	47	51	246
DIN Energy	204	51	47	52	354
Tricon Boston-C	144	118	108	141	511
Tricon Boston-B	135	112	103	144	494
Foundation Wind-II	93	6	6	89	194
Liberty Wind Power-II	0	46	44	52	142
Master Green Energy	224	51	43	48	366
Artistic Wind Power	218	49	37	54	358
Tricon Boston-A	70	106	98	145	419
Lakeside Energy	187	50	45	57	339
Lucky Renewables	190	50	37	55	332
NASDA Green	190	50	45	55	340
Gul Ahmed Electric	210	48	44	56	358
ACT2 DIN Wind	212	45	38	55	350
Indus Wind Energy	437	49	49	55	590
Zephyr Power	180	9	76	114	379
Artistic Energy	157	8	12	49	226
Metro Wind Power	58	70	64	78	270
AJ Power	1	0	0.02	0	1.02
Best Green	0	0	5	0	5
Crest Energy	0	0	4	0	4
Harappa Solar	0	2	0	0.5	2.5
Atlas Solar	0	2	2	0.3	4.3
HNDS Energy	1	1	2	3	7
Helios Power	1	1	2	2	6
Meridian Energy	1	1	2	1	5
Total	**5,083**	**2,360**	**2,236**	**3,518**	**13,197**

Source: CPPA-G.

7. Generation Capacity, Utilization, CPP, and EPP by Fuel Type:

The consistent underutilization of power plants—regardless of the underlying reasons—has significantly increased the financial burden on Pakistan's power sector. In the case of

renewable energy (RE) plants, low utilization is largely the result of limitations in the availability of natural energy resources such as reduced hydrology, inconsistent wind patterns, and limited sunlight. In contrast, thermal power plants face underutilization primarily due to subdued electricity demand and load shedding driven by Aggregate Technical and Commercial (AT&C) losses.

Despite the differing causes, the end result remains the same: low utilization of both RE and thermal power plants escalates overall power sector costs, particularly through increased per-unit capacity charges. To offer a clearer picture of the situation, the following table provides a summary of the accumulated reference capacity for various power generation technologies under the CPPA-G system (excluding electricity imported from Iran). The data is categorized by primary energy resource or fuel type and includes the respective utilization factors and associated Capacity Purchase Price (CPP) figures for the fiscal year 2024-25.

Source	Capacity in CPPA-G System			
	Reference Capacity	Utilization	CPP	EPP
	MW	%	Rs. Million	Rs. Million
Nuclear	3,265	78.5	362,705	52,361
Local Gas	2,225	57.4	36,161	155,106
Thar Coal	2,433	72.9	256,054	211,890
Imp. Coal	4,342	22.9	413,787	159,550
RLNG	6,141	41.4	143,914	523,743
RFO	2,814	1.9	28,873	4,815
Total Thermal	**21,220**	**43.4**	**1,241,494**	**1,107,465**
WAPDA Hydro	8,400	45.6	180,451	3,082
IPPs Hydro	1,906	35.5	204,366	3,798
PEDO Hydro	135	35.0	5,344	2,934
Neelum Jhelum	965	0.0	-	-
AJK-Jagran	30	42.7	-	426
Wind	1,843	23.8	132,778	-
Solar	680	19.9	38,376	-
Bagasse	254	30.1	3,378	19,322
Total RE	**14,213**	**36.7**	**564,693**	**29,562**

Source for CPP and EPP: CPPA-G.

The underutilization of nuclear, Thar coal, and indigenous gas power plants is negatively affecting both the Energy Purchase Price (EPP) and the Capacity Purchase Price (CPP). These plants are generally more economical to operate, but their limited use leads to an increase in the per-unit cost of electricity.

On the other hand, the underutilization of more expensive fuel-based plants—such as RLNG, imported coal, and RFO power plants—also raises the per-unit CPP. Yet, when these higher-cost plants are used more frequently, their elevated fuel expenses drive up the EPP. This situation creates a challenging balance: while increasing utilization of costly plants might lower the CPP by spreading fixed costs, it simultaneously pushes the EPP higher, complicating efforts to minimize overall electricity expenses.

The most practical solution is to carefully manage demand through coordinated measures involving all relevant stakeholders, ensuring generation capacity is aligned with actual demand.

This approach aims to provide sufficient supply without compromising the financial sustainability of the power sector.

8. KE System: Generation Capacity, Utilization, and Energy Cost by Fuel Type:

KE was privatized in 2005 with the expectation that private sector investment and management would modernize its operations and improve service delivery across generation, transmission, and distribution. However, despite the passage of two decades, significant challenges remain—particularly in its generation segment. While some investments have been made in increasing capacity, however, the cost of electricity generated by KE's own plants is significantly higher than that of the national grid, a gap that has been flagged by the Authority multiple times. Much of KE's generation is still dependent on imported fuels, making it vulnerable to fuel supply disruptions and global price fluctuations. Technical inefficiencies further erode performance.

The table below shows the accumulated reference capacity for different power generation technologies within the KE system, organized by primary energy resource type. It also details the associated utilization factors and Energy Cost for the first and second quarters of FY 2024-25, with data segmented according to each primary energy resource or fuel type.

Source	Capacity in KE System		
	Reference Capacity	Utilization Factor	Energy Cost
	MW	%	Rs. Million
Local Gas	1,426	8.3	10,920
Imported Coal	52	61.2	5,347
RLNG	2,264	28.9	136,230
RFO	379	8.2	11,163
HSD	227	0.2	305
Total Thermal	**2,418**	**34.6**	**163,965**
Solar	100	21.6	4,483
Total RE	**100**	**21.6**	**4,483**

Source: KE.

9. Challenges of Intermittency and Its Impact on Thermal Plant Efficiency in FY 2024-25:

Generating electricity from natural resources such as hydro, wind, and solar is highly beneficial, but the intermittent nature of these sources poses a major challenge for renewable energy (RE) power plants. Due to limitations like fluctuating water availability for hydropower, changing wind patterns, and inconsistent sunlight, the actual capacity factor of RE plants tends to be significantly lower than their installed or reference capacity. In the CPPA-G system for FY 2024-25, the capacity factors for RE plants were recorded as follows: 43.6% for hydropower, 23.8% for wind power, and 19.9% for solar power.

The variability in output from these RE plants, combined with fluctuations in electricity demand, often requires thermal power plants to run at partial load, which reduces their operational efficiency. This decrease in efficiency leads to an increase in the Energy Purchase Price (EPP), since more fuel is consumed to generate each unit of electricity. The following table presents the quarterly and plant-wise details of part load adjustment charges for FY 2024-25.

Partial Load Adjustment Charges (Rupees Million)

Name of Power Plant	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	2024-25
Engro Powergen Qadirpur	301	370	267	223	1161
Uch-II Power	70	392	121	332	915
Foundation Power Company Daharki	90	227	137	156	610
China Power Hub Generation Company	-	41	-	50	91
Port Qasim Electric Power Company	-	670	-	746	1416
Huaneng Shandong Ruyi Energy	-	116	-	-	116
Saif Power	222	30	44	264	560
Punjab Thermal Power	2,019	682	1,002	1,908	5611
Sapphire Electric	328	-	70	279	677
Halmore Power Generation Company	343	20	132	289	784
Orient Power Company	479	49	152	438	1118
Bhikki	3,754	1,797	3000	3,235	11786
Balloki	3,346	2,183	2,450	2,494	9248
Haveli Bahadur Shah	3229	2,603	5832	3,255	10312
Atlas Power	23	-	-	-	23
Nishat Power	-	3	-	38	41
Attock Gen.	27	3	23	42	95
Nishat Chunian	-	-	-	39	39
Narowal Energy	-	-	-	20	20
Liberty Power Tech	-	-	-	20	20
Total	**14,231**	**9,186**	**7,398**	**13,828**	**44,643**

Source: CPPA-G.

In summary, achieving an economically sustainable power sector requires thorough evaluation of the financial and economic consequences before adding new generation capacity. Simply expanding capacity without assessing its cost-effectiveness and expected utilization can result in inefficiencies such as underused assets and increased electricity costs for consumers. A balanced strategy that considers long-term financial factors—including Capacity Purchase Price (CPP), Energy Purchase Price (EPP), and overall grid stability—is crucial. This approach should ensure that generation capacity matches actual demand, optimizes the use of available resources, and incorporates flexible solutions like renewable energy alongside more cost-efficient technologies. By carefully analyzing the economic impact of each new capacity addition, the power sector can minimize unnecessary financial strain, improve efficiency, and help reduce electricity tariffs for consumers.

Annex-I
FY 2024-25
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	FY 2024-25						
			Ref. Capacity	Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
A. THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	639	-66	-
2	Guddu 747	747	721	2,355,882	1.9405	37.3	183	28,626	-
3	Engro Powergen Qadirpur	227	213	774,310	1.6603	41.6	2,562	9,111	1,162
4	Liberty Daharki Power	235	223	817,722	1.6651	41.9	3,598	21,406	-
5	Uch-II Power	404	356	2,233,470	5.6904	71.7	19,315	31,733	915
6	Foundation Power Company Daharki	179	166	1,122,635	3.3117	77.4	3,108	10,839	610
7	Uch Power	586	548	3,885,777	2.1990	81.0	6,757	53,404	-
	Total	**2,378**	**2,225**	**11,189,796**	**-**	**57.4**	**36,162**	**155,053**	**2,686**
A. THERMAL (Coal-Local)									
1	Thar Energy*	330	301	1,601,318	11.9117	60.8	39,441	26,357	-
2	Engro Powergen Thar*	660	601	3,852,910	11.3942	73.2	59,994	46,575	-
3	Thar Coal Block-1*	1,320	1,231	8,315,014	11.7602	77.1	124,633	107,017	-
4	ThalNova Power Thar*	330	301	1,778,361	11.8546	67.5	31,986	31,941	-
	Total	**2,640**	**2,433**	**15,547,602**	**-**	**72.9**	**256,054**	**211,890**	**-**
A. THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	671,654	11.7213	6.1	124,461	13,289	91
2	Lucky Electric Power Company	660	607	1,018,759	9.2206	19.2	49,413	18,969	-
3	Port Qasim Electric Power	1,320	1,243	2,751,197	10.1672	25.3	128,745	43,747	1,416
4	Huaneng Shandong Ruyi Energy	1,320	1,244	4,255,189	9.9033	39.1	111,168	79,151	116
	Total	**4,620**	**4,342**	**8,696,800**	**-**	**22.9**	**413,787**	**155,156**	**1,623**
A. THERMAL (RLNG)									
1	Rousch Pak Power	450	395	61,718	-	7.1	11,636	1,888	-
2	Fauji Kabirwala Power	170	151	68,960	-	5.2	2,671	2,204	-
3	Saif Power	225	204	234,410	1.8741	13.1	3,371	6,996	561
4	Punjab Thermal Power	1,263	1,244	1,757,268	3.4588	16.1	19,298	46,164	5,611
5	Sapphire Electric Company	235	204	268,928	1.8820	15.1	2,119	8,253	677
6	Halmore Power Generation	225	202	364,550	2.4839	20.6	5,076	10,949	784
7	Orient Power Company	225	206	459,126	2.3115	25.5	4,708	13,606	1,117
8	Nandipur	567	450	949,540	1.6131	24.1	31,147	26,016	-
9	Bhikki	1,231	1,130	6,098,150	2.8250	61.6	18,064	141,488	11,788
10	Balloki	1,276	1,169	5,479,914	2.6259	53.5	23,724	127,438	10,475
11	Haveli Bahadur Shah	1,277	1,180	6,515,649	2.6809	63.0	22,102	138,740	9,088
	Total	**7,144**	**6,536**	**22,258,214**	**-**	**38.9**	**143,916**	**523,743**	**40,101**
A. THERMAL (RFO)									
1	TPS M/Garh	1,350	1,084	0	-	0.0	2,867	481	-
2	TPS Jamshoro	880	649	0	-	0.0	759	16	-
3	Lalpir Power	362	0	0	-	0.0	2,672	0	-
4	Saba Power Company	136	0	0	-	0.0	820	0	-
5	Pak Gen Power	365	350	7,748	-	0.4	5,727	281	-
6	The Hub Power Company	1,292	1,200	15,051	-	0.6	5,968	629	-
7	Nishat Chunian Power	202	196	57,211	1.5788	3.3	4,047	-725	39
8	Narowal Energy	214	214	37,928	2.1019	2.0	4,483	762	20
9	Atlas Power	224	214	15,219	2.0982	3.2	-2,831	-248	23
10	Liberty Power Tech	202	196	77,840	1.7908	4.5	3,847	-1,615	20
11	Nishat Power	202	195	86,665	1.5699	5.1	4,006	-133	41
12	Attock Gen.	165	156	92,425	1.6851	6.8	-5,483	1,790	116
13	Kohinoor Energy	131	124	76,153	-	7.0	1,991	1,991	-
	Total	**5,725**	**4,578**	**466,239**	**-**	**1.2**	**28,873**	**3,227**	**258**
B. NUCLEAR									
1	Chashma Nuclear-II	325	300	2,268,783	6.8273	86.3	21,659	6,086	-
2	Karachi Nuclear-3	1,145	1,018	5,657,791	11.1312	63.5	164,874	14,960	-
3	Chashma Nuclear-IV	340	315	2,530,229	16.6227	91.7	46,543	5,709	-
4	Karachi Nuclear-2	1,145	1,018	7,453,415	10.4323	83.6	62,873	14,532	-
5	Chashma Nuclear-III	340	315	2,377,835	16.7044	86.2	46,777	6,175	-
6	Chashma Nuclear-I	325	300	2,164,029	6.2805	82.3	19,980	4,900	-
	Total	**3,620**	**3,265**	**22,452,082**	**-**	**78.5**	**362,706**	**52,361**	**-**

Note:
1. Jamshoro Coal Test Energy of 368.3 GWh and the corresponding EPP of Rs. 4,393.3 million on account of test energy have not been included.
2. The EPP of Habibullah Coastal (Rs. 46.4 million) and Altern (Rs. 6.2 million) has not been included.
3. KPACO energy of 52.7 GWh and its corresponding EPP of Rs. 1,749.7 million have not been included.
Notwithstanding the above, the aforesaid data have not been included in the table given above; however, the same have been considered while calculating the overall Energy and EPP figures, as mentioned in the report.
4. The capacities of Lalpir and Saba have not been included, since the plants remained non-operational during the year and their respective PPAs stood terminated on 30-Sep-2024.
5. The capacities of Rousch, HUB, Atlas, and Pakgen have been included in the yearly analysis up to the extent of their respective PPA tenures, as these plants remained operational during certain months of the year and generated energy. In this regard, the PPAs of Rousch, HUB, and Atlas were terminated on 30-Sep-2024, whereas the PPA of Pakgen was terminated on 31-Jan-2025; accordingly, their utilization factors have been assessed for the relevant period.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.

Annex-I
FY 2024-25
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	FY 2024-25				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	18,717	Rs. 5085/kW/M	12.6	504	22
2	Jinnah Hydel Power Station	WAPDA	96	36	135,654	Rs. 1798/kW/M	43.0	2,118	55
3	Chitral Hydel Power Station	WAPDA	1	1	2,136	Rs. 7241/kW/M	24.4	166	1
4	Renala	WAPDA	1	1	1,769	Rs. 5632/kW/M	20.2	121	2
5	Golen Gol	WAPDA	108	108	194,635	Rs. 3465/kW/M	20.6	10,105	304
6	Rasul Hydel Power Station	WAPDA	22	22	36,527	Rs. 1272/kW/M	19.0	499	8
7	Shadiwal Power Station	WAPDA	14	14	40,095	Rs. 1528/kW/M	32.7	386	11
8	New Bong Escape	Private	84	84	353,604	Rs. 15.055/kWh	48.1	8,111	535
9	Chichoki	WAPDA	13	13	25,047	Rs. 1451/kW/M	22.0	350	7
10	Khan Khwar Hydel Power Station	WAPDA	72	72	169,622	Rs. 2062/kW/M	26.9	2,776	48
11	Malakand-III	PEDO	84	81	254,534	Rs. 9.74/kWh	35.9	5,344	437
12	Gulpur	Private	100	100	175,654	Rs. 12991/kW/M	20.1	16,249	98
13	Nandipur Hydel Power Station	WAPDA	14	14	32,146	Rs. 1661/kW/M	26.2	455	8
14	Dargai	WAPDA	20	20	42,936	Rs. 1426/kW/M	24.5	367	8
15	Mangla Power Station	WAPDA	1,000	1,000	4,241,191	Rs. 1017/kW/M	48.4	16,377	441
16	Allai Khwar	WAPDA	121	121	318,098	Rs. 1742/kW/M	30.0	3,347	69
17	Warsak Hydel Power Plant	WAPDA	243	243	794,224	Rs. 1002/kW/M	37.3	4,181	86
18	Karot	Private	720	720	2,738,192	Rs. 8733/kW/M	43.4	101,113	2,339
19	Kurram Garhi	WAPDA	4	4	15,199	Rs. 3427/kW/M	43.4	237	8
20	Chashma Hydel Power Station	WAPDA	184	184	932,381	Rs. 1909/kW/M	57.8	5,000	190
21	Patrind	Private	147	147	550,637	Rs. 9877.5/kW/M	42.8	18,150	232
22	Duber Khwar Hydel Power Station	WAPDA	130	130	432,510	Rs. 2319/kW/M	38.0	5,362	132
23	Daral Khwar Hydro Power Station	PEDO	37	37	159,050	Rs. 8.26915/kWh	49.1	0	1,395
24	Ghazi Barotha	WAPDA	1,450	1,450	6,708,516	Rs. 911/kW/M	52.8	23,633	495
25	Suki Kinari	Private	884	883	2,109,098	Rs. 6421.25/kW/M	27.3	60,746	594
26	Jagran-I	Public	30	30	113,606	Rs. 3.83/kWh	43.2	0	426
27	Jabban Hydel Power Station	WAPDA	22	22	137,980	Rs. 2870/kW/M	71.6	808	39
28	Tarbela	WAPDA	3,478	3,478	14,085,221	Rs. 590/kW/M	46.2	45,917	567
29	NJHPC	Public	969	969	0	Rs. 9.12/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	5,154,035	Rs. 978/kW/M	41.7	32,702	645
31	Ranolia	PEDO	17	17	0	Rs. 4.1689/kWh	0.0	0	24
	Total		**11,492**	**11,428**	**39,973,015**	**-**	**39.9**	**365,124**	**9,224**

Note:

1. The EPP of Pehur (Rs. 1,079 million) has not been included in the above table; however, it has already been reflected in the total EPP as mentioned in the report.
2. Based on plant-wise data from CPPA-G, WAPDA's total Energy, CPP, and EPP for FY 2024-25 were initially assessed as 33,518.64 GWh, Rs. 155.41 billion, and Rs. 3.14 billion, respectively. Subsequently, after reconciliation, CPPA-G provided the latest accumulated figures of Energy, CPP, and EPP as 33,518.59 GWh, Rs. 180.45 billion, and Rs. 3.08 billion, respectively (without plant-wise break-up); accordingly, these reconciled figures have been considered in this report.

Annex-I
FY 2024-25
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	FY 2024-25					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	78,921	45.7263	17.1	4,370	14,161	634
2	FFC Energy Limited	50	50	76,392	13.1784	17.6	2,046	7,211	95
3	Gul Ahmed Wind Power	50	50	86,033	41.1688	19.6	4,441	13,182	532
4	Yunus Energy	50	50	84,739	35.3656	19.3	3,576	13,663	474
5	UEP Wind Power	99	99	153,041	47.3068	17.6	8,650	23,746	1,099
6	Master Wind Energy	50	50	82,342	41.1688	19.0	4,169	13,033	526
7	Three Gorges Second Wind Farm Pakistan	50	50	84,483	37.0552	19.5	3,833	14,201	521
8	Three Gorges Third Wind Farm Pakistan	50	50	86,218	37.0801	19.9	3,951	14,443	527
9	Zorlu Enerji Pakistan	56	56	98,695	19.2043	20.0	5,513	8,357	156
10	Three Gorges First Wind Farm Pakistan	50	50	85,644	17.0193	19.8	2,718	7,032	147
11	Hydrochina Dawood Power	50	50	86,198	47.2544	19.9	4,589	10,745	495
12	Sachal Energy Development	50	50	87,760	42.8204	20.2	5,980	5,027	158
13	Tenaga Generasi	50	50	89,169	43.9628	20.4	4,369	10,564	440
14	Hawa Energy	50	50	105,996	36.3527	24.3	4,579	15,737	563
15	Metro Power Company	50	50	105,356	34.6282	24.1	4,966	8,258	287
16	ACT Wind	30	30	56,121	29.7195	21.4	2,184	5,134	71
17	Jhimpir Power	50	50	107,169	36.3537	24.6	4,569	15,721	561
18	Foundation Wind Energy-I	50	50	93,252	32.9608	21.3	4,634	8,343	306
19	Liberty Wind Power-I	50	50	108,890	13.9257	24.9	1,787	17,148	234
20	DIN Energy	50	50	111,414	13.8804	25.4	2,377	17,248	237
21	Tricon Boston-C	50	50	114,328	37.2325	26.2	3,636	15,473	565
22	Tricon Boston-B	50	50	114,474	37.2074	26.3	2,509	15,234	556
23	Foundation Wind Energy-II	50	50	105,447	23.6747	24.1	4,466	8,433	216
24	Liberty Wind Power-II	50	50	111,437	13.9937	25.4	1,892	16,746	229
25	Master Green Energy	50	50	108,080	14.0051	24.7	1,833	16,688	233
26	Artistic Wind Power	50	50	118,181	15.5354	27.0	2,269	16,960	227
27	Tricon Boston-A	50	50	119,500	37.2420	27.4	8,877	14,893	527
28	Lakeside Energy Limited	50	50	123,604	13.7814	28.2	2,024	33,554	226
29	Lucky Renewables	50	50	113,955	14.4883	26.0	1,968	17,488	235
30	NASDA Green Energy	50	50	122,317	13.8086	27.9	1,931	17,610	236
31	Gul Ahmed Electric	50	50	129,545	13.8185	29.6	2,064	17,412	235
32	ACT2 DIN Wind	50	50	121,133	13.8434	27.7	1,949	15,601	227
33	Indus Wind Energy	50	50	131,952	14.0326	30.1	2,113	17,527	240
34	Zephyr Power	50	50	123,897	32.6537	28.3	5,666	10,721	327
35	Artistic Energy	50	49	145,788	20.5304	33.7	2,981	6,681	129
36	Metro Wind Power	60	60	171,908	16.7992	32.7	3,293	20,491	336
	Total	**1,848**	**1,843**	**3,843,379**	**-**	**23.8**	**132,774**	**504,465**	**12,808**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	18,005	29.0724	17.1	568	608	0
2	Quaid E Azam Solar	100	100	157,686	30.0076	18.0	6,655	21	0
3	Best Green Energy Pakistan	100	100	164,495	48.0119	18.8	7,841	95	5
4	Appolo Solar Development Pakistan	100	100	165,623	45.9293	18.9	7,550	30	1
5	Crest Energy Pakistan	100	100	167,530	48.4583	19.1	8,021	86	4
6	Harappa Solar	18	18	30,682	29.3328	19.5	947	15,179	3
7	Atlas Solar	100	100	189,529	13.1423	21.6	2,781	321	4
8	HNDS Energy	50	50	96,869	11.1397	22.1	1,334	824	7
9	Helios Power	50	50	97,506	11.2274	22.3	1,335	691	6
10	Meridian Energy	50	50	98,155	11.1397	22.4	1,350	544	4
	Total	**680**	**680**	**1,186,079**	**-**	**19.9**	**38,381**	**18,400**	**35**

Annex-I
FY 2024-25
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	FY 2024-25				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	30,009	8.9812	22.8	12	1,039
2	Chanar Energy	22	22	3,275	9.3191	1.7	-1	849
3	Thal Industries Corporation	41	22	45,109	9.0976	23.0	198	1,273
4	Almoiz Industries	36	21	22,673	9.2317	12.5	754	583
5	RYK Mills	40	40	58,593	9.5596	16.7	327	1,966
6	Chiniot Power	63	63	132,869	9.9082	24.1	1,696	3,599
7	JDW-III	27	24	183,428	7.7094	85.8	304	4,102
8	JDW-II	26	24	191,654	7.6936	89.8	264	4,691
9	Shahtaj Sugar Mills	32	22	2,760	-	1.4	0	17
	Total	**302**	**254**	**670,368**	**-**	**30.1**	**3,553**	**18,118**

Annex-I
FY 2024-25
Thermal

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	FY 2024-25			
				Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost
		MW	MW	MWh	Rs./kWh	%	Rs. Million
A. THERMAL (Gas)							
1	BQPS II	573	526	423,759	-	9.2	4,116
2	KCCP	248	227	7,703	-	0.4	91
3	BQPS I	840	730	85,452	-	1.3	1,147
4	KGTPS	107	96	12	-	0.0	0
5	SGTPS	107	96	0	-	0.0	0
6	SNPC-I	52	51	250,202	3.4153	56.0	2,693
7	SNPC-II	52	51	268,000	3.3908	60.0	2,872
	Total (Gas)	**1,979**	**1,777**	**1,035,128**	**-**	**6.6**	**10,919**
A. THERMAL (Coal-Imported)							
1	FFBL Power Company Ltd.	52	52	278,991	2.3674	61.2	5,347
	Total (Coal-Imported)	**52**	**52**	**278,991**	**-**	**61.2**	**5,347**
A. THERMAL (RLNG)							
1	BQPS-III	942	918	4,329,651	-	53.8	92,813
2	BQPS -II	573	526	1,156,785	-	25.1	38,425
3	BQPS-I	840	730	100,907	-	1.6	14,710
4	KCCP	248	227	119,329	-	6.0	15,377
5	KGTPS	107	96	4,252	-	0.5	12,283
6	SGTPS	107	96	0	-	0.0	12,180
7	ISL	19	17	10,457	-	7.0	12,275
8	Lucky	30	5	3,956	-	9.0	12,294
	Total (RLNG)	**2,866**	**2,615**	**5,725,336**	**-**	**25.0**	**210,354**
A. THERMAL (RFO)							
1	BQPS-I	840	730	199,767	-	3.1	8,634
2	Gul Ahmed Energy Ltd.	136	128	73,267	-	6.5	2,530
	Total (RFO)	**420**	**858**	**273,034**	**-**	3.6	**11,164**
A. THERMAL (HSD)							
1	KCCP	248	227	4,827	-	0.2	80
	Total (HSD)	**248**	**227**	**4,827**	**-**	0.2	**80**

Note:
- As per KE, the data provided is provisional.
- The reference capacities of power plants have been reflected in source-wise tables to assess utilization factors on the same fuel.
- The reference capacity of BQPS-I has been considered as 730 MW for assessing its utilization factor on a yearly basis, although its reference capacity has been reduced to 379 MW, as reported by KE.

Annex-I
FY 2024-25
Renewable

Sr. No	Plant Name	Inst. Capacity	Ref. Capacity	April-June, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost
		MW	MW	MWh	Rs./kWh	%	MWh	Rs. Million
B. RENEWABLE (Solar)								
1	OURSUN Pakistan Ltd.	50	50	89,675	-	20.5	0	**2,800**
2	Gharo Solar Ltd.	50	50	99,680	-	22.8	0	**1,686**
	Total (Solar)	**100**	**100**	**189,355**	**-**	**21.6**	**0**	**4,486**

Annex-I
July - September, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July-September, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	636	-66	-
2	Guddu 747	747	721	654,206	1.9400	41.1		8,224	-
3	Engro Powergen Qadirpur	227	212	212,522	1.6625	45.4	1,095	2,399	301
4	Liberty Daharki Power	235	212	327,396	-	69.9	1,254	9,116	-
5	Uch-II Power	404	372	585,187	6.6100	71.2	5,545	9,612	69
6	Foundation Power Company Daharki	179	168	296,077	2.2010	79.8	1,002	2,926	90
7	Uch Power	586	547	1,013,370	-	83.9	1,954	13,807	-
	Total	**2,378**	**2,232**	**3,088,758**	**-**	**62.7**	**11,487**	**46,017**	**461**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	404,676	12.16*	61.1	15,618	5,290	-
2	Engro Powergen Thar	660	603	975,329	11.56*	73.3	15,664	14,775	-
3	Thar Coal Block-1	1,320	1,230	2,159,215	12.00*	79.5	32,507	23,502	-
4	ThalNova Power Thar	330	303	533,396	12.11*	79.7	8,339	5,666	-
	Total	**2,640**	**2,436**	**4,072,616**	**-**	**75.7**	**72,129**	**49,232**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	140,782	11.7266	5.1	30,455	1,190	-
2	Lucky Electric Power Company	660	605	486,079	10.1336	36.4	13,504	9,573	-
3	Port Qasim Electric Power	1,320	1,243	1,133,050	10.4942	41.3	43,163	18,854	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	1,206,775	10.1320	43.9	27,684	23,411	-
	Total	**4,620**	**4,341**	**2,966,686**	**-**	**31.0**	**114,806**	**53,027**	**-**
THERMAL (RLNG)									
1	Rousch Pak Power	450	395	61,633	-	7.1	2,841	1,906	-
2	Fauji Kabirwala Power	170	151	36,459	-	10.9	760	1,218	-
3	Saif Power	225	204	100,409	1.8630	22.3	1,211	3,120	222
4	Punjab Thermal Power	1,263	1,243	661,389	3.4588	24.1	3,947	18,343	2,019
5	Sapphire Electric Company	235	202	138,461	1.8711	31.0	1,659	4,606	328
6	Halmore Power Generation	225	200	178,264	2.4716	40.4	1,167	5,257	344
7	Orient Power Company	225	203	186,928	2.2944	41.7	1,179	5,895	478
8	Nandipur	567	500	488,274	0.8200	44.2	2,328	13,858	-
9	Bhikki	1,231	1,163	1,654,263	3.0615	64.4	-7,356	42,332	3,754
10	Balloki	1,276	1,165	1,662,592	2.7988	64.6	7,163	42,241	3,347
11	Haveli Bahadur Shah	1,277	1,172	1,975,666	2.8577	76.3	7,154	49,344	3,229
	Total	**7,144**	**6,598**	**7,144,336**	**-**	**49.0**	**22,054**	**188,121**	**13,721**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	1,065	0	-
2	TPS Jamshoro	880	300	0	-	0.0	205	0	-
3	Lalpir Power	362	350	0	-	0.0	2,672	0	-
4	Saba Power Company	136	125	0	-	0.0	820	0	-
5	Pak Gen Power	365	350	1,809	-	0.2	2,548	65	-
6	The Hub Power Company	1,292	1,200	15,051	-	0.6	7,937	439	-
7	Nishat Chunian Power	202	196	8,054	1.9991	1.9	972	334	-
8	Narowal Energy	214	214	9,366	2.6080	2.0	1,298	405	-
9	Atlas Power	224	214	15,219	2.0982	3.2	1,113	626	23
10	Liberty Power Tech	202	196	23,596	2.2222	5.5	1,261	900	-
11	Nishat Power	202	195	28,408	1.9767	6.6	935	1,169	-
12	Attock Gen.	165	156	22,727	2.0730	6.6	949	803	27
13	Kohinoor Energy	131	124	22,716	-	8.3	614	733	-
	Total	**5,725**	**4,070**	**146,946**	**-**	**1.6**	**22,390**	**5,473**	**50**
NUCLEAR									
1	Chashma Nuclear-II	325	315	259,608	-	37.3	4,846	540	-
2	Karachi Nuclear-3	1,145	1,040	1,617,236	11.1978	70.4	72,428	5,652	-
3	Chashma Nuclear-IV	340	315	570,103	16.5500	82.0	11,646	966	-
4	Karachi Nuclear-2	1,145	1,040	2,022,683	10.5200	88.1	-6,517	2,217	-
5	Chashma Nuclear-III	340	315	654,939	16.6300	94.2	11,710	1,127	-
6	Chashma Nuclear-I	325	301	649,124	6.1279	97.7	5,073	931	-
	Total	**3,620**	**3,326**	**5,773,693**	**-**	**78.6**	**99,186**	**11,432**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
July, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	-77	0	-
2	Guddu 747	747	721	276,301	1.9400	51.5		3,648	-
3	Engro Powergen Qadirpur	227	212	67,898	1.6625	43.0	441	788	112
4	Liberty Daharki Power	235	212	118,987	-	75.4	418	3,334	-
5	Uch-II Power	404	372	221,737	6.6100	80.1	1,882	3,652	19
6	Foundation Power Company Daharki	179	168	101,729	2.2010	81.4	417	994	19
7	Uch Power	586	547	363,803	-	89.4	682	4,910	-
	Total	**2,378**	**2,232**	**1,150,455**	**-**	**69.3**	**3,762**	**17,326**	**150**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	190,373	12.16*	85.3	824	2,163	-
2	Engro Powergen Thar	660	603	383,508	11.56*	85.5	5,128	4,663	-
3	Thar Coal Block-1	1,320	1,230	738,297	12.00*	80.7	10,939	8,758	-
4	ThalNova Power Thar	330	303	193,671	12.11*	85.9	826	2,207	-
	Total	**2,640**	**2,436**	**1,505,849**	**-**	**83.1**	**17,718**	**17,791**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	62,362	11.7266	6.7	9,623	164	-
2	Lucky Electric Power Company	660	605	43,383	10.1336	9.6	6,216	3,287	-
3	Port Qasim Electric Power	1,320	1,243	566,105	10.4942	61.2	9,966	9,861	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	465,127	10.1320	50.3	9,236	8,629	-
	Total	**4,620**	**4,341**	**1,136,976**	**-**	**35.2**	**35,041**	**21,941**	**-**
THERMAL (RLNG)									
1	Rousch Pak Power	450	395	44,350	-	15.1	947	1,432	-
2	Fauji Kabirwala Power	170	151	29,650	-	26.4	253	981	-
3	Saif Power	225	204	46,034	1.8630	30.3	533	1,548	128
4	Punjab Thermal Power	1,263	1,243	480,056	3.4588	51.9	3,925	13,236	1,100
5	Sapphire Electric Company	235	202	72,685	1.8711	48.4	591	2,592	209
6	Halmore Power Generation	225	200	85,876	2.4716	57.7	419	2,604	158
7	Orient Power Company	225	203	91,680	2.2944	60.7	461	3,135	226
8	Nandipur	567	500	236,514	0.8200	63.6	751	6,632	-
9	Bhikki	1,231	1,163	604,700	3.0615	69.9	-13,279	17,109	1,293
10	Balloki	1,276	1,165	613,836	2.7988	70.8	2,491	17,189	1,251
11	Haveli Bahadur Shah	1,277	1,172	694,005	2.8577	79.6	2,303	19,120	888
	Total	**7,144**	**6,598**	**2,999,386**	**-**	**61.1**	**-605**	**85,579**	**5,253**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	255	0	-
2	TPS Jamshoro	880	300	0	-	0.0	284	0	-
3	Lalpir Power	362	350	0	-	0.0	783	0	-
4	Saba Power Company	136	125	0	-	0.0	273	0	-
5	Pak Gen Power	365	350	1,809	-	0.7	790	65	-
6	The Hub Power Company	1,292	1,200	0	-	0.0	2,603	0	-
7	Nishat Chunian Power	202	196	7,627	1.9991	5.2	304	318	-
8	Narowal Energy	214	214	7,609	2.6080	4.8	0	341	-
9	Atlas Power	224	214	10,883	2.0982	6.8	552	470	23
10	Liberty Power Tech	202	196	19,674	2.2222	13.5	424	763	-
11	Nishat Power	202	195	22,604	1.9767	15.6	408	975	-
12	Attock Gen.	165	156	15,174	2.0730	13.1	327	568	18
13	Kohinoor Energy	131	124	16,718	-	18.1	205	538	-
	Total	**5,725**	**4,070**	**102,097**	**-**	**3.4**	**7,208**	**4,037**	**41**
NUCLEAR									
1	Chashma Nuclear-II	325	315	0	-	0.0	1,505	0	-
2	Karachi Nuclear-3	1,145	1,040	761,474	11.1978	98.4	6,193	1,186	-
3	Chashma Nuclear-IV	340	315	124,525	16.5500	53.1	3,869	211	-
4	Karachi Nuclear-2	1,145	1,040	650,908	10.5200	84.1	-22,331	830	-
5	Chashma Nuclear-III	340	315	229,678	16.6300	98.0	3,989	395	-
6	Chashma Nuclear-I	325	301	221,131	6.1279	98.7	1,733	317	-
	Total	**3,620**	**3,326**	**1,987,716**	**-**	**80.3**	**-5,041**	**2,940**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
August, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	August, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	-2,455	-66	-
2	Guddu 747	747	721	233,954	1.9400	43.6		2,851	-
3	Engro Powergen Qadirpur	227	212	73,512	1.6625	46.6	396	811	96
4	Liberty Daharki Power	235	212	89,414	-	56.7	418	2,586	-
5	Uch-II Power	404	372	159,023	6.6100	57.5	1,818	3,504	24
6	Foundation Power Company Daharki	179	168	95,029	2.2010	76.0	342	950	41
7	Uch Power	586	547	299,274	-	73.5	646	4,146	-
	Total	**2,378**	**2,232**	**950,206**	**-**	**57.2**	**1,165**	**14,782**	**161**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	169,277	12.16*	75.8	13,449	2,474	-
2	Engro Powergen Thar	660	603	350,532	11.56*	78.1	5,433	5,968	-
3	Thar Coal Block-1	1,320	1,230	625,950	12.00*	68.4	10,376	9,422	-
4	ThalNova Power Thar	330	303	159,784	12.11*	70.9	6,128	2,467	-
	Total	**2,640**	**2,436**	**1,305,544**	**-**	**72.0**	**35,385**	**20,330**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	0	11.7266	0.0	10,659	122	-
2	Lucky Electric Power Company	660	605	216,921	10.1336	48.2	4,470	2,944	-
3	Port Qasim Electric Power	1,320	1,243	118,476	10.4942	12.8	23,459	1,990	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	345,412	10.1320	37.3	9,160	7,463	-
	Total	**4,620**	**4,341**	**680,809**	**-**	**21.1**	**47,748**	**12,519**	**-**
THERMAL (RLNG)									
1	Rousch Pak Power	450	395	1,874	-	0.6	947	74	-
2	Fauji Kabirwala Power	170	151	5,392	-	4.8	254	188	-
3	Saif Power	225	204	13,082	1.8630	8.6	371	402	35
4	Punjab Thermal Power	1,263	1,243	145,837	3.4588	15.8	2,457	4,258	716
5	Sapphire Electric Company	235	202	17,799	1.8711	11.8	361	551	53
6	Halmore Power Generation	225	200	61,166	2.4716	41.1	354	1,807	112
7	Orient Power Company	225	203	45,970	2.2944	30.4	467	1,431	172
8	Nandipur	567	500	142,269	0.8200	38.2	872	4,105	-
9	Bhikki	1,231	1,163	501,349	3.0615	57.9	3,318	10,927	1,304
10	Balloki	1,276	1,165	506,887	2.7988	58.5	2,279	11,398	1,149
11	Haveli Bahadur Shah	1,277	1,172	664,071	2.8577	76.2	2,315	14,531	1,356
	Total	**7,144**	**6,598**	**2,105,694**	**-**	**42.9**	**13,995**	**49,672**	**4,898**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	512	0	-
2	TPS Jamshoro	880	300	0	-	0.0	-284	0	-
3	Lalpir Power	362	350	0	-	0.0	728	0	-
4	Saba Power Company	136	125	0	-	0.0	273	0	-
5	Pak Gen Power	365	350	0	-	0.0	728	0	-
6	The Hub Power Company	1,292	1,200	0	-	0.0	2,604	0	-
7	Nishat Chunian Power	202	196	0	1.9991	0.0	347	0	-
8	Narowal Energy	214	214	416	2.6080	0.3	1,028	15	-
9	Atlas Power	224	214	0	2.0982	0.0	341	0	-
10	Liberty Power Tech	202	196	2,284	2.2222	1.6	426	1,858	-
11	Nishat Power	202	195	942	1.9767	0.6	317	31	-
12	Attock Gen.	165	156	723	2.0730	0.6	413	24	-
13	Kohinoor Energy	131	124	1,299	-	1.4	205	42	-
	Total	**5,725**	**4,070**	**5,663**	**-**	**0.2**	**7,637**	**1,969**	**-**
NUCLEAR									
1	Chashma Nuclear-II	325	315	36,334	-	15.5	1,505	76	-
2	Karachi Nuclear-3	1,145	1,040	762,079	11.1978	98.5	20,361	4,319	-
3	Chashma Nuclear-IV	340	315	221,664	16.5500	94.6	3,926	375	-
4	Karachi Nuclear-2	1,145	1,040	731,685	10.5200	94.6	4,177	353	-
5	Chashma Nuclear-III	340	315	223,974	16.6300	95.6	3,958	385	-
6	Chashma Nuclear-I	325	301	214,569	6.1279	95.8	1,668	308	-
	Total	**3,620**	**3,326**	**2,190,305**	**-**	**88.5**	**35,596**	**5,816**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
September, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	September, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	3,168	0	-
2	Guddu 747	747	721	143,951	1.9400	27.7		1,725	-
3	Engro Powergen Qadirpur	227	212	71,111	1.6625	46.6	259	800	93
4	Liberty Daharki Power	235	212	118,996	-	78.0	418	3,195	-
5	Uch-II Power	404	372	204,427	6.6100	76.3	1,845	2,457	27
6	Foundation Power Company Daharki	179	168	99,319	2.2010	82.1	243	982	30
7	Uch Power	586	547	350,293	-	88.9	626	4,750	-
	Total	**2,378**	**2,232**	**988,097**	**-**	**61.5**	**6,559**	**13,909**	**150**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	45,026	12.16*	20.8	1,345	654	-
2	Engro Powergen Thar	660	603	241,289	11.56*	55.6	5,102	4,144	-
3	Thar Coal Block-1	1,320	1,230	794,968	12.00*	89.8	11,192	5,322	-
4	ThalNova Power Thar	330	303	179,941	12.11*	82.5	1,385	991	-
	Total	**2,640**	**2,436**	**1,261,223**	**-**	**71.9**	**19,025**	**11,110**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	78,420	11.7266	8.7	10,173	904	-
2	Lucky Electric Power Company	660	605	225,776	10.1336	51.8	2,818	3,342	-
3	Port Qasim Electric Power	1,320	1,243	448,469	10.4942	50.1	9,738	7,003	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	396,236	10.1320	44.2	9,288	7,318	-
	Total	**4,620**	**4,341**	**1,148,901**	**-**	**36.8**	**32,017**	**18,568**	**-**
THERMAL (RLNG)									
1	Rousch Pak Power	450	395	15,409	-	5.4	947	401	-
2	Fauji Kabirwala Power	170	151	1,416	-	1.3	254	49	-
3	Saif Power	225	204	41,292	1.8630	28.1	307	1,169	59
4	Punjab Thermal Power	1,263	1,243	35,496	3.4588	4.0	-2,436	849	203
5	Sapphire Electric Company	235	202	47,976	1.8711	33.0	707	1,463	66
6	Halmore Power Generation	225	200	31,222	2.4716	21.7	394	846	73
7	Orient Power Company	225	203	49,278	2.2944	33.7	251	1,329	81
8	Nandipur	567	500	109,491	0.8200	30.4	705	3,121	-
9	Bhikki	1,231	1,163	548,215	3.0615	65.5	2,605	14,296	1,157
10	Balloki	1,276	1,165	541,869	2.7988	64.6	2,393	13,654	946
11	Haveli Bahadur Shah	1,277	1,172	617,591	2.8577	73.2	2,536	15,693	985
	Total	**7,144**	**6,598**	**2,039,256**	**-**	**42.9**	**8,664**	**52,870**	**3,570**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	298	0	-
2	TPS Jamshoro	880	300	0	-	0.0	205	0	-
3	Lalpir Power	362	350	0	-	0.0	1,161	0	-
4	Saba Power Company	136	125	0	-	0.0	273	0	-
5	Pak Gen Power	365	350	0	-	0.0	1,030	0	-
6	The Hub Power Company	1,292	1,200	15,051	-	1.7	2,730	439	-
7	Nishat Chunian Power	202	196	428	1.9991	0.3	321	16	-
8	Narowal Energy	214	214	1,341	2.6080	0.9	271	50	-
9	Atlas Power	224	214	4,337	2.0982	2.8	221	156	-
10	Liberty Power Tech	202	196	1,638	2.2222	1.2	412	-1,721	-
11	Nishat Power	202	195	4,863	1.9767	3.5	211	163	-
12	Attock Gen.	165	156	6,829	2.0730	6.1	209	211	9
13	Kohinoor Energy	131	124	4,699	-	5.3	205	153	-
	Total	**5,725**	**4,070**	**39,185**	**-**	**1.3**	**7,545**	**-533**	**9**
NUCLEAR									
1	Chashma Nuclear-II	325	315	223,274	-	98.4	1,835	464	-
2	Karachi Nuclear-3	1,145	1,040	93,683	11.1978	12.5	45,874	146	-
3	Chashma Nuclear-IV	340	315	223,914	16.5500	98.7	3,851	379	-
4	Karachi Nuclear-2	1,145	1,040	640,090	10.5200	85.5	11,637	1,034	-
5	Chashma Nuclear-III	340	315	201,287	16.6300	88.8	3,763	346	-
6	Chashma Nuclear-I	325	301	213,424	6.1279	98.5	1,672	306	-
	Total	**3,620**	**3,326**	**1,595,672**	**-**	**66.6**	**68,631**	**2,676**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
July - Septemebr, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	July-September, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	3,007	Rs. 5085/kW/M	8.0	115	3
2	Jinnah Hydel Power Station	WAPDA	96	36	25,591	Rs. 1798/kW/M	32.2	499	9
3	Chitral Hydel Power Station	WAPDA	1	1	473	Rs. 7241/kW/M	21.4	32	1
4	Renala	WAPDA	1	1	546	Rs. 5632/kW/M	24.7	24	1
5	Golen Gol	WAPDA	108	108	64,411	Rs. 3465/kW/M	27.0	2,141	96
6	Rasul Hydel Power Station	WAPDA	22	22	14,368	Rs. 1272/kW/M	29.6	123	3
7	Shadiwal Power Station	WAPDA	14	14	9,110	Rs. 1528/kW/M	29.5	88	2
8	New Bong Escape	Private	84	84	59,478	Rs.14.82/kWh	32.1	1,587	1,747
9	Chichoki	WAPDA	13	13	9,614	Rs. 1451/kW/M	33.5	84	2
10	Khan Khwar Hydel Power Station	WAPDA	72	72	60,468	Rs. 2062/kW/M	38.0	673	16
11	Malakand-III	PEDO	84	81	71,201	Rs.9.32/kWh	39.8	1,440	139
12	Gulpur	Private	100	100	92,374	Rs. 13287/kW/M	41.8	4,177	50
13	Nandipur Hydel Power Station	WAPDA	14	14	12,826	Rs. 1661/kW/M	41.5	107	3
14	Dargai	WAPDA	20	20	19,154	Rs. 1426/kW/M	43.4	134	3
15	Mangla Power Station	WAPDA	1,000	1,000	1,003,133	Rs.1017/kW/M	45.4	4,104	94
16	Allai Khwar	WAPDA	121	121	122,525	Rs.1742/kW/M	45.9	906	27
17	Warsak Hydel Power Plant	WAPDA	243	243	264,408	Rs. 1002/kW/M	49.3	1,210	29
18	Karot	Private	720	720	889,251	Rs. 8284/kW/M	55.9	29,679	841
19	Kurram Garhi	WAPDA	4	4	4,967	Rs. 3427/kW/M	56.2	54	2
20	Chashma Hydel Power Station	WAPDA	184	184	246,486	Rs. 1909/kW/M	60.7	1,330	49
21	Patrind	Private	147	147	205,493	Rs. 10094/kW/M	63.3	1,269	40
22	Duber Khwar Hydel Power Station	WAPDA	130	130	188,796	Rs. 2319/kW/M	65.8	1,388	53
23	Daral Khwar Hydro Power Station	PEDO	37	37	53,390	Rs. 8.2683/kWh	65.4	0	415
24	Ghazi Barotha	WAPDA	1,450	1,450	2,156,470	Rs. 911/kW/M	67.4	7,323	162
25	Suki Kinari	Private	884	883	255,312	Rs. 5662/kW/M	75.3	0	0
26	Jagran-I	Public	30	30	47,456	Rs. 3.5418/kWh	71.6	0	226
27	Jabban Hydel Power Station	WAPDA	22	22	40,517	Rs. 2870/kW/M	83.4	240	11
28	Tarbela	WAPDA	3,478	3,478	6,874,203	Rs. 590/kW/M	89.5	17,329	281
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	2,745,742	Rs. 978/kW/M	88.2	9,977	348
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**15,540,768**	**-**	**61.6**	**86,033**	**4,651**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G:
i. CPP includes other payment as well.
ii. The actual CPP of WAPDA HPPs billed to DISCOs for the said period after the previous quarter DN is approximately Rs. 44,077 million.
iii. CPP of Karot HPP for July, 24 includes differential invoices for the period Dec, 23 to June, 24 as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been provided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
July, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	July, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	1,083	Rs. 5085/kW/M	8.6	28	1
2	Jinnah Hydel Power Station	WAPDA	96	36	11,956	Rs. 1798/kW/M	44.6	123	3
3	Chitral Hydel Power Station	WAPDA	1	1	83	Rs. 7241/kW/M	11.1	2	0
4	Renala	WAPDA	1	1	166	Rs. 5632/kW/M	22.3	2	0
5	Golen Gol	WAPDA	108	108	5,266	Rs. 3465/kW/M	6.6	270	2
6	Rasul Hydel Power Station	WAPDA	22	22	6,390	Rs. 1272/kW/M	39.0	27	1
7	Shadiwal Power Station	WAPDA	14	14	2,919	Rs. 1528/kW/M	28.0	14	1
8	New Bong Escape	Private	84	84	19,294	Rs.14.82/kWh	30.9	1,031	170
9	Chichoki	WAPDA	13	13	3,443	Rs. 1451/kW/M	35.6	15	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	21,241	Rs. 2062/kW/M	39.7	138	4
11	Malakand-III	PEDO	84	81	47,454	Rs.9.32/kWh	78.7	1,174	118
12	Gulpur	Private	100	100	20,726	Rs. 13287/kW/M	27.9	2,889	27
13	Nandipur Hydel Power Station	WAPDA	14	14	4,273	Rs. 1661/kW/M	41.0	16	1
14	Dargai	WAPDA	20	20	6,738	Rs. 1426/kW/M	45.3	24	1
15	Mangla Power Station	WAPDA	1,000	1,000	326,584	Rs.1017/kW/M	43.9	766	22
16	Allai Khwar	WAPDA	121	121	40,892	Rs.1742/kW/M	45.4	228	9
17	Warsak Hydel Power Plant	WAPDA	243	243	87,815	Rs. 1002/kW/M	48.6	279	9
18	Karot	Private	720	720	382,068	Rs. 8284/kW/M	71.3	25,279	664
19	Kurram Garhi	WAPDA	4	4	1,579	Rs. 3427/kW/M	53.1	9	0
20	Chashma Hydel Power Station	WAPDA	184	184	89,929	Rs. 1909/kW/M	65.7	345	17
21	Patrind	Private	147	147	78,919	Rs. 10094/kW/M	72.2	1,502	56
22	Duber Khwar Hydel Power Station	WAPDA	130	130	77,053	Rs. 2319/kW/M	79.7	315	17
23	Daral Khwar Hydro Power Station	PEDO	37	37	26,720	Rs. 8.2683/kWh	97.1	0	212
24	Ghazi Barotha	WAPDA	1,450	1,450	724,255	Rs. 911/kW/M	67.1	1,928	57
25	Suki Kinari	Private	884	883	0	Rs. 5662/kW/M	0.0	0	0
26	Jagran-I	Public	30	30	17,894	Rs. 3.5418/kWh	80.2	0	64
27	Jabban Hydel Power Station	WAPDA	22	22	13,918	Rs. 2870/kW/M	85.0	79	4
28	Tarbela	WAPDA	3,478	3,478	2,392,910	Rs. 590/kW/M	92.5	4,112	103
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	929,660	Rs. 978/kW/M	88.6	2,130	125
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**5,341,225**	**-**	**62.8**	**42,725**	**1,687**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G:
i. CPP includes other payment as well.
ii. The actual CPP of WAPDA HPPs billed to DISCOs for the said period after the previous quarter DN is approximately Rs. 44,077 million.
iii. CPP of Karot HPP for July, 24 includes differential invoices for the period Dec, 23 to June, 24 as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been provided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
August, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	August, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	105	Rs. 5085/kW/M	0.8	42	0
2	Jinnah Hydel Power Station	WAPDA	96	36	7,325	Rs. 1798/kW/M	27.3	189	3
3	Chitral Hydel Power Station	WAPDA	1	1	217	Rs. 7241/kW/M	29.2	15	0
4	Renala	WAPDA	1	1	199	Rs. 5632/kW/M	26.8	11	0
5	Golen Gol	WAPDA	108	108	31,870	Rs. 3465/kW/M	39.7	939	51
6	Rasul Hydel Power Station	WAPDA	22	22	4,631	Rs. 1272/kW/M	28.3	49	1
7	Shadiwal Power Station	WAPDA	14	14	3,052	Rs. 1528/kW/M	29.3	37	1
8	New Bong Escape	Private	84	84	5,407	Rs.14.82/kWh	8.7	512	37
9	Chichoki	WAPDA	13	13	3,305	Rs. 1451/kW/M	34.2	35	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	28,898	Rs. 2062/kW/M	53.9	282	8
11	Malakand-III	PEDO	84	81	23,747	Rs.9.32/kWh	39.4	136	11
12	Gulpur	Private	100	100	43,921	Rs. 13287/kW/M	59.0	644	9
13	Nandipur Hydel Power Station	WAPDA	14	14	4,566	Rs. 1661/kW/M	43.8	46	1
14	Dargai	WAPDA	20	20	6,000	Rs. 1426/kW/M	40.3	55	1
15	Mangla Power Station	WAPDA	1,000	1,000	185,284	Rs.1017/kW/M	24.9	1,500	20
16	Allai Khwar	WAPDA	121	121	50,053	Rs.1742/kW/M	55.6	353	11
17	Warsak Hydel Power Plant	WAPDA	243	243	90,697	Rs. 1002/kW/M	50.2	469	10
18	Karot	Private	720	720	280,143	Rs. 8284/kW/M	52.3	2,200	100
19	Kurram Garhi	WAPDA	4	4	1,733	Rs. 3427/kW/M	58.2	23	1
20	Chashma Hydel Power Station	WAPDA	184	184	54,116	Rs. 1909/kW/M	39.5	457	11
21	Patrind	Private	147	147	78,717	Rs. 10094/kW/M	72.0	-780	4
22	Duber Khwar Hydel Power Station	WAPDA	130	130	66,610	Rs. 2319/kW/M	68.9	553	22
23	Daral Khwar Hydro Power Station	PEDO	37	37	16,557	Rs. 8.2683/kWh	60.1	0	119
24	Ghazi Barotha	WAPDA	1,450	1,450	713,101	Rs. 911/kW/M	66.1	2,693	52
25	Suki Kinari	Private	884	883	37,755	Rs. 5662/kW/M	5.7	0	0
26	Jagran-I	Public	30	30	14,483	Rs. 3.5418/kWh	64.9	0	55
27	Jabban Hydel Power Station	WAPDA	22	22	13,316	Rs. 2870/kW/M	81.4	81	4
28	Tarbela	WAPDA	3,478	3,478	2,566,842	Rs. 590/kW/M	99.2	7,115	102
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	1,028,913	Rs. 978/kW/M	98.1	4,111	127
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**5,361,563**	**-**	**63.1**	**21,767**	**761**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G:
i. CPP includes other payment as well.
ii. The actual CPP of WAPDA HPPs billed to DISCOs for the said period after the previous quarter DN is approximately Rs. 44,077 million.
iii. CPP of Karot HPP for July, 24 includes differential invoices for the period Dec, 23 to June, 24 as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been provided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
September, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	September, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	1,819	Rs. 5085/kW/M	14.9	45	2
2	Jinnah Hydel Power Station	WAPDA	96	36	6,310	Rs. 1798/kW/M	24.3	187	3
3	Chitral Hydel Power Station	WAPDA	1	1	173	Rs. 7241/kW/M	24.0	15	0
4	Renala	WAPDA	1	1	181	Rs. 5632/kW/M	25.1	11	0
5	Golen Gol	WAPDA	108	108	27,276	Rs. 3465/kW/M	35.1	932	44
6	Rasul Hydel Power Station	WAPDA	22	22	3,348	Rs. 1272/kW/M	21.1	47	1
7	Shadiwal Power Station	WAPDA	14	14	3,140	Rs. 1528/kW/M	31.1	37	1
8	New Bong Escape	Private	84	84	34,778	Rs.14.82/kWh	57.5	44	1,540
9	Chichoki	WAPDA	13	13	2,866	Rs. 1451/kW/M	30.6	34	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	10,329	Rs. 2062/kW/M	19.9	253	3
11	Malakand-III	PEDO	84	81	0	Rs.9.32/kWh	0.0	130	10
12	Gulpur	Private	100	100	27,727	Rs. 13287/kW/M	38.5	644	14
13	Nandipur Hydel Power Station	WAPDA	14	14	3,988	Rs. 1661/kW/M	39.6	45	1
14	Dargai	WAPDA	20	20	6,417	Rs. 1426/kW/M	44.6	55	1
15	Mangla Power Station	WAPDA	1,000	1,000	491,265	Rs.1017/kW/M	68.2	1,838	53
16	Allai Khwar	WAPDA	121	121	31,580	Rs.1742/kW/M	36.2	325	7
17	Warsak Hydel Power Plant	WAPDA	243	243	85,896	Rs. 1002/kW/M	49.1	462	9
18	Karot	Private	720	720	227,041	Rs. 8284/kW/M	43.8	2,200	77
19	Kurram Garhi	WAPDA	4	4	1,655	Rs. 3427/kW/M	57.4	22	1
20	Chashma Hydel Power Station	WAPDA	184	184	102,441	Rs. 1909/kW/M	77.3	528	21
21	Patrind	Private	147	147	47,857	Rs. 10094/kW/M	45.2	547	-20
22	Duber Khwar Hydel Power Station	WAPDA	130	130	45,133	Rs. 2319/kW/M	48.2	520	15
23	Daral Khwar Hydro Power Station	PEDO	37	37	10,112	Rs. 8.2683/kWh	38.0	0	84
24	Ghazi Barotha	WAPDA	1,450	1,450	719,114	Rs. 911/kW/M	68.9	2,702	53
25	Suki Kinari	Private	884	883	217,557	Rs. 5662/kW/M	64.2	0	0
26	Jagran-I	Public	30	30	15,079	Rs. 3.5418/kWh	69.8	0	107
27	Jabban Hydel Power Station	WAPDA	22	22	13,283	Rs. 2870/kW/M	83.9	80	4
28	Tarbela	WAPDA	3,478	3,478	1,914,451	Rs. 590/kW/M	76.5	6,102	76
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	787,169	Rs. 978/kW/M	77.5	3,736	97
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**4,837,981**	**-**	**58.8**	**21,541**	**2,203**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G:
i. CPP includes other payment as well.
ii. The actual CPP of WAPDA HPPs billed to DISCOs for the said period after the previous quarter DN is approximately Rs. 44,077 million.
iii. CPP of Karot HPP for July, 24 includes differential invoices for the period Dec, 23 to June, 24 as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been provided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
July - September, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July-September, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	23,581	46.2200	20.2	1,321	4,846	210
2	FFC Energy Limited	50	50	24,205	13.0727	22.1	620	3,003	37
3	Gul Ahmed Wind Power	50	50	24,499	42.1570	22.2	1,305	4,647	184
4	Yunus Energy	50	50	24,570	36.5847	22.3	1,171	4,910	168
5	UEP Wind Power	99	99	50,432	47.9490	23.1	2,855	9,120	410
6	Master Wind Energy	50	50	25,495	42.1570	23.3	1,278	4,844	192
7	Three Gorges Second Wind Farm Pakistan	50	50	25,914	37.6300	23.7	1,162	4,967	177
8	Three Gorges Third Wind Farm Pakistan	50	50	26,880	37.6300	24.6	1,175	5,045	179
9	Zorlu Enerji Pakistan	56	56	32,391	19.1090	26.0	3,500	3,030	53
10	Three Gorges First Wind Farm Pakistan	50	50	28,824	16.9200	26.4	989	3,945	66
11	Hydrochina Dawood Power	50	50	28,955	47.9490	26.5	1,498	4,064	180
12	Sachal Energy Development	50	50	29,458	43.8000	27.0	2,321	0	0
13	Tenaga Generasi	50	50	29,980	44.7724	27.2	1,560	4,873	191
14	Hawa Energy	50	50	31,793	36.9500	29.0	1,382	5,652	198
15	Metro Power Company	50	50	32,015	35.0000	29.0	1,955	3,945	135
16	ACT Wind	30	30	19,972	31.0780	30.2	691	1,416	44
17	Jhimpir Power	50	50	33,288	36.9540	30.3	1,438	5,659	197
18	Foundation Wind Energy-I	50	50	33,542	40.4283	30.4	2,588	3,923	151
19	Liberty Wind Power-I	50	50	35,191	14.0000	31.9	595	6,530	87
20	DIN Energy	50	50	35,360	14.0000	32.0	598	6,492	86
21	Tricon Boston-C	50	50	35,319	38.0000	32.2	0	5,591	199
22	Tricon Boston-B	50	50	35,967	37.8998	32.8	0	5,538	197
23	Foundation Wind Energy-II	50	50	36,420	30.3450	33.0	1,991	3,878	116
24	Liberty Wind Power-II	50	50	36,434	14.2721	33.0	612	6,456	86
25	Master Green Energy	50	50	36,479	14.2730	33.0	627	6,695	92
26	Artistic Wind Power	50	50	37,723	20.9122	34.2	617	6,583	87
27	Tricon Boston-A	50	50	37,980	37.8998	34.6	4,716	5,477	178
28	Lakeside Energy Limited	50	50	38,626	14.0620	35.0	624	5,830	75
29	Lucky Renewables	50	50	38,703	14.7535	35.1	739	6,754	93
30	NASDA Green Energy	50	50	39,387	14.0800	35.7	646	6,584	87
31	Gul Ahmed Electric	50	50	39,930	14.0910	36.2	577	6,634	87
32	ACT2 DIN Wind	50	50	40,150	14.1447	36.4	662	5,517	88
33	Indus Wind Energy	50	50	40,956	14.3375	37.1	681	6,563	87
34	Zephyr Power	50	50	43,781	33.8858	39.7	1,790	4,631	129
35	Artistic Energy	50	49	46,999	20.9122	43.1	1,144	2,842	59
36	Metro Wind Power	60	60	57,504	17.3200	43.4	1,131	7,771	125
	Total	**1,848**	**1,843**	**1,238,707**	**-**	**30.4**	**46,562**	**184,258**	**4,727**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	4,698	29.2992	17.7	138	13	0.4
2	Quaid E Azam Solar	100	100	40,262	30.7328	18.2	1,496	21	0.5
3	Best Green Energy Pakistan	100	100	42,295	48.6202	19.2	1,962	0	0.0
4	Appolo Solar Development Pakistan	100	100	42,672	46.2197	19.3	1,974	30	1.4
5	Crest Energy Pakistan	100	100	43,307	48.9852	19.6	1,988	8	0.3
6	Harappa Solar	18	18	8,810	29.5600	22.2	256	7	0.2
7	Atlas Solar	100	100	50,217	14.2411	22.7	864	0	0.0
8	HNDS Energy	50	50	27,007	-	24.5	188	237	1.3
9	Helios Power	50	50	27,223	11.4322	24.7	190	236	1.3
10	Meridian Energy	50	50	27,305	-	24.7	192	237	1.3
	Total	**680**	**680**	**313,796**	**-**	**20.9**	**9,248**	**790**	**7**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
July, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	9,379	46.2200	23.9	475	848	39
2	FFC Energy Limited	50	50	8,675	13.0727	23.6	486	301	4
3	Gul Ahmed Wind Power	50	50	9,362	42.1570	25.2	419	712	30
4	Yunus Energy	50	50	9,439	36.5847	25.4	373	748	27
5	UEP Wind Power	99	99	19,281	47.9490	26.2	924	1,341	64
6	Master Wind Energy	50	50	9,813	42.1570	26.6	447	803	34
7	Three Gorges Second Wind Farm Pakistan	50	50	10,277	37.6300	27.9	415	737	28
8	Three Gorges Third Wind Farm Pakistan	50	50	10,537	37.6300	28.6	397	715	27
9	Zorlu Enerji Pakistan	56	56	11,207	19.1090	26.7	-57	0	0
10	Three Gorges First Wind Farm Pakistan	50	50	10,179	16.9200	27.6	411	361	6
11	Hydrochina Dawood Power	50	50	10,255	47.9490	27.8	435	694	33
12	Sachal Energy Development	50	50	10,313	43.8000	28.0	870	0	0
13	Tenaga Generasi	50	50	10,298	44.7724	27.7	496	702	31
14	Hawa Energy	50	50	12,767	36.9500	34.5	504	884	33
15	Metro Power Company	50	50	11,013	35.0000	29.6	797	309	11
16	ACT Wind	30	30	6,759	31.0780	30.3	225	67	2
17	Jhimpir Power	50	50	12,929	36.9540	34.9	509	873	32
18	Foundation Wind Energy-I	50	50	10,720	40.4283	28.8	789	322	13
19	Liberty Wind Power-I	50	50	12,455	14.0000	33.5	194	1,198	17
20	DIN Energy	50	50	12,206	14.0000	32.8	191	1,144	16
21	Tricon Boston-C	50	50	13,310	38.0000	36.0	0	879	33
22	Tricon Boston-B	50	50	13,591	37.8998	36.7	0	898	34
23	Foundation Wind Energy-II	50	50	12,134	30.3450	32.6	593	408	13
24	Liberty Wind Power-II	50	50	13,009	14.2721	35.0	202	1,144	16
25	Master Green Energy	50	50	14,616	14.2730	39.3	229	1,157	17
26	Artistic Wind Power	50	50	13,028	20.9122	35.0	191	1,165	16
27	Tricon Boston-A	50	50	14,248	37.8998	38.5	1,661	915	35
28	Lakeside Energy Limited	50	50	13,553	14.0620	36.4	205	1,198	17
29	Lucky Renewables	50	50	14,530	14.7535	39.1	301	1,190	18
30	NASDA Green Energy	50	50	13,596	14.0800	36.5	190	1,178	17
31	Gul Ahmed Electric	50	50	13,964	14.0910	37.5	212	1,121	16
32	ACT2 DIN Wind	50	50	14,072	14.1447	37.8	215	1	17
33	Indus Wind Energy	50	50	13,539	14.3375	36.4	211	1,142	16
34	Zephyr Power	50	50	15,512	33.8858	41.7	525	714	24
35	Artistic Energy	50	49	15,370	20.9122	41.8	321	128	3
36	Metro Wind Power	60	60	19,072	17.3200	42.7	330	1,222	21
	Total	**1,848**	**1,843**	**445,007**	**-**	**32.5**	**14,687**	**27,219**	**762**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,594	29.2992	17.9	47	11	0.3
2	Quaid E Azam Solar	100	100	14,118	30.7328	19.0	381	21	0.5
3	Best Green Energy Pakistan	100	100	14,874	48.6202	20.0	628	0	0.0
4	Appolo Solar Development Pakistan	100	100	14,867	46.2197	20.0	687	30	1.4
5	Crest Energy Pakistan	100	100	15,095	48.9852	20.3	606	8	0.3
6	Harappa Solar	18	18	3,124	29.5600	23.3	96	7	0.2
7	Atlas Solar	100	100	18,187	14.2411	24.4	408	0	0.0
8	HNDS Energy	50	50	9,463	-	25.4	67	187	1.3
9	Helios Power	50	50	9,580	11.4322	25.8	67	187	1.3
10	Meridian Energy	50	50	9,592	-	25.8	68	187	1.3
	Total	**680**	**680**	**110,494**	**-**	**21.8**	**3,055**	**639**	**7**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
August, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	August, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	7,446	46.2200	19.0	516	3,658	169
2	FFC Energy Limited	50	50	9,729	13.0727	26.4	58	2,491	33
3	Gul Ahmed Wind Power	50	50	7,905	42.1570	21.2	428	3,613	152
4	Yunus Energy	50	50	7,957	36.5847	21.4	523	3,818	140
5	UEP Wind Power	99	99	15,978	47.9490	21.7	1,174	7,149	343
6	Master Wind Energy	50	50	8,203	42.1570	22.3	503	3,712	156
7	Three Gorges Second Wind Farm Pakistan	50	50	8,166	37.6300	22.2	455	3,930	148
8	Three Gorges Third Wind Farm Pakistan	50	50	8,494	37.6300	23.1	471	4,021	151
9	Zorlu Enerji Pakistan	56	56	12,562	19.1090	29.9	308	2,751	53
10	Three Gorges First Wind Farm Pakistan	50	50	11,498	16.9200	31.2	348	3,300	59
11	Hydrochina Dawood Power	50	50	8,710	47.9490	23.6	561	3,027	145
12	Sachal Energy Development	50	50	12,061	43.8000	32.7	1,021	0	0
13	Tenaga Generasi	50	50	9,053	44.7724	24.3	559	3,504	157
14	Hawa Energy	50	50	9,621	36.9500	26.0	519	4,442	164
15	Metro Power Company	50	50	12,956	35.0000	34.8	725	3,358	122
16	ACT Wind	30	30	7,536	31.0780	33.8	240	1,295	42
17	Jhimpir Power	50	50	10,117	36.9540	27.3	538	4,430	164
18	Foundation Wind Energy-I	50	50	12,366	40.4283	33.2	925	3,324	137
19	Liberty Wind Power-I	50	50	10,548	14.0000	28.4	220	4,823	69
20	DIN Energy	50	50	10,319	14.0000	27.7	217	4,848	69
21	Tricon Boston-C	50	50	10,686	38.0000	28.9	0	4,334	164
22	Tricon Boston-B	50	50	10,859	37.8998	29.3	0	4,264	162
23	Foundation Wind Energy-II	50	50	13,315	30.3450	35.8	695	3,301	102
24	Liberty Wind Power-II	50	50	10,937	14.2721	29.4	225	4,795	68
25	Master Green Energy	50	50	11,575	14.2730	31.1	168	5,059	74
26	Artistic Wind Power	50	50	11,242	20.9122	30.2	229	4,918	70
27	Tricon Boston-A	50	50	11,478	37.8998	31.0	1,682	4,189	142
28	Lakeside Energy Limited	50	50	11,377	14.0620	30.6	219	4,100	58
29	Lucky Renewables	50	50	11,968	14.7535	32.2	251	5,037	74
30	NASDA Green Energy	50	50	11,711	14.0800	31.5	268	4,920	69
31	Gul Ahmed Electric	50	50	11,445	14.0910	30.8	161	4,985	70
32	ACT2 DIN Wind	50	50	11,813	14.1447	31.8	238	4,995	71
33	Indus Wind Energy	50	50	11,770	14.3375	31.6	238	4,875	70
34	Zephyr Power	50	50	13,583	33.8858	36.5	776	2,991	101
35	Artistic Energy	50	49	17,292	20.9122	47.1	438	2,559	56
36	Metro Wind Power	60	60	15,981	17.3200	35.8	401	5,918	103
	Total	**1,848**	**1,843**	**398,254**	-	**29.0**	**16,296**	**142,734**	**3,926**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,461	29.2992	16.4	43	2	0.0
2	Quaid E Azam Solar	100	100	12,647	30.7328	17.0	389	0	0.0
3	Best Green Energy Pakistan	100	100	13,588	48.6202	18.3	662	0	0.0
4	Appolo Solar Development Pakistan	100	100	13,499	46.2197	18.1	625	0	0.0
5	Crest Energy Pakistan	100	100	13,691	48.9852	18.4	671	0	0.0
6	Harappa Solar	18	18	2,808	29.5600	21.0	86	0	0.0
7	Atlas Solar	100	100	15,500	14.2411	20.8	221	0	0.0
8	HNDS Energy	50	50	8,369	-	22.5	58	0	0.0
9	Helios Power	50	50	8,385	11.4322	22.5	58	0	0.0
10	Meridian Energy	50	50	8,428	-	22.7	60	0	0.0
	Total	**680**	**680**	**98,373**	**-**	**19.4**	**2,871**	**2**	**0**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
September, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	September, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	6,756	46.2200	17.8	330	341	2
2	FFC Energy Limited	50	50	5,802	13.0727	16.3	76	211	0
3	Gul Ahmed Wind Power	50	50	7,233	42.1570	20.1	457	322	1
4	Yunus Energy	50	50	7,173	36.5847	19.9	275	343	1
5	UEP Wind Power	99	99	15,173	47.9490	21.3	757	630	3
6	Master Wind Energy	50	50	7,480	42.1570	21.0	329	329	1
7	Three Gorges Second Wind Farm Pakistan	50	50	7,471	37.6300	21.0	292	300	1
8	Three Gorges Third Wind Farm Pakistan	50	50	7,848	37.6300	22.0	307	309	1
9	Zorlu Enerji Pakistan	56	56	8,622	19.1090	21.2	3,250	278	1
10	Three Gorges First Wind Farm Pakistan	50	50	7,147	16.9200	20.1	230	284	1
11	Hydrochina Dawood Power	50	50	9,991	47.9490	28.0	502	343	2
12	Sachal Energy Development	50	50	7,085	43.8000	19.9	430	0	0
13	Tenaga Generasi	50	50	10,628	44.7724	29.5	506	667	3
14	Hawa Energy	50	50	9,405	36.9500	26.3	360	327	1
15	Metro Power Company	50	50	8,047	35.0000	22.4	433	278	1
16	ACT Wind	30	30	5,678	31.0780	26.3	226	53	0
17	Jhimpir Power	50	50	10,243	36.9540	28.6	391	356	1
18	Foundation Wind Energy-I	50	50	10,457	40.4283	29.0	874	277	1
19	Liberty Wind Power-I	50	50	12,188	14.0000	33.9	181	509	1
20	DIN Energy	50	50	12,835	14.0000	35.7	190	501	1
21	Tricon Boston-C	50	50	11,323	38.0000	31.6	0	378	1
22	Tricon Boston-B	50	50	11,518	37.8998	32.2	0	375	1
23	Foundation Wind Energy-II	50	50	10,971	30.3450	30.5	704	170	1
24	Liberty Wind Power-II	50	50	12,488	14.2721	34.7	186	517	1
25	Master Green Energy	50	50	10,288	14.2730	28.6	230	479	1
26	Artistic Wind Power	50	50	13,453	20.9122	37.4	197	500	1
27	Tricon Boston-A	50	50	12,254	37.8998	34.2	1,373	373	1
28	Lakeside Energy Limited	50	50	13,696	14.0620	38.0	200	532	1
29	Lucky Renewables	50	50	12,206	14.7535	33.9	188	527	1
30	NASDA Green Energy	50	50	14,081	14.0800	39.1	188	486	1
31	Gul Ahmed Electric	50	50	14,521	14.0910	40.3	205	528	1
32	ACT2 DIN Wind	50	50	14,264	14.1447	39.6	209	522	1
33	Indus Wind Energy	50	50	15,647	14.3375	43.5	232	546	1
34	Zephyr Power	50	50	14,686	33.8858	40.8	489	926	3
35	Artistic Energy	50	49	14,337	20.9122	40.3	385	155	0
36	Metro Wind Power	60	60	22,451	17.3200	52.0	399	631	1
	Total	**1,848**	**1,843**	**395,446**	**-**	**29.8**	**15,579**	**14,305**	**39**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,643	29.2992	19.0	48	0	0.0
2	Quaid E Azam Solar	100	100	13,497	30.7328	18.7	726	0	0.0
3	Best Green Energy Pakistan	100	100	13,834	48.6202	19.2	673	0	0.0
4	Appolo Solar Development Pakistan	100	100	14,305	46.2197	19.9	661	0	0.0
5	Crest Energy Pakistan	100	100	14,522	48.9852	20.2	711	0	0.0
6	Harappa Solar	18	18	2,878	29.5600	22.2	75	0	0.0
7	Atlas Solar	100	100	16,531	14.2411	23.0	235	0	0.0
8	HNDS Energy	50	50	9,175	-	25.5	64	50	0.0
9	Helios Power	50	50	9,259	11.4322	25.7	64	49	0.0
10	Meridian Energy	50	50	9,285	-	25.8	65	50	0.0
	Total	**680**	**680**	**104,929**	**-**	**21.4**	**3,322**	**150**	**0**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
July - September, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July-September, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	9.5049	0.0	0	1,422
2	Chanar Energy	22	22	0	10.3115	0.0	0	840
3	Thal Industries Corporation	41	22	0	9.7132	0.0	0	1,528
4	Almoiz Industries	36	21	0	9.9626	0.0	591	591
5	RYK Mills	40	40	9,145	12.4788	10.4	69	2,412
6	Chiniot Power	63	63	30,767	10.2445	22.1	267	3,177
7	JDW-III	27	24	43,072	9.0000	79.9	87	4,598
8	JDW-II	26	24	52,694	8.9369	97.9	133	5,210
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	0
	Total	**302**	**254**	**135,678**	**-**	**24.2**	**1,147**	**19,778**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
July, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	9.5049	0.0	0	0
2	Chanar Energy	22	22	0	10.3115	0.0	0	0
3	Thal Industries Corporation	41	22	0	9.7132	0.0	0	0
4	Almoiz Industries	36	21	0	9.9626	0.0	0	0
5	RYK Mills	40	40	1,450	12.4788	4.9	11	11
6	Chiniot Power	63	63	20,206	10.2445	43.1	176	152
7	JDW-III	27	24	13,670	9.0000	75.3	20	0
8	JDW-II	26	24	18,040	8.9369	99.5	20	234
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	0
	Total	**302**	**254**	**53,366**	**-**	**23.8**	**227**	**397**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
August, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	August, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	9.5049	0.0	-	1,422
2	Chanar Energy	22	22	0	10.3115	0.0	-	842
3	Thal Industries Corporation	41	22	0	9.7132	0.0	-	0
4	Almoiz Industries	36	21	0	9.9626	0.0	-	0
5	RYK Mills	40	40	5,737	12.4788	19.3	43	479
6	Chiniot Power	63	63	10,560	10.2445	22.5	92	1,627
7	JDW-III	27	24	12,366	9.0000	68.1	28	2,221
8	JDW-II	26	24	18,045	8.9369	99.5	59	2,275
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	0
	Total	**302**	**254**	**46,709**	**-**	**24.7**	**222**	**8,866**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
September, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	September, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	9.5049	0.0	0	0
2	Chanar Energy	22	22	0	10.3115	0.0	0	-2
3	Thal Industries Corporation	41	22	0	9.7132	0.0	0	1,528
4	Almoiz Industries	36	21	0	9.9626	0.0	591	591
5	RYK Mills	40	40	1,958	12.4788	6.8	15	1,922
6	Chiniot Power	63	63	0	10.2445	0.0	0	1,398
7	JDW-III	27	24	17,036	9.0000	96.9	39	2,377
8	JDW-II	26	24	16,609	8.9369	94.7	54	2,701
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	0
	Total	**302**	**254**	**35,602**	**-**	**19.5**	**698**	**10,515**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
July - September, 2024
Thermal

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July, 2024				August, 2024				September, 2024				July-September, 2024			
				Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost
		MW	MW	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million
A. THERMAL (Gas)																			
1	BQPS II	573	526	41,533	-	10.6	398	39,834	-	10.2	385	26,995	-	7.1	262	108,362	-	9.3	1,045
2	KCCP	248	227	0	-	0.0	0	0	-	0.0	0	829	-	0.5	10	829	-	0.2	10
3	BQPS I	840	730	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
4	KGTPS	107	96	0	-	0.0	0	0	-	0.0	0	12	-	0.0	0	12	-	0.0	0
5	SGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	-	0	-	0.0	0
6	SNPC-I	52	51	24,371	1.2024	64.2	263	26,161	1.2024	68.9	282	24,806	1.2024	67.6	267	75,338	1.2024	66.9	811
7	SNPC-II	52	51	30,812	1.1939	81.2	330	31,002	1.1939	81.7	332	23,040	1.1939	62.7	247	84,854	1.1939	75.4	909
	Total (Gas)	**1,979**	**1,777**	**96,716**	**-**	**7.3**	**991**	**96,997**	**-**	**7.3**	**999**	**75,682**	**-**	**5.9**	**786**	**269,395**	**-**	**6.9**	**2,775**
A. THERMAL (Coal-Imported)																			
1	FFBL Power Company Ltd.	52	52	38,568	2.2786	99.7	780	36,315	2.2786	93.9	734	35,015	2.2786	93.5	708	109,898	2.2786	95.7	2,222
	Total (Coal-Imported)	**52**	**52**	**38,568**	**-**	**99.7**	**780**	**36,315**	**-**	**93.9**	**734**	**35,015**	**-**	**93.5**	**708**	**109,898**	**-**	**95.7**	**2,222**
A. THERMAL (RLNG)																			
1	BQPS-III	942	918	542,902	-	79.5	12,180	464,326	-	68.0	10,556	465,358	-	70.4	10,571	1,472,586	-	72.7	33,307
2	BQPS -II	573	526	270,819	-	69.2	12,180	250,687	-	64.1	7,890	171,903	-	45.4	5,409	693,409	-	59.7	25,479
3	BQPS-I	840	730	35,179	-	6.5	12,180	8,757	-	1.6	365	804	-	0.2	35	44,740	-	2.8	12,580
4	KCCP	248	227	36,210	-	21.4	12,180	28,913	-	17.1	1,179	25,647	-	15.7	1,010	90,770	-	18.5	14,369
5	KGTPS	107	96	1,364	-	1.9	12,180	45	-	0.1	2	423	-	0.6	16	1,832	-	0.9	12,198
6	SGTPS	107	96	0	-	0.0	12,180	0	-	0.0	0	0	-	0.0	0	0	-	0.0	12,180
7	ISL	19	17	979	-	7.7	12,180	1,565	-	12.4	14	2,172	-	17.7	13	4,716	-	12.8	12,206
8	Lucky	30	5	448	-	12.0	12,180	356	-	9.6	10	316	-	8.8	9	1,120	-	10.1	12,198
	Total (RLNG)	**2,866**	**2,615**	**887,901**	**-**	**45.6**	**97,436**	**754,649**	**-**	**38.8**	**20,016**	**666,623**	**-**	35.4	**17,063**	**2,309,173**	**-**	**40.0**	**134,515**
A. THERMAL (RFO)																			
1	BQPS-I	840	730	144,510	-	26.6	6,243	13,214	-	2.4	596	27,594	-	5.3	1,173	185,318	-	11.5	8,012
2	Gul Ahmed Energy Ltd.	136	128	39,203	-	41.2	1,378	10,704		11.2	377	10,746		11.7	365	60,653		21.5	2,120
	Total (RFO)	**840**	**858**	**183,713**	**-**	28.8	**7,621**	**23,918**	**-**	**3.7**	**973**	**38,340**	**-**	**6.2**	**1,173**	**245,971**	**-**	**13.0**	**10,132**
A. THERMAL (HSD)																			
1	KCCP	248	227	3,309	-	2.0	201	207	-	0.1	13	0	-	0.0	0	3,516	-	0.7	214
	Total (HSD)	**248**	**227**	**3,309**	**-**	**2.0**	**201**	**207**	**-**	**0.1**	**13**	**0**	**-**	**0.0**	**0**	**3,516**	**-**	**0.7**	**214**

Annex-I
July - September, 2024
Renewable

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	July, 2024					August, 2024					September, 2024					July-September, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost
		MW	MW	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million
B. RENEWABLE (Solar)																							
1	OURSUN Pakistan Ltd.	50	50	6,237	-	16.8	0	208	5,240	-	14.1	0	175	7,527	-	20.9	0	251	19,004	-	17.2	0	**634**
2	Gharo Solar Ltd.	50	50	6,742	-	18.1	0	121	5,628	-	15.1	0	101	8,546	-	23.7	0	153	20,916	-	18.9	0	**375**
	Total (Solar)	**100**	**100**	**12,979**	**-**	**17.4**	**0**	**329**	**10,868**	**-**	**14.6**	**0**	**276**	**16,073**	**-**	**22.3**	**0**	**404**	**39,920**	**-**	**18.1**	**0**	**1,009**

Annex-I
October - December, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October-December, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	-	0	0	-
2	Guddu 747	747	721	512,702	1.9400	32.2	-229	6,145	-
3	Engro Powergen Qadirpur	227	212	198,849	1.6625	42.5	535	2,240	370
4	Liberty Daharki Power	235	212	246,884	1.6600	52.7	1,193	6,258	-
5	Uch-II Power	404	372	606,632	6.6100	73.9	6,713	7,514	392
6	Foundation Power Company Daharki	179	168	279,997	6.6300	75.5	568	2,802	227
7	Uch Power	586	547	798,715	2.2000	66.1	2,172	11,390	-
	Total	**2,378**	**2,232**	**2,643,779**	**-**	**53.7**	**10,952**	**36,349**	**989**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	367,799	11.83*	55.5	8,728	6,863	-
2	Engro Powergen Thar	660	603	1,010,565	11.34*	75.9	14,817	13,712	-
3	Thar Coal Block-1	1,320	1,230	1,572,277	11.65*	57.9	31,629	24,578	-
4	ThalNova Power Thar	330	303	370,551	11.77*	55.4	9,160	7,850	-
	Total	**2,640**	**2,436**	**3,321,192**	**-**	**61.7**	**64,334**	**53,003**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	133,345	11.7680	4.8	32,354	4,223	41
2	Lucky Electric Power Company	660	605	229,538	9.4248	17.2	12,103	3,086	-
3	Port Qasim Electric Power	1,320	1,243	725,714	10.1535	26.4	29,730	11,604	670
4	Huaneng Shandong Ruyi Energy	1,320	1,244	373,769	9.9622	13.6	28,850	7,097	116
	Total	**4,620**	**4,341**	**1,462,366**	**-**	**15.3**	**103,038**	**26,009**	**827**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	85	-	0.0	8,794	-18	-
2	Fauji Kabirwala Power	170	151	0	-	0.0	761	-6	-
3	Saif Power	225	204	14,800	1.9192	3.3	804	401	30
4	Punjab Thermal Power	1,263	1,243	207,266	-	7.6	3,649	4,965	682
5	Sapphire Electric Company	235	202	0	1.9287	0.0	428	-150	-
6	Halmore Power Generation	225	200	12,006	2.5351	2.7	1,041	327	20
7	Orient Power Company	225	203	24,467	2.3559	5.5	914	655	49
8	Nandipur	567	500	28,016	2.4061	2.5	2,464	746	-
9	Bhikki	1,231	1,163	1,097,606	2.9064	42.7	11,613	24,789	1,798
10	Balloki	1,276	1,165	1,569,439	2.8353	61.0	7,317	34,873	2,184
11	Haveli Bahadur Shah	1,277	1,172	1,569,323	3.0119	60.6	6,593	35,317	2,604
	Total	**7,144**	**6,203**	**4,523,008**	**-**	**33.0**	**44,378**	**101,898**	**7,367**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	854	239	-
2	TPS Jamshoro	880	300	0	-	0.0	410	52	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	350	0	-	0.0	2,471	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	-1,969	190	-
7	Nishat Chunian Power	202	196	395	1.9600	0.1	996	15	-
8	Narowal Energy	214	214	238	2.5300	0.1	1,217	9	-
9	Atlas Power	224	0	0	-	0.0	-3,944	0	-
10	Liberty Power Tech	202	196	43	2.1700	0.0	1,011	0	-
11	Nishat Power	202	195	1,842	1.9300	0.4	1,001	64	3
12	Attock Gen.	165	156	1,335	2.0800	0.4	956	43	3
13	Kohinoor Energy	131	124	783	-	0.3	817	25	-
	Total	**5,725**	**2,181**	**4,637**	**-**	**0.1**	**3,820**	**636**	**6**
NUCLEAR									
1	Chashma Nuclear-II	325	315	664,173	6.8300	95.5	5,556	1,381	-
2	Karachi Nuclear-3	1,145	1,040	758,281	11.1100	33.0	37,512	1,289	-
3	Chashma Nuclear-IV	340	315	665,405	16.6500	95.7	11,695	1,127	-
4	Karachi Nuclear-2	1,145	1,040	2,041,858	10.4000	88.9	23,196	6,367	-
5	Chashma Nuclear-III	340	315	372,126	16.7300	53.5	11,569	640	-
6	Chashma Nuclear-I	325	301	660,399	6.3300	99.4	5,187	947	-
	Total	**3,620**	**3,326**	**5,162,242**	**-**	**70.3**	**94,716**	**11,752**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G:
a. HUBCO, Lalpir, Saba Power, Rousch Power & Atlas Power PPA has been terminated on 30-09-2024.
b. For Chashma Nuclear Plant I-IV, CPP amounts also include IRSA Levy amounts on claim basis.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
October, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	0	0	-
2	Guddu 747	747	721	164,651	1.9400	30.7	-156	1,973	-
3	Engro Powergen Qadirpur	227	212	60,558	1.6625	38.4	172	666	77
4	Liberty Daharki Power	235	212	102,120	1.6600	64.7	418	2,870	-
5	Uch-II Power	404	372	250,949	6.6100	90.7	2,763	3,091	130
6	Foundation Power Company Daharki	179	168	109,395	6.6300	87.5	161	1,065	44
7	Uch Power	586	547	138,264	2.2000	34.0	647	2,365	-
	Total	**2,378**	**2,232**	**825,937**	**-**	**49.7**	**4,006**	**12,031**	**251**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	195,760	11.83*	87.7	3,837	3,343	-
2	Engro Powergen Thar	660	603	428,046	11.34*	95.4	4,734	5,240	-
3	Thar Coal Block-1	1,320	1,230	857,732	11.65*	93.7	10,720	8,910	-
4	ThalNova Power Thar	330	303	36,708	11.77*	16.3	3,846	3,411	-
	Total	**2,640**	**2,436**	**1,518,246**	**-**	**83.8**	**23,137**	**20,904**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	133,345	11.7680	14.3	11,213	5,190	41
2	Lucky Electric Power Company	660	605	151,155	9.4248	33.6	5,588	2,097	-
3	Port Qasim Electric Power	1,320	1,243	330,480	10.1535	35.7	10,365	5,590	281
4	Huaneng Shandong Ruyi Energy	1,320	1,244	287,568	9.9622	31.1	8,899	6,029	53
	Total	**4,620**	**4,341**	**902,548**	**-**	**27.9**	**36,065**	**18,905**	**375**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	-18	-
2	Fauji Kabirwala Power	170	151	0	-	0.0	254	-4	-
3	Saif Power	225	204	14,800	1.9192	9.8	267	448	30
4	Punjab Thermal Power	1,263	1,243	152,587	-	16.5	593	3,883	458
5	Sapphire Electric Company	235	202	0	1.9287	0.0	-197	0	-
6	Halmore Power Generation	225	200	12,006	2.5351	8.1	374	364	20
7	Orient Power Company	225	203	24,467	2.3559	16.2	224	725	49
8	Nandipur	567	500	28,016	2.4061	7.5	806	746	-
9	Bhikki	1,231	1,163	679,196	2.9064	78.5	4,831	16,293	1,043
10	Balloki	1,276	1,165	708,770	2.8353	81.8	2,222	16,617	929
11	Haveli Bahadur Shah	1,277	1,172	382,776	3.0119	43.9	2,080	8,554	586
	Total	**7,144**	**6,203**	**2,002,618**	**-**	**43.4**	**11,454**	**47,608**	**3,116**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	261	5	-
2	TPS Jamshoro	880	300	0	-	0.0	137	22	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	350	0	-	0.0	728	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	649	0	-
7	Nishat Chunian Power	202	196	0	1.9600	0.0	243	0	-
8	Narowal Energy	214	214	0	2.5300	0.0	192	0	-
9	Atlas Power	224	0	0	-	0.0	-4,018	0	-
10	Liberty Power Tech	202	196	0	2.1700	0.0	233	0	-
11	Nishat Power	202	195	1,205	1.9300	0.8	285	42	3
12	Attock Gen.	165	156	795	2.0800	0.7	266	25	2
13	Kohinoor Energy	131	124	0	-	0.0	424	0	-
	Total	**5,725**	**2,181**	**2,000**	**-**	**0.1**	**-601**	**94**	**5**
NUCLEAR									
1	Chashma Nuclear-II	325	315	229,747	6.8300	98.0	1,898	478	-
2	Karachi Nuclear-3	1,145	1,040	0	11.1100	0.0	15,685	-60	-
3	Chashma Nuclear-IV	340	315	233,435	16.6500	99.6	3,991	395	-
4	Karachi Nuclear-2	1,145	1,040	707,483	10.4000	91.4	7,967	887	-
5	Chashma Nuclear-III	340	315	49,811	16.7300	21.3	3,887	86	-
6	Chashma Nuclear-I	325	301	221,462	6.3300	98.9	1,737	318	-
	Total	**3,620**	**3,326**	**1,441,938**	**-**	**58.3**	**35,166**	**2,104**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G:
a. HUBCO, Lalpir, Saba Power, Rousch Power & Atlas Power PPA has been terminated on 30-09-2024.
b. For Chashma Nuclear Plant I-IV, CPP amounts also include IRSA Levy amounts on claim basis.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
November, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	November, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	0	0	-
2	Guddu 747	747	721	151,508	1.9400	28.3	67	1,816	-
3	Engro Powergen Qadirpur	227	212	70,364	1.6625	44.6	134	793	101
4	Liberty Daharki Power	235	212	62,892	1.6600	39.9	358	970	-
5	Uch-II Power	404	372	183,812	6.6100	66.4	1,934	2,669	134
6	Foundation Power Company Daharki	179	168	79,480	6.6300	63.6	146	808	83
7	Uch Power	586	547	309,969	2.2000	76.2	680	4,273	0
	Total	**2,378**	**2,232**	**858,025**	**-**	**51.7**	**3,318**	**11,329**	**317**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	162,149	11.83*	72.6	2,622	2,172	-
2	Engro Powergen Thar	660	603	382,517	11.34*	85.3	4,778	4,542	-
3	Thar Coal Block-1	1,320	1,230	302,297	11.65*	33.0	10,888	6,608	-
4	ThalNova Power Thar	330	303	171,699	11.77*	76.2	2,626	2,226	-
	Total	**2,640**	**2,436**	**1,018,662**	**-**	**56.2**	**20,914**	**15,547**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	0	11.7680	0.0	10,528	-957	-
2	Lucky Electric Power Company	660	605	78,383	9.4248	17.4	4,203	1,225	-
3	Port Qasim Electric Power	1,320	1,243	395,234	10.1535	42.7	9,550	6,156	389
4	Huaneng Shandong Ruyi Energy	1,320	1,244	3,363	9.9622	0.4	9,123	86	5
	Total	**4,620**	**4,341**	**476,980**	**-**	**14.8**	**33,404**	**6,510**	**394**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	8,794	0	-
2	Fauji Kabirwala Power	170	151	0	-	0.0	254	-1	-
3	Saif Power	225	204	0	1.9192	0.0	280	0	-
4	Punjab Thermal Power	1,263	1,243	0	-	0.0	2,440	-165	-
5	Sapphire Electric Company	235	202	0	1.9287	0.0	340	-150	-
6	Halmore Power Generation	225	200	0	2.5351	0.0	252	-15	-
7	Orient Power Company	225	203	0	2.3559	0.0	268	-24	-
8	Nandipur	567	500	0	2.4061	0.0	780	0	-
9	Bhikki	1,231	1,163	157,380	2.9064	18.2	4,070	2,470	231
10	Balloki	1,276	1,165	268,059	2.8353	30.9	2,640	4,824	414
11	Haveli Bahadur Shah	1,277	1,172	481,072	3.0119	55.2	2,424	10,764	900
	Total	**7,144**	**6,203**	**906,511**	**-**	**19.6**	**22,544**	**17,703**	**1,545**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	247		-
2	TPS Jamshoro	880	300	0	-	0.0	137	-7	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	350	0	-	0.0	1,016	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	-14	190	-
7	Nishat Chunian Power	202	196	0	1.9600	0.0	438	0	-
8	Narowal Energy	214	214	0	2.5300	0.0	364	0	-
9	Atlas Power	224	0	0	-	0.0	76	0	-
10	Liberty Power Tech	202	196	0	2.1700	0.0	316	0	-
11	Nishat Power	202	195	0	1.9300	0.0	337	0	-
12	Attock Gen.	165	156	0	2.0800	0.0	223	0	-
13	Kohinoor Energy	131	124	0	-	0.0	205	0	-
	Total	**5,725**	**2,181**	**0**	**-**	**0.0**	**3,344**	**183**	**-**
NUCLEAR									
1	Chashma Nuclear-II	325	315	217,690	6.8300	92.9	1,835	453	-
2	Karachi Nuclear-3	1,145	1,040	200,774	11.1100	25.9	15,337	313	-
3	Chashma Nuclear-IV	340	315	215,673	16.6500	92.0	3,806	365	-
4	Karachi Nuclear-2	1,145	1,040	700,416	10.4000	90.5	7,256	4,401	-
5	Chashma Nuclear-III	340	315	105,765	16.7300	45.1	3,762	182	-
6	Chashma Nuclear-I	325	301	214,886	6.3300	96.0	1,687	308	-
	Total	**3,620**	**3,326**	**1,655,204**	**-**	**66.9**	**33,682**	**6,022**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G:
a. HUBCO, Lalpir, Saba Power, Rousch Power & Atlas Power PPA has been terminated on 30-09-2024.
b. For Chashma Nuclear Plant I-IV, CPP amounts also include IRSA Levy amounts on claim basis.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
December, 2024
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	December, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	-	0	0	-
2	Guddu 747	747	721	196,543	1.9400	37.9	-140	2,356	-
3	Engro Powergen Qadirpur	227	212	67,927	1.6625	44.5	230	781	192
4	Liberty Daharki Power	235	212	81,872	1.6600	53.6	418	2,417	-
5	Uch-II Power	404	372	171,871	6.6100	64.2	2,016	1,754	128
6	Foundation Power Company Daharki	179	168	91,122	6.6300	75.3	260	929	100
7	Uch Power	586	547	350,482	2.2000	89.0	845	4,752	-
	Total	**2,378**	**2,232**	**959,817**	**-**	**59.7**	**3,629**	**12,989**	**421**
THERMAL (Coal-Local)									
1	Thar Energy	330	300	9,890	11.83*	4.6	2,270	1,348	-
2	Engro Powergen Thar	660	603	200,002	11.34*	46.1	5,305	3,930	-
3	Thar Coal Block-1	1,320	1,230	412,248	11.65*	46.6	10,020	9,061	-
4	ThalNova Power Thar	330	303	162,144	11.77*	74.3	2,688	2,213	-
	Total	**2,640**	**2,436**	**784,284**	**-**	44.7	**20,283**	**16,551**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	0	11.7680	0.0	10,613	-10	-
2	Lucky Electric Power Company	660	605	0	9.4248	0.0	2,312	-236	-
3	Port Qasim Electric Power	1,320	1,243	0	10.1535	0.0	9,815	-142	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	82,838	9.9622	9.2	10,829	982	58
	Total	**4,620**	**4,341**	**82,838**	**-**	2.7	**33,569**	**594**	**58**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	85	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	0	-	0.0	254	0	-
3	Saif Power	225	204	0	1.9192	0.0	257	-47	-
4	Punjab Thermal Power	1,263	1,243	54,679	-	6.1	616	1,247	224
5	Sapphire Electric Company	235	202	0	1.9287	0.0	285	0	-
6	Halmore Power Generation	225	200	0	2.5351	0.0	414	-22	-
7	Orient Power Company	225	203	0	2.3559	0.0	422	-46	-
8	Nandipur	567	500	0	2.4061	0.0	878	0	-
9	Bhikki	1,231	1,163	261,030	2.9064	31.2	2,711	6,025	523
10	Balloki	1,276	1,165	592,610	2.8353	70.6	2,455	13,432	840
11	Haveli Bahadur Shah	1,277	1,172	705,475	3.0119	83.6	2,089	15,999	1,117
	Total	**7,144**	**6,203**	**1,613,879**	**-**	**36.1**	**10,381**	**36,588**	**2,705**
THERMAL (RFO)									
1	TPS M/Garh	1,350	450	0	-	0.0	346	234	-
2	TPS Jamshoro	880	300	0	-	0.0	137	36	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	350	0	-	0.0	728	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	-2,604	0	-
7	Nishat Chunian Power	202	196	395	1.9600	0.3	315	15	-
8	Narowal Energy	214	214	238	2.5300	0.2	661	9	-
9	Atlas Power	224	0	0	-	0.0	-2	0	-
10	Liberty Power Tech	202	196	43	2.1700	0.0	462	0	-
11	Nishat Power	202	195	637	1.9300	0.5	379	22	-
12	Attock Gen.	165	156	540	2.0800	0.5	467	17	1
13	Kohinoor Energy	131	124	783	-	0.9	189	25	-
	Total	**5,725**	**2,181**	**2,637**	**-**	**0.2**	**1,077**	**359**	**1**
NUCLEAR									
1	Chashma Nuclear-II	325	315	216,736	6.8300	95.6	1,823	451	-
2	Karachi Nuclear-3	1,145	1,040	557,507	11.1100	74.5	6,491	1,036	-
3	Chashma Nuclear-IV	340	315	216,297	16.6500	95.4	3,899	366	-
4	Karachi Nuclear-2	1,145	1,040	633,959	10.4000	84.7	7,973	1,079	-
5	Chashma Nuclear-III	340	315	216,550	16.7300	95.5	3,919	373	-
6	Chashma Nuclear-I	325	301	224,051	6.3300	103.4	1,764	321	-
	Total	**3,620**	**3,326**	**2,065,100**	**-**	**86.2**	**25,868**	**3,626**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G:
a. HUBCO, Lalpir, Saba Power, Rousch Power & Atlas Power PPA has been terminated on 30-09-2024.
b. For Chashma Nuclear Plant I-IV, CPP amounts also include IRSA Levy amounts on claim basis.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
October - December, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	October-December, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	11,594	Rs. 5085/kW/M	30.9	144	14
2	Jinnah Hydel Power Station	WAPDA	96	36	46,993	Rs. 1798/kW/M	59.1	604	20
3	Chitral Hydel Power Station	WAPDA	1	1	497	Rs. 7241/kW/M	22.5	45	0
4	Renala	WAPDA	1	1	384	Rs. 5632/kW/M	17.4	33	0
5	Golen Gol	WAPDA	108	108	30,320	Rs. 3465/kW/M	12.7	2,716	48
6	Rasul Hydel Power Station	WAPDA	22	22	10,329	Rs. 1272/kW/M	21.3	141	3
7	Shadiwal Power Station	WAPDA	14	14	11,154	Rs. 1528/kW/M	36.1	114	3
8	New Bong Escape	Private	84	84	129,027	Rs.14.82/kWh	69.6	2,372	-819
9	Chichoki	WAPDA	13	13	4,214	Rs. 1451/kW/M	14.7	96	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	19,810	Rs. 2062/kW/M	12.5	742	6
11	Malakand-III	PEDO	84	81	32,375	Rs.9.32/kWh	18.1	133	15
12	Gulpur	Private	100	100	6,914	Rs. 13241/kW/M	3.1	4,092	15
13	Nandipur Hydel Power Station	WAPDA	14	14	4,988	Rs. 1661/kW/M	16.1	124	1
14	Dargai	WAPDA	20	20	15,650	Rs. 1426/kW/M	35.4	160	3
15	Mangla Power Station	WAPDA	1,000	1,000	1,588,128	Rs.1017/kW/M	71.9	5,640	170
16	Allai Khwar	WAPDA	121	121	41,142	Rs.1742/kW/M	15.4	890	9
17	Warsak Hydel Power Plant	WAPDA	243	243	144,217	Rs. 1002/kW/M	26.9	1,208	16
18	Karot	Private	720	720	236,973	Rs. 8290/kW/M	14.9	17,272	396
19	Kurram Garhi	WAPDA	4	4	4,915	Rs. 3427/kW/M	55.7	67	3
20	Chashma Hydel Power Station	WAPDA	184	184	268,985	Rs. 1909/kW/M	66.2	1,528	55
21	Patrind	Private	147	147	62,834	Rs. 10094/kW/M	19.4	2,879	21
22	Duber Khwar Hydel Power Station	WAPDA	130	130	21,834	Rs. 2319/kW/M	7.6	1,384	7
23	Daral Khwar Hydro Power Station	PEDO	37	37	15,824	Rs. 8.2683/kWh	19.4	0	119
24	Ghazi Barotha	WAPDA	1,450	1,450	1,779,449	Rs. 911/kW/M	55.6	7,546	130
25	Suki Kinari	Private	884	883	283,216	Rs. 5662/kW/M	83.5	10,307	118
26	Jagran-I	Public	30	30	13,031	Rs. 3.9799/kWh	19.7	0	-4
27	Jabban Hydel Power Station	WAPDA	22	22	30,897	Rs. 2870/kW/M	63.6	227	9
28	Tarbela	WAPDA	3,478	3,478	2,174,545	Rs. 590/kW/M	28.3	12,762	86
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	835,423	Rs. 978/kW/M	26.8	8,838	103
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**7,825,662**	**-**	**31.0**	**82,065**	**548**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well and the actual CPP of WAPDA HPPs billed to DISCOs after previous adjustments is approximately Rs. 47,281 million.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
October, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	October, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	4,427	Rs. 5085/kW/M	35.0	49	5
2	Jinnah Hydel Power Station	WAPDA	96	36	13,900	Rs. 1798/kW/M	51.9	199	6
3	Chitral Hydel Power Station	WAPDA	1	1	139	Rs. 7241/kW/M	18.6	15	0
4	Renala	WAPDA	1	1	176	Rs. 5632/kW/M	23.6	11	0
5	Golen Gol	WAPDA	108	108	15,232	Rs. 3465/kW/M	19.0	913	24
6	Rasul Hydel Power Station	WAPDA	22	22	3,324	Rs. 1272/kW/M	20.3	47	1
7	Shadiwal Power Station	WAPDA	14	14	3,803	Rs. 1528/kW/M	36.5	38	1
8	New Bong Escape	Private	84	84	53,917	Rs.14.82/kWh	86.3	1,125	-917
9	Chichoki	WAPDA	13	13	2,972	Rs. 1451/kW/M	30.7	34	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	9,342	Rs. 2062/kW/M	17.4	252	3
11	Malakand-III	PEDO	84	81	8,886	Rs.9.32/kWh	14.7	103	4
12	Gulpur	Private	100	100	6,232	Rs. 13241/kW/M	8.4	2,082	15
13	Nandipur Hydel Power Station	WAPDA	14	14	3,334	Rs. 1661/kW/M	32.0	44	1
14	Dargai	WAPDA	20	20	6,400	Rs. 1426/kW/M	43.0	55	1
15	Mangla Power Station	WAPDA	1,000	1,000	703,020	Rs.1017/kW/M	94.5	2,072	75
16	Allai Khwar	WAPDA	121	121	18,224	Rs.1742/kW/M	20.2	304	4
17	Warsak Hydel Power Plant	WAPDA	243	243	62,883	Rs. 1002/kW/M	34.8	426	7
18	Karot	Private	720	720	101,547	Rs. 8290/kW/M	19.0	7,111	344
19	Kurram Garhi	WAPDA	4	4	1,742	Rs. 3427/kW/M	58.5	23	1
20	Chashma Hydel Power Station	WAPDA	184	184	102,464	Rs. 1909/kW/M	74.8	528	21
21	Patrind	Private	147	147	27,892	Rs. 10094/kW/M	25.5	551	16
22	Duber Khwar Hydel Power Station	WAPDA	130	130	17,899	Rs. 2319/kW/M	18.5	478	6
23	Daral Khwar Hydro Power Station	PEDO	37	37	7,226	Rs. 8.2683/kWh	26.2	0	50
24	Ghazi Barotha	WAPDA	1,450	1,450	652,251	Rs. 911/kW/M	60.5	2,603	48
25	Suki Kinari	Private	884	883	124,757	Rs. 5662/kW/M	19.0	5,509	70
26	Jagran-I	Public	30	30	7,179	Rs. 3.9799/kWh	32.2	0	-19
27	Jabban Hydel Power Station	WAPDA	22	22	13,024	Rs. 2870/kW/M	79.6	80	4
28	Tarbela	WAPDA	3,478	3,478	818,943	Rs. 590/kW/M	31.6	4,400	33
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	396,255	Rs. 978/kW/M	37.8	3,129	49
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**3,187,387**	**-**	**37.5**	**32,180**	**-146**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well and the actual CPP of WAPDA HPPs billed to DISCOs after previous adjustments is approximately Rs. 47,281 million.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
November, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	November, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	4,307	Rs. 5085/kW/M	35.2	49	5
2	Jinnah Hydel Power Station	WAPDA	96	36	17,254	Rs. 1798/kW/M	66.6	204	7
3	Chitral Hydel Power Station	WAPDA	1	1	161	Rs. 7241/kW/M	22.4	15	0
4	Renala	WAPDA	1	1	115	Rs. 5632/kW/M	16.0	11	0
5	Golen Gol	WAPDA	108	108	9,354	Rs. 3465/kW/M	12.0	904	15
6	Rasul Hydel Power Station	WAPDA	22	22	3,249	Rs. 1272/kW/M	20.5	47	1
7	Shadiwal Power Station	WAPDA	14	14	3,769	Rs. 1528/kW/M	37.4	38	1
8	New Bong Escape	Private	84	84	47,411	Rs.14.82/kWh	78.4	175	23
9	Chichoki	WAPDA	13	13	1,223	Rs. 1451/kW/M	13.1	32	0
10	Khan Khwar Hydel Power Station	WAPDA	72	72	7,610	Rs. 2062/kW/M	14.7	249	2
11	Malakand-III	PEDO	84	81	14,222	Rs.9.32/kWh	24.4	84	7
12	Gulpur	Private	100	100	658	Rs. 13241/kW/M	0.9	1,354	0
13	Nandipur Hydel Power Station	WAPDA	14	14	1,521	Rs. 1661/kW/M	15.1	41	0
14	Dargai	WAPDA	20	20	6,237	Rs. 1426/kW/M	43.3	55	1
15	Mangla Power Station	WAPDA	1,000	1,000	556,503	Rs.1017/kW/M	77.3	1,910	60
16	Allai Khwar	WAPDA	121	121	14,666	Rs.1742/kW/M	16.8	298	3
17	Warsak Hydel Power Plant	WAPDA	243	243	42,021	Rs. 1002/kW/M	24.0	393	5
18	Karot	Private	720	720	75,277	Rs. 8290/kW/M	14.5	8,622	31
19	Kurram Garhi	WAPDA	4	4	1,554	Rs. 3427/kW/M	54.0	22	1
20	Chashma Hydel Power Station	WAPDA	184	184	97,617	Rs. 1909/kW/M	73.7	521	20
21	Patrind	Private	147	147	19,017	Rs. 10094/kW/M	18.0	1,851	3
22	Duber Khwar Hydel Power Station	WAPDA	130	130	-31	Rs. 2319/kW/M	0.0	450	0
23	Daral Khwar Hydro Power Station	PEDO	37	37	5,088	Rs. 8.2683/kWh	19.1	0	40
24	Ghazi Barotha	WAPDA	1,450	1,450	685,594	Rs. 911/kW/M	65.7	2,652	50
25	Suki Kinari	Private	884	883	88,935	Rs. 5662/kW/M	14.0	2,416	27
26	Jagran-I	Public	30	30	3,791	Rs. 3.9799/kWh	17.6	0	10
27	Jabban Hydel Power Station	WAPDA	22	22	10,677	Rs. 2870/kW/M	67.4	76	3
28	Tarbela	WAPDA	3,478	3,478	839,332	Rs. 590/kW/M	33.5	4,432	33
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	302,864	Rs. 978/kW/M	29.8	2,984	37
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**2,859,994**	**-**	**33.6**	**29,886**	**385**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well and the actual CPP of WAPDA HPPs billed to DISCOs after previous adjustments is approximately Rs. 47,281 million.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
December, 2024
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	December, 2024				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	2,860	Rs. 5085/kW/M	22.6	46	4
2	Jinnah Hydel Power Station	WAPDA	96	36	15,839	Rs. 1798/kW/M	59.1	201	7
3	Chitral Hydel Power Station	WAPDA	1	1	197	Rs. 7241/kW/M	26.5	15	0
4	Renala	WAPDA	1	1	93	Rs. 5632/kW/M	12.5	11	0
5	Golen Gol	WAPDA	108	108	5,734	Rs. 3465/kW/M	7.1	899	9
6	Rasul Hydel Power Station	WAPDA	22	22	3,756	Rs. 1272/kW/M	22.9	47	1
7	Shadiwal Power Station	WAPDA	14	14	3,583	Rs. 1528/kW/M	34.4	38	1
8	New Bong Escape	Private	84	84	27,699	Rs.14.82/kWh	44.3	1,072	75
9	Chichoki	WAPDA	13	13	19	Rs. 1451/kW/M	0.2	30	0
10	Khan Khwar Hydel Power Station	WAPDA	72	72	2,858	Rs. 2062/kW/M	5.3	241	1
11	Malakand-III	PEDO	84	81	9,267	Rs.9.32/kWh	15.4	-54	4
12	Gulpur	Private	100	100	24	Rs. 13241/kW/M	0.0	656	0
13	Nandipur Hydel Power Station	WAPDA	14	14	133	Rs. 1661/kW/M	1.3	39	0
14	Dargai	WAPDA	20	20	3,013	Rs. 1426/kW/M	20.2	50	1
15	Mangla Power Station	WAPDA	1,000	1,000	328,605	Rs.1017/kW/M	44.2	1,658	35
16	Allai Khwar	WAPDA	121	121	8,253	Rs.1742/kW/M	9.2	288	2
17	Warsak Hydel Power Plant	WAPDA	243	243	39,313	Rs. 1002/kW/M	21.7	389	4
18	Karot	Private	720	720	60,149	Rs. 8290/kW/M	11.2	1,539	21
19	Kurram Garhi	WAPDA	4	4	1,619	Rs. 3427/kW/M	54.4	22	1
20	Chashma Hydel Power Station	WAPDA	184	184	68,904	Rs. 1909/kW/M	50.3	479	14
21	Patrind	Private	147	147	15,925	Rs. 10094/kW/M	14.6	477	3
22	Duber Khwar Hydel Power Station	WAPDA	130	130	3,966	Rs. 2319/kW/M	4.1	456	1
23	Daral Khwar Hydro Power Station	PEDO	37	37	3,509	Rs. 8.2683/kWh	12.7	0	29
24	Ghazi Barotha	WAPDA	1,450	1,450	441,604	Rs. 911/kW/M	40.9	2,291	32
25	Suki Kinari	Private	884	883	69,524	Rs. 5662/kW/M	10.6	2,382	21
26	Jagran-I	Public	30	30	2,062	Rs. 3.9799/kWh	9.2	0	5
27	Jabban Hydel Power Station	WAPDA	22	22	7,197	Rs. 2870/kW/M	44.0	71	2
28	Tarbela	WAPDA	3,478	3,478	516,270	Rs. 590/kW/M	20.0	3,930	20
29	NJHPC	Public	969	969	0	Rs. 9.1184/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	136,305	Rs. 978/kW/M	13.0	2,725	17
31	Ranolia	PEDO	17	17	0	Rs. 4.1678/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**1,778,281**	**-**	**20.9**	**19,998**	**310**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well and the actual CPP of WAPDA HPPs billed to DISCOs after previous adjustments is approximately Rs. 47,281 million.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
October - December, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October-December, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	10,199	45.6427	8.7	607	2,912	133
2	FFC Energy Limited	50	50	11,326	13.1440	10.4	330	43	1
3	Gul Ahmed Wind Power	50	50	12,219	41.1722	11.1	636	2,894	119
4	Yunus Energy	50	50	12,077	35.4475	10.9	531	2,898	103
5	UEP Wind Power	99	99	20,861	47.1452	9.5	1,487	4,832	228
6	Master Wind Energy	50	50	11,177	41.1722	10.2	569	2,794	115
7	Three Gorges Second Wind Farm Pakistan	50	50	12,722	36.9001	11.6	737	3,070	115
8	Three Gorges Third Wind Farm Pakistan	50	50	12,358	37.0000	11.3	751	3,178	117
9	Zorlu Enerji Pakistan	56	56	14,230	19.1436	11.4	533	45	1
10	Three Gorges First Wind Farm Pakistan	50	50	12,923	16.9598	11.8	446	27	0
11	Hydrochina Dawood Power	50	50	10,394	47.1452	9.5	658	2,286	108
12	Sachal Energy Development	50	50	15,117	43.8313	13.8	655	0	0
13	Tenaga Generasi	50	50	11,056	43.9146	10.0	577	2,214	97
14	Hawa Energy	50	50	17,400	36.2568	15.8	755	3,421	124
15	Metro Power Company	50	50	17,948	35.2189	16.3	425	32	1
16	ACT Wind	30	30	8,118	29.8504	12.3	296	2,903	3
17	Jhimpir Power	50	50	15,634	36.2568	14.2	687	3,312	120
18	Foundation Wind Energy-I	50	50	11,186	40.4213	10.1	491	0	0
19	Liberty Wind Power-I	50	50	16,034	13.9760	14.5	273	3,548	50
20	DIN Energy	50	50	17,682	14.0102	16.0	298	3,603	51
21	Tricon Boston-C	50	50	15,812	37.0000	14.4	0	3,184	118
22	Tricon Boston-B	50	50	15,256	37.0000	13.9	0	3,024	112
23	Foundation Wind Energy-II	50	50	14,457	21.3302	13.1	368	182	6
24	Liberty Wind Power-II	50	50	15,799	13.9760	14.3	266	3,297	46
25	Master Green Energy	50	50	15,705	13.9754	14.2	271	3,566	51
26	Artistic Wind Power	50	50	17,165	13.8538	15.5	317	3,529	49
27	Tricon Boston-A	50	50	15,136	37.1383	13.8	1,952	2,863	106
28	Lakeside Energy Limited	50	50	17,044	13.7590	15.4	297	3,655	50
29	Lucky Renewables	50	50	17,149	14.4448	15.5	289	3,463	50
30	NASDA Green Energy	50	50	17,499	13.7906	15.9	291	3,596	50
31	Gul Ahmed Electric	50	50	18,313	13.7996	16.6	376	3,500	48
32	ACT2 DIN Wind	50	50	16,659	13.8538	15.1	283	3,272	45
33	Indus Wind Energy	50	50	18,281	14.0409	16.6	369	3,508	49
34	Zephyr Power	50	50	16,605	32.7148	15.0	1,211	262	9
35	Artistic Energy	50	49	23,115	20.5391	21.2	610	383	8
36	Metro Wind Power	60	60	24,963	16.7346	18.8	488	4,201	70
	Total	**1,848**	**1,843**	**549,621**	**-**	**13.5**	**19,131**	**89,499**	**2,355**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	3,697	29.0167	14.0	131	3	0
2	Quaid E Azam Solar	100	100	34,105	30.0236	15.4	1,429	0	0
3	Best Green Energy Pakistan	100	100	36,092	47.9198	16.3	1,730	0	0
4	Appolo Solar Development Pakistan	100	100	36,112	45.7927	16.4	1,654	0	0
5	Crest Energy Pakistan	100	100	36,539	48.3369	16.5	1,766	0	0
6	Harappa Solar	18	18	5,261	29.2819	13.2	161	103	2
7	Atlas Solar	100	100	33,863	13.2715	15.3	601	160	2
8	HNDS Energy	50	50	19,240	-	17.4	134	101	1
9	Helios Power	50	50	19,478	11.1979	17.6	135	99	1
10	Meridian Energy	50	50	19,574	-	17.7	135	100	1
	Total	**680**	**680**	**243,961**	**-**	**16.2**	**7,875**	**566**	**7**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
October, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	3,309	45.6427	8.4	163	202	9
2	FFC Energy Limited	50	50	2,636	13.1440	7.2	242	0	0
3	Gul Ahmed Wind Power	50	50	3,719	41.1722	10.0	171	96	4
4	Yunus Energy	50	50	3,637	35.4475	9.8	133	108	4
5	UEP Wind Power	99	99	7,751	47.1452	10.5	651	209	10
6	Master Wind Energy	50	50	3,567	41.1722	9.7	152	115	5
7	Three Gorges Second Wind Farm Pakistan	50	50	3,892	36.9001	10.6	144	121	4
8	Three Gorges Third Wind Farm Pakistan	50	50	4,058	37.0000	11.0	150	121	4
9	Zorlu Enerji Pakistan	56	56	4,110	19.1436	9.8	436	0	0
10	Three Gorges First Wind Farm Pakistan	50	50	3,353	16.9598	9.1	89	0	0
11	Hydrochina Dawood Power	50	50	4,774	47.1452	13.0	222	104	5
12	Sachal Energy Development	50	50	3,527	43.8313	9.6	116	0	0
13	Tenaga Generasi	50	50	4,896	43.9146	13.2	215	86	4
14	Hawa Energy	50	50	4,840	36.2568	13.1	181	142	5
15	Metro Power Company	50	50	3,828	35.2189	10.3	166	0	0
16	ACT Wind	30	30	2,578	29.8504	11.6	83	0	0
17	Jhimpir Power	50	50	4,944	36.2568	13.4	184	144	5
18	Foundation Wind Energy-I	50	50	4,386	40.4213	11.8	144	0	0
19	Liberty Wind Power-I	50	50	6,054	13.9760	16.3	86	135	2
20	DIN Energy	50	50	6,152	14.0102	16.5	88	137	2
21	Tricon Boston-C	50	50	5,602	37.0000	15.1	0	140	5
22	Tricon Boston-B	50	50	5,676	37.0000	15.3	0	140	5
23	Foundation Wind Energy-II	50	50	4,847	21.3302	13.0	350	0	0
24	Liberty Wind Power-II	50	50	6,319	13.9760	17.0	90	136	2
25	Master Green Energy	50	50	5,085	13.9754	13.7	75	158	2
26	Artistic Wind Power	50	50	6,425	13.8538	17.3	121	132	2
27	Tricon Boston-A	50	50	6,046	37.1383	16.3	659	144	5
28	Lakeside Energy Limited	50	50	6,444	13.7590	17.3	108	158	2
29	Lucky Renewables	50	50	5,949	14.4448	16.0	77	134	2
30	NASDA Green Energy	50	50	6,639	13.7906	17.8	93	160	2
31	Gul Ahmed Electric	50	50	7,223	13.7996	19.4	109	157	2
32	ACT2 DIN Wind	50	50	6,589	13.8538	17.7	93	139	2
33	Indus Wind Energy	50	50	7,391	14.0409	19.9	106	141	2
34	Zephyr Power	50	50	7,075	32.7148	19.0	1,007	160	5
35	Artistic Energy	50	49	6,555	20.5391	17.8	141	0	0
36	Metro Wind Power	60	60	10,103	16.7346	22.6	172	185	3
	Total	**1,848**	**1,843**	**189,981**	**-**	**13.9**	**7,015**	**3,804**	**106**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,521	29.0167	17.0	44	0	0
2	Quaid E Azam Solar	100	100	13,905	30.0236	18.7	418	0	0
3	Best Green Energy Pakistan	100	100	14,412	47.9198	19.4	691	0	0
4	Appolo Solar Development Pakistan	100	100	14,503	45.7927	19.5	664	0	0
5	Crest Energy Pakistan	100	100	14,666	48.3369	19.7	709	0	0
6	Harappa Solar	18	18	2,367	29.2819	17.7	63	56	1
7	Atlas Solar	100	100	14,689	13.2715	19.7	195	0	0
8	HNDS Energy	50	50	7,590	-	20.4	52	0	0
9	Helios Power	50	50	7,728	11.1979	20.8	53	0	0
10	Meridian Energy	50	50	7,684	-	20.7	52	0	0
	Total	**680**	**680**	**99,065**	**-**	**19.6**	**2,941**	**57**	**1**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
November, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	November, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	1,660	45.6427	4.4	85	142	6
2	FFC Energy Limited	50	50	1,290	13.1440	3.6	37	43	1
3	Gul Ahmed Wind Power	50	50	2,080	41.1722	5.8	92	162	7
4	Yunus Energy	50	50	2,050	35.4475	5.7	79	172	6
5	UEP Wind Power	99	99	3,960	47.1452	5.6	199	254	12
6	Master Wind Energy	50	50	1,730	41.1722	4.9	71	160	7
7	Three Gorges Second Wind Farm Pakistan	50	50	2,330	36.9001	6.5	84	193	7
8	Three Gorges Third Wind Farm Pakistan	50	50	2,160	37.0000	6.1	256	202	7
9	Zorlu Enerji Pakistan	56	56	2,290	19.1436	5.6	105	45	1
10	Three Gorges First Wind Farm Pakistan	50	50	1,950	16.9598	5.5	285	27	0
11	Hydrochina Dawood Power	50	50	1,440	47.1452	4.0	142	143	7
12	Sachal Energy Development	50	50	2,230	43.8313	6.3	145	0	0
13	Tenaga Generasi	50	50	1,450	43.9146	4.0	68	164	7
14	Hawa Energy	50	50	2,870	36.2568	8.0	112	209	8
15	Metro Power Company	50	50	2,340	35.2189	6.5	83	32	1
16	ACT Wind	30	30	1,190	29.8504	5.5	70	2	0
17	Jhimpir Power	50	50	2,830	36.2568	7.9	110	199	7
18	Foundation Wind Energy-I	50	50	1,310	40.4213	3.6	168	0	0
19	Liberty Wind Power-I	50	50	2,920	13.9760	8.1	44	225	3
20	DIN Energy	50	50	2,940	14.0102	8.2	44	234	3
21	Tricon Boston-C	50	50	2,920	37.0000	8.2	0	171	6
22	Tricon Boston-B	50	50	3,040	37.0000	8.5	0	168	6
23	Foundation Wind Energy-II	50	50	1,450	21.3302	4.0	-166	0	0
24	Liberty Wind Power-II	50	50	2,990	13.9760	8.3	45	219	3
25	Master Green Energy	50	50	3,600	13.9754	10.0	51	200	3
26	Artistic Wind Power	50	50	3,220	13.8538	8.9	48	217	3
27	Tricon Boston-A	50	50	3,380	37.1383	9.4	365	150	6
28	Lakeside Energy Limited	50	50	3,570	13.7590	9.9	48	193	3
29	Lucky Renewables	50	50	3,640	14.4448	10.1	60	213	3
30	NASDA Green Energy	50	50	3,490	13.7906	9.7	51	219	3
31	Gul Ahmed Electric	50	50	4,260	13.7996	11.8	129	202	3
32	ACT2 DIN Wind	50	50	3,380	13.8538	9.4	97	234	3
33	Indus Wind Energy	50	50	3,730	14.0409	10.4	108	222	3
34	Zephyr Power	50	50	2,740	32.7148	7.6	67	102	3
35	Artistic Energy	50	49	3,450	20.5391	9.7	74	10	0
36	Metro Wind Power	60	60	6,130	16.7346	14.2	107	236	4
	Total	**1,848**	**1,843**	**98,010**	-	**7.4**	**3,360**	**5,363**	**143**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	980	29.0167	11.3	52	1	0
2	Quaid E Azam Solar	100	100	9,580	30.0236	13.3	342	0	0
3	Best Green Energy Pakistan	100	100	10,210	47.9198	14.2	489	0	0
4	Appolo Solar Development Pakistan	100	100	10,200	45.7927	14.2	467	0	0
5	Crest Energy Pakistan	100	100	10,340	48.3369	14.4	500	0	0
6	Harappa Solar	18	18	1,330	29.2819	10.3	55	47	1
7	Atlas Solar	100	100	8,280	13.2715	11.5	254	160	2
8	HNDS Energy	50	50	5,980	-	16.6	41	0	0
9	Helios Power	50	50	6,120	11.1979	17.0	42	0	0
10	Meridian Energy	50	50	6,060	-	16.8	42	0	0
	Total	**680**	**680**	**69,080**	**-**	**14.1**	**2,284**	**208**	**4**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
December, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	December, 2024					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	5,230	45.6427	13.3	359	2,568	117
2	FFC Energy Limited	50	50	7,400	13.1440	20.1	51	0	0
3	Gul Ahmed Wind Power	50	50	6,420	41.1722	17.3	373	2,636	109
4	Yunus Energy	50	50	6,390	35.4475	17.2	319	2,619	93
5	UEP Wind Power	99	99	9,150	47.1452	12.4	638	4,369	206
6	Master Wind Energy	50	50	5,880	41.1722	16.0	346	2,519	104
7	Three Gorges Second Wind Farm Pakistan	50	50	6,500	36.9001	17.6	510	2,756	103
8	Three Gorges Third Wind Farm Pakistan	50	50	6,140	37.0000	16.7	345	2,854	105
9	Zorlu Enerji Pakistan	56	56	7,830	19.1436	18.7	-7	0	0
10	Three Gorges First Wind Farm Pakistan	50	50	7,620	16.9598	20.7	72	0	0
11	Hydrochina Dawood Power	50	50	4,180	47.1452	11.4	293	2,040	96
12	Sachal Energy Development	50	50	9,360	43.8313	25.4	394	0	0
13	Tenaga Generasi	50	50	4,710	43.9146	12.7	294	1,965	86
14	Hawa Energy	50	50	9,690	36.2568	26.2	463	3,071	111
15	Metro Power Company	50	50	11,780	35.2189	31.7	176	0	0
16	ACT Wind	30	30	4,350	29.8504	19.5	144	2,900	3
17	Jhimpir Power	50	50	7,860	36.2568	21.2	393	2,968	108
18	Foundation Wind Energy-I	50	50	5,490	40.4213	14.8	180	0	0
19	Liberty Wind Power-I	50	50	7,060	13.9760	19.0	143	3,187	45
20	DIN Energy	50	50	8,590	14.0102	23.1	167	3,232	46
21	Tricon Boston-C	50	50	7,290	37.0000	19.7	-	2,873	107
22	Tricon Boston-B	50	50	6,540	37.0000	17.7	-	2,717	101
23	Foundation Wind Energy-II	50	50	8,160	21.3302	21.9	184	182	6
24	Liberty Wind Power-II	50	50	6,490	13.9760	17.4	132	2,942	41
25	Master Green Energy	50	50	7,020	13.9754	18.9	145	3,208	46
26	Artistic Wind Power	50	50	7,520	13.8538	20.2	148	3,180	44
27	Tricon Boston-A	50	50	5,710	37.1383	15.4	928	2,569	95
28	Lakeside Energy Limited	50	50	7,030	13.7590	18.9	142	3,304	45
29	Lucky Renewables	50	50	7,560	14.4448	20.3	152	3,117	45
30	NASDA Green Energy	50	50	7,370	13.7906	19.8	147	3,217	45
31	Gul Ahmed Electric	50	50	6,830	13.7996	18.4	138	3,142	43
32	ACT2 DIN Wind	50	50	6,690	13.8538	18.0	93	2,900	40
33	Indus Wind Energy	50	50	7,160	14.0409	19.2	156	3,145	44
34	Zephyr Power	50	50	6,790	32.7148	18.3	137	0	0
35	Artistic Energy	50	49	13,110	20.5391	35.7	394	373	8
36	Metro Wind Power	60	60	8,730	16.7346	19.6	209	3,780	63
	Total	**1,848**	**1,843**	**261,630**	**-**	**19.1**	**8,756**	**80,333**	**2,106**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,196	29.0167	13.4	35	2	0
2	Quaid E Azam Solar	100	100	10,620	30.0236	14.3	669	0	0
3	Best Green Energy Pakistan	100	100	11,470	47.9198	15.4	550	0	0
4	Appolo Solar Development Pakistan	100	100	11,409	45.7927	15.3	522	0	0
5	Crest Energy Pakistan	100	100	11,533	48.3369	15.5	557	0	0
6	Harappa Solar	18	18	1,564	29.2819	11.7	43	0	0
7	Atlas Solar	100	100	10,893	13.2715	14.6	153	0	0
8	HNDS Energy	50	50	5,670	-	15.2	40	101	1
9	Helios Power	50	50	5,630	11.1979	15.1	40	99	1
10	Meridian Energy	50	50	5,830	-	15.7	41	100	1
	Total	**680**	**680**	**75,816**	**-**	**15.0**	**2,650**	**302**	**2**

Note:

1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP and NPMV has been provided by CPPA-G.
4. The CPP of Tricon Boston-A also includes the CPP of Tricon Boston-B and Tricon Boston-C.

Annex-I
October - December, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October-December, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	27,049	9.0579	81.7	207	200
2	Chanar Energy	22	22	2,810	9.3491	5.8	22	20
3	Thal Industries Corporation	41	22	15,630	9.1903	31.6	122	115
4	Almoiz Industries	36	21	4,960	9.3489	10.9	-551	37
5	RYK Mills	40	40	15,611	8.6965	17.7	114	115
6	Chiniot Power	63	63	46,610	9.9417	33.5	390	351
7	JDW-III	27	24	45,748	8.6967	84.9	116	321
8	JDW-II	26	24	45,138	8.6967	83.9	85	317
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	0
	Total	**302**	**254**	**203,556**	**-**	**36.3**	**504**	**1,476**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
October, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	8,640	9.0579	77.4	66	64
2	Chanar Energy	22	22	0	9.3491	0.0	0	0
3	Thal Industries Corporation	41	22	0	9.1903	0.0	0	0
4	Almoiz Industries	36	21	0	9.3489	0.0	-591	0
5	RYK Mills	40	40	0	8.6965	0.0	0	0
6	Chiniot Power	63	63	6,351	9.9417	13.5	0	48
7	JDW-III	27	24	17,723	8.6967	97.6	26	114
8	JDW-II	26	24	17,551	8.6967	96.8	25	113
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	-
	Total	**302**	**254**	**50,264**	**-**	**22.4**	**-473**	**339**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
November, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	November, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	8,770	9.0579	81.2	67	65
2	Chanar Energy	22	22	62	9.3491	0.4	0	0
3	Thal Industries Corporation	41	22	2,185	9.1903	13.5	33	16
4	Almoiz Industries	36	21	842	9.3489	5.7	7	6
5	RYK Mills	40	40	1,616	8.6965	5.6	12	12
6	Chiniot Power	63	63	13,957	9.9417	30.8	170	105
7	JDW-III	27	24	12,566	8.6967	71.5	68	93
8	JDW-II	26	24	12,228	8.6967	69.7	39	90
9	Shahtaj Sugar Mills	32	22	0	-	0.0	-	
	Total	**302**	**254**	**52,226**	**-**	**28.6**	**396**	**387**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
December, 2024
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	December, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	9,640	9.0579	86.4	74	71
2	Chanar Energy	22	22	2,747	9.3491	16.8	22	20
3	Thal Industries Corporation	41	22	13,445	9.1903	80.6	89	99
4	Almoiz Industries	36	21	4,118	9.3489	26.8	33	30
5	RYK Mills	40	40	13,995	8.6965	47.0	102	103
6	Chiniot Power	63	63	26,302	9.9417	56.1	220	198
7	JDW-III	27	24	15,458	8.6967	85.1	22	114
8	JDW-II	26	24	15,359	8.6967	84.7	20	113
9	Shahtaj Sugar Mills	32	22	0	-	0.0	-	-
	Total	**302**	**254**	**101,066**	**-**	**53.5**	**581**	**750**

Note:
1. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
2. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
3. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
October - December, 2024
Thermal

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October, 2024				November, 2024				December, 2024				October-December, 2024			
				Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost
		MW	MW	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million
A. THERMAL (Gas)																			
1	BQPS II	573	526	23,558	-	6.0	227	0	-	0.0	0	0	-	0.0	0	23,558	-	2.0	227
2	KCCP	248	227	1,244	-	0.7	15	0	-	0.0	0	0	-	0.0	0	1,244	-	0.2	15
3	BQPS I	840	730	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
4	KGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
5	SGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
6	SNPC-I	52	51	21,074	4.2759	55.5	227	25,420	4.2759	69.2	273	20,852	4.2759	55.0	224	67,346	4.2759	59.8	724
7	SNPC-II	52	51	21,201	4.2451	55.9	227	25,490	4.2451	69.4	273	19,416	4.2451	51.2	207	66,107	4.2451	58.7	707
	Total (Gas)	**1,979**	**1,777**	**67,077**	**-**	**5.1**	**695**	**50,910**	**-**	**4.0**	**546**	**40,268**	**-**	**3.0**	**431**	**158,255**	**-**	**4.0**	**1,673**
A. THERMAL (Coal-Imported)																			
1	FFBL Power Company Ltd.	52	52	39,499	2.3240	102.1	799	32,100	2.3240	85.7	613	3,180	2.3240	8.2	60	74,779	2.3240	65.1	1,472
	Total (Coal-Imported)	**52**	**52**	**39,499**	**-**	**102.1**	**799**	**32,100**	**-**	**85.7**	**613**	**3,180**	**-**	**8.2**	**60**	**74,779**	**-**	**65.1**	**1,472**
A. THERMAL (RLNG)																			
1	BQPS-III	942	918	496,901	-	72.8	10,441	294,582	-	44.6	6,270	180,202	-	26.4	3,743	971,685	-	47.9	20,454
2	BQPS -II	573	526	220,713	-	56.4	6,277	72,144	-	19.0	2,149	7,295	-	1.9	190	300,152	-	25.8	8,616
3	BQPS-I	840	730	18,061	-	3.3	692	330	-	0.1	13	0	-	0.0	0	18,391	-	1.2	705
4	KCCP	248	227	25,464	-	15.1	895	995	-	0.6	39	0	-	0.0	0	26,459	-	5.4	934
5	KGTPS	107	96	2,113	-	3.0	74	307	-	0.4	11	0	-	0.0	0	2,420	-	1.2	85
6	SGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
7	ISL	19	17	2,430	-	19.2	24	1,428	-	11.7	45	159	-	1.3	0	4,017	-	10.9	69
8	Lucky	30	5	366	-	9.8	12	260	-	7.2	8	205	-	5.5	7	831	-	7.5	27
	Total (RLNG)	**2,866**	**2,615**	**766,048**	**-**	**39.4**	**18,415**	**370,046**	**-**	**19.7**	**8,535**	**187,861**	**-**	**9.7**	**3,940**	**1,323,955**	**-**	**22.9**	**30,890**
A. THERMAL (RFO)																			
1	BQPS-I	840	730	12,567	-	2.3	542	1,465	-	0.3	62	0	-	0.0	0	14,032	-	0.9	604
2	Gul Ahmed Energy Ltd.	136	128	12,300	-	12.9	400	314	-	0.3	10	0	-	0.0		12,614	-	4.5	410
	Total (RFO)	**840**	**858**	**24,867**	**-**	3.9	**942**	**1,779**	**-**	**0.3**	**72**	**0**	**-**	**0.0**	**0**	**26,646**	**-**	**1.4**	**1,014**
A. THERMAL (HSD)																			
1	KCCP	248	227	1,311	-	0.8	80	0	-	0.0	0	0	-	0.0	0	1,311	-	0.3	80
	Total (HSD)	**248**	**227**	**1,311**	**-**	**0.8**	**80**	**0**	**-**	**0.0**	**0**	**0**	**-**	**0.0**	**0**	**1,311**	**-**	**0.3**	**80**

Annex-I
October - December, 2024
Renewable

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	October, 2024					November, 2024					December, 2024					October-December, 2024				
				Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost
		MW	MW	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million
B. RENEWABLE (Solar)																							
1	OURSUN Pakistan Ltd.	50	50	7,732	-	20.8	0	246	7,204	-	20.0	0	191	7,187	-	19.3	0	218	22,123	-	20.0	0	**655**
2	Gharo Solar Ltd.	50	50	8,439	-	22.7	0	149	7,447	-	20.7	0	131	7,086	-	19.0	0	79	22,972	-	20.8	0	**359**
	Total (Solar)	**100**	**100**	**16,171**	**-**	**21.7**	**0**	**395**	**14,651**	**-**	**20.3**	**0**	**322**	**14,273**	**-**	**19.2**	**0**	**297**	**45,095**	**-**	**20.4**	**0**	**1,014**

Annex-I
January - March, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January-March, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	469	0	-
2	Guddu 747	747	720	619,441	-	39.8	3,494	7,420	-
3	Engro Powergen Qadirpur	227	213	212,008	1.6581	46.2	78	2,387	267
4	Liberty Daharki Power	235	221	141,604	-	29.7	409	4,123	-
5	Uch-II Power	404	356	498,776	6.6411	64.9	5,427	7,246	121
6	Foundation Power Company Daharki	179	169	247,198	2.1987	67.9	542	101	137
7	Uch Power	586	548	1,045,164	-	88.3	2,010	14,202	-
	Total	**2,378**	**2,225**	**2,764,191**	**-**	**57.5**	**12,429**	**35,480**	**525**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	334,360	11.86*	51.5	7,621	6,047	-
2	Engro Powergen Thar	660	601	762,378	11.39*	58.8	14,673	13,353	-
3	Thar Coal Block-1	1,320	1,214	2,204,738	11.76*	84.1	19,830	30,406	-
4	ThalNova Power Thar	330	301	403,808	11.80*	62.2	6,897	4,847	-
	Total	**2,640**	**2,416**	**3,705,285**	**-**	**71.0**	**49,022**	**54,653**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	264,676	11.8900	9.8	30,884	5,028	-
2	Lucky Electric Power Company	660	607	0	8.6300	0.0	11,257	2,315	-
3	Port Qasim Electric Power	1,320	1,243	46,736	9.9500	1.7	26,954	818	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	964,289	9.8300	35.9	26,121	18,178	-
	Total	**4,620**	**4,342**	**1,275,701**	**-**	**13.6**	**95,216**	**26,339**	**-**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	0	-	0.0	766	0	-
3	Saif Power	225	210	21,544	1.8527	4.7	534	609	44
4	Punjab Thermal Power	1,263	1,244	315,957	-	11.8	1,009	8,059	1,002
5	Sapphire Electric Company	235	212	31,341	1.8600	6.8	-1,098	925	70
6	Halmore Power Generation	225	209	64,659	2.4556	14.3	1,195	1,829	132
7	Orient Power Company	225	213	85,861	2.2913	18.7	1,060	2,379	152
8	Nandipur	567	525	85,930	-	7.6	16,136	0	-
9	Bhikki	1,231	1,117	1,676,302	2.6129	69.5	5,741	35,819	3,000
10	Balloki	1,276	1,169	894,391	2.3754	35.4	5,045	19,336	2,450
11	Haveli Bahadur Shah	1,277	1,180	874,653	2.4391	34.3	5,192	18,857	
	Total	**7,144**	**6,232**	**4,050,638**	**-**	**30.1**	**35,579**	**87,812**	**6,850**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	350	0	-
2	TPS Jamshoro	880	312	0	-	0.0	418	-36	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	0	5,939	-	0.0	709	216	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	12,313	0.5726	2.9	1,273	433	-
8	Narowal Energy	214	214	12,824	1.0145	2.8	676	-185	-
9	Atlas Power	224	0	0	-	0.0	-873	0	-
10	Liberty Power Tech	202	196	17,572	0.7884	4.2	421	605	-
11	Nishat Power	202	195	21,159	0.5740	5.0	836	708	-
12	Attock Gen.	165	156	23,157	0.6063	6.9	-7,917	725	44
13	Kohinoor Energy	131	124	19,774	-	7.4	279	618	-
	Total	**5,725**	**1,393**	**112,737**	**-**	**3.7**	**-3,828**	**3,084**	**44**
NUCLEAR									
1	Chashma Nuclear-II	325	315	674,083	6.8259	99.1	5,597	1,401	-
2	Karachi Nuclear-3	1,145	1,018	1,521,531	11.1084	69.2	30,105	3,988	-
3	Chashma Nuclear-IV	340	315	674,436	16.6454	99.1	11,642	2,275	-
4	Karachi Nuclear-2	1,145	1,018	2,043,862	10.4046	93.0	23,015	3,597	-
5	Chashma Nuclear-III	340	315	675,356	16.7287	99.3	11,706	1,162	-
6	Chashma Nuclear-I	325	315	649,834	6.3321	95.5	5,290	2,606	-
	Total	**3,620**	**3,296**	**6,239,102**	**-**	**87.6**	**87,356**	**15,029**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024, while the PPA of Pakgen was terminated on 31-01-2025.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
January, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	234	0	-
2	Guddu 747	747	720	260,972	-	48.7	183	3,129	-
3	Engro Powergen Qadirpur	227	213	66,825	1.6581	42.3	181	773	108
4	Liberty Daharki Power	235	221	79,542	-	48.5	421	2,333	-
5	Uch-II Power	404	356	219,795	6.6411	83.1	1,943	3,195	69
6	Foundation Power Company Daharki	179	169	99,586	2.1987	79.4	233	1,003	63
7	Uch Power	586	548	342,330	-	84.0	704	4,662	-
	Total	**2,378**	**2,225**	**1,069,050**	**-**	**64.6**	**3,900**	**15,095**	**240**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	128,951	11.86*	57.6	2,622	1,977	-
2	Engro Powergen Thar	660	601	294,235	11.39*	65.8	5,076	4,492	-
3	Thar Coal Block-1	1,320	1,214	724,560	11.76*	80.2	10,655	9,677	-
4	ThalNova Power Thar	330	301	120,938	11.80*	54.1	1,882	1,935	-
	Total	**2,640**	**2,416**	**1,268,684**	**-**	**70.6**	**20,235**	**18,081**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	0	11.8900	0.0	9,895	0	-
2	Lucky Electric Power Company	660	607	0	8.6300	0.0	4,798	0	-
3	Port Qasim Electric Power	1,320	1,243	32,955	9.9500	3.6	9,168	513	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	601,100	9.8300	65.0	8,999	11,121	-
	Total	**4,620**	**4,342**	**634,055**	**-**	**19.6**	**32,861**	**11,634**	**-**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	0	-	0.0	255	0	-
3	Saif Power	225	210	3,174	1.8527	2.0	201	94	9
4	Punjab Thermal Power	1,263	1,244	257,011	-	27.8	783	6,726	782
5	Sapphire Electric Company	235	212	13,826	1.8600	8.8	204	431	34
6	Halmore Power Generation	225	209	24,638	2.4556	15.8	422	707	56
7	Orient Power Company	225	213	28,927	2.2913	18.3	368	820	60
8	Nandipur	567	525	0	-	0.0	1,802	0	-
9	Bhikki	1,231	1,117	688,070	2.6129	82.8	4,386	15,615	1,151
10	Balloki	1,276	1,169	522,332	2.3754	60.0	2,002	11,423	659
11	Haveli Bahadur Shah	1,277	1,180	4,310	2.4391	0.5	2,109	-866	
	Total	**7,144**	**6,232**	**1,542,288**	**-**	**33.3**	**12,532**	**34,950**	**2,751**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	318	0	-
2	TPS Jamshoro	880	312	0	-	0.0	305	-36	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	350	5,939	-	2.3	733	216	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	11,890	0.5726	8.2	547	419	-
8	Narowal Energy	214	214	12,563	1.0145	7.9	414	454	-
9	Atlas Power	224	0	0	-	0.0	-873	0	-
10	Liberty Power Tech	202	196	17,418	0.7884	11.9	231	599	-
11	Nishat Power	202	195	20,983	0.5740	14.5	365	702	-
12	Attock Gen.	165	156	22,093	0.6063	19.0	249	691	21
13	Kohinoor Energy	131	124	18,234	-	19.8	206	570	-
	Total	**5,725**	**1,743**	**109,119**	**-**	**8.4**	**2,495**	**3,615**	**21**
NUCLEAR									
1	Chashma Nuclear-II	325	315	233,640	6.8259	99.7	1,927	486	-
2	Karachi Nuclear-3	1,145	1,018	564,734	11.1084	74.6	14,062	868	-
3	Chashma Nuclear-IV	340	315	232,229	16.6454	99.1	4,010	1,319	-
4	Karachi Nuclear-2	1,145	1,018	681,716	10.4046	90.0	7,914	1,191	-
5	Chashma Nuclear-III	340	315	232,717	16.7287	99.3	4,032	400	-
6	Chashma Nuclear-I	325	315	224,337	6.3321	95.7	1,826	1,743	-
	Total	**3,620**	**3,296**	**2,169,373**	**-**	**88.5**	**33,770**	**6,007**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3.As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
February, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	February, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	235	0	-
2	Guddu 747	747	720	168,368	-	34.8	2,241	2,012	-
3	Engro Powergen Qadirpur	227	213	64,822	1.6581	45.4	660	740	87
4	Liberty Daharki Power	235	221	62,063	-	41.9	421	1,790	-
5	Uch-II Power	404	356	55,776	6.6411	23.3	1,932	1,744	16
6	Foundation Power Company Daharki	179	169	39,827	2.1987	35.2	228	394	34
7	Uch Power	586	548	325,631	-	88.4	628	4,464	0
	Total	**2,378**	**2,225**	**716,487**	**-**	**47.9**	**6,346**	**11,144**	**137**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	45,805	11.86*	22.7	2,420	2,159	-
2	Engro Powergen Thar	660	601	187,721	11.39*	46.5	4,648	3,811	-
3	Thar Coal Block-1	1,320	1,214	677,101	11.76*	83.0	9,819	11,608	-
4	ThalNova Power Thar	330	301	132,667	11.80*	65.7	2,425	1,942	-
	Total	**2,640**	**2,416**	**1,043,294**	**-**	**64.3**	**19,311**	**19,519**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	108,269	11.8900	11.7	10,770	1,962	-
2	Lucky Electric Power Company	660	607	0	8.6300	0.0	3,783	2,315	-
3	Port Qasim Electric Power	1,320	1,243	0	9.9500	0.0	8,629	51	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	0	9.8300	0.0	8,237	-3	-
	Total	**4,620**	**4,342**	**108,269**	**-**	**3.4**	**31,419**	**4,325**	**-**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0		-
2	Fauji Kabirwala Power	170	151	0	-	0.0	255	0	-
3	Saif Power	225	210	0	1.8527	0.0	195	0	-
4	Punjab Thermal Power	1,263	1,244	17,362	-	2.1	226	423	61
5	Sapphire Electric Company	235	212	0	1.8600	0.0	213	0	-
6	Halmore Power Generation	225	209	3,362	2.4556	2.4	401	95	6
7	Orient Power Company	225	213	4,550	2.2913	3.2	325	126	7
8	Nandipur	567	525	0	-	0.0	13,583	0	-
9	Bhikki	1,231	1,117	447,346	2.6129	59.6	-431	9,709	777
10	Balloki	1,276	1,169	372,059	2.3754	47.3	1,339	8,086	749
11	Haveli Bahadur Shah	1,277	1,180	135,569	2.4391	17.1	1,170	3,468	
	Total	**7,144**	**6,232**	**980,248**	**-**	**23.4**	**17,276**	**21,908**	**1,600**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	218	0	-
2	TPS Jamshoro	880	312	0	-	0.0	113	0	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	0	0	-	0.0	0	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	0	0.5726	0.0	561	0	-
8	Narowal Energy	214	214	0	1.0145	0.0	486	0	-
9	Atlas Power	224	0	0	-	0.0	0	0	-
10	Liberty Power Tech	202	196	0	0.7884	0.0	328	0	-
11	Nishat Power	202	195	0	0.5740	0.0	349	0	-
12	Attock Gen.	165	156	0	0.6063	0.0	240	0	-
13	Kohinoor Energy	131	124	0	-	0.0	206	0	-
	Total	**5,725**	**1,393**	**0**	**-**	**0.0**	**2,501**	**0**	**-**
NUCLEAR									
1	Chashma Nuclear-II	325	315	209,451	6.8259	89.4	1,743	435	-
2	Karachi Nuclear-3	1,145	1,018	396,149	11.1084	52.3	7,609	539	-
3	Chashma Nuclear-IV	340	315	210,405	16.6454	89.8	3,625	455	-
4	Karachi Nuclear-2	1,145	1,018	618,062	10.4046	81.6	7,162	1,092	-
5	Chashma Nuclear-III	340	315	210,393	16.7287	89.8	3,645	362	-
6	Chashma Nuclear-I	325	315	202,477	6.3321	86.4	1,649	411	-
	Total	**3,620**	**3,296**	**1,846,937**	**-**	**75.3**	**25,433**	**3,294**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024, while the PPA of Pakgen was terminated on 31-01-2025.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
March, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	March, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	-	0	-
2	Guddu 747	747	720	190,101	-	35.5	1,069	2,279	-
3	Engro Powergen Qadirpur	227	213	80,361	1.6581	50.8	-764	875	72
4	Liberty Daharki Power	235	221	0	-	0.0	-433	0	-
5	Uch-II Power	404	356	223,205	6.6411	84.4	1,552	2,308	36
6	Foundation Power Company Daharki	179	169	107,785	2.1987	85.9	82	-1,295	40
7	Uch Power	586	548	377,203	-	92.5	678	5,076	-
	Total	**2,378**	**2,225**	**978,655**	**-**	**59.1**	**2,183**	**9,242**	**148**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	159,604	11.86*	71.3	2,580	1,911	-
2	Engro Powergen Thar	660	601	280,422	11.39*	62.8	4,949	5,051	-
3	Thar Coal Block-1	1,320	1,214	803,077	11.76*	88.9	-644	9,121	-
4	ThalNova Power Thar	330	301	150,203	11.80*	67.1	2,590	970	-
	Total	**2,640**	**2,416**	**1,393,307**	**-**	**77.5**	**9,475**	**17,053**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	156,407	11.8900	16.8	10,219	3,066	-
2	Lucky Electric Power Company	660	607	0	8.6300	0.0	2,676	0	-
3	Port Qasim Electric Power	1,320	1,243	13,781	9.9500	1.5	9,157	254	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	363,189	9.8300	39.3	8,885	7,060	-
	Total	**4,620**	**4,342**	**533,377**	**-**	**16.5**	**30,936**	**10,380**	**0**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	0	-	0.0	255	0	-
3	Saif Power	225	210	18,370	1.8527	12.1	138	515	35
4	Punjab Thermal Power	1,263	1,244	41,584	-	4.6	0	910	159
5	Sapphire Electric Company	235	212	17,515	1.8600	11.5	-1,515	494	36
6	Halmore Power Generation	225	209	36,660	2.4556	24.4	372	1,027	70
7	Orient Power Company	225	213	52,384	2.2913	34.2	367	1,433	85
8	Nandipur	567	525	85,930	-	22.7	752	0	-
9	Bhikki	1,231	1,117	540,886	2.6129	67.2	1,785	10,494	1,072
10	Balloki	1,276	1,169	0	2.3754	0.0	1,704	-174	1,042
11	Haveli Bahadur Shah	1,277	1,180	734,774	2.4391	86.4	1,913	16,255	
	Total	**7,144**	**6,232**	**1,528,103**	**-**	**34.1**	**5,771**	**30,954**	**2,499**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	-186	0	-
2	TPS Jamshoro	880	312	0	-	0.0	0	0	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	0	0	-	0.0	-24	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	423	0.5726	0.3	165	14	-
8	Narowal Energy	214	214	261	1.0145	0.2	-224	-639	-
9	Atlas Power	224	0	0	-	0.0	0		-
10	Liberty Power Tech	202	196	154	0.7884	0.1	-138	6	-
11	Nishat Power	202	195	176	0.5740	0.1	122	6	-
12	Attock Gen.	165	156	1,064	0.6063	0.9	-8,406	34	23
13	Kohinoor Energy	131	124	1,540	-	1.7	-134	48	-
	Total	**5,725**	**1,393**	**3,618**	**-**	**0.4**	**-8,825**	**-532**	**23**
NUCLEAR									
1	Chashma Nuclear-II	325	315	230,992	6.8259	98.6	1,928	480	-
2	Karachi Nuclear-3	1,145	1,018	560,648	11.1084	74.0	8,435	2,580	-
3	Chashma Nuclear-IV	340	315	231,802	16.6454	98.9	4,007	501	-
4	Karachi Nuclear-2	1,145	1,018	744,084	10.4046	98.2	7,939	1,314	-
5	Chashma Nuclear-III	340	315	232,246	16.7287	99.1	4,030	400	-
6	Chashma Nuclear-I	325	315	223,020	6.3321	95.2	1,814	452	-
	Total	**3,620**	**3,296**	**2,222,792**	**-**	**93.7**	**28,153**	**5,727**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024, while the PPA of Pakgen was terminated on 31-01-2025.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
January - March, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	January-March, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	138	Rs. 5085/kW/M	0.4	126	0
2	Jinnah Hydel Power Station	WAPDA	96	36	22,238	Rs. 1798/kW/M	28.6	534	9
3	Chitral Hydel Power Station	WAPDA	1	1	575	Rs. 7241/kW/M	26.6	45	0
4	Renala	WAPDA	1	1	246	Rs. 5632/kW/M	11.4	32	0
5	Golen Gol	WAPDA	108	108	7,666	Rs. 3465/kW/M	3.3	2,669	12
6	Rasul Hydel Power Station	WAPDA	22	22	4,183	Rs. 1272/kW/M	8.8	125	1
7	Shadiwal Power Station	WAPDA	14	14	7,912	Rs. 1528/kW/M	26.2	97	2
8	New Bong Escape	Private	84	84	70,174	Rs.14.82/kWh	38.7	1,947	-485
9	Chichoki	WAPDA	13	13	3,157	Rs. 1451/kW/M	11.2	90	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	33,141	Rs. 2062/kW/M	21.3	711	10
11	Malakand-III	PEDO	84	81	23,336	Rs.10.11/kWh	13.3	2,655	164
12	Gulpur	Private	100	100	21,033	Rs. 12702/kW/M	9.7	1,927	10
13	Nandipur Hydel Power Station	WAPDA	14	14	3,048	Rs. 1661/kW/M	10.1	117	1
14	Dargai	WAPDA	20	20	8,132	Rs. 1426/kW/M	18.8	73	2
15	Mangla Power Station	WAPDA	1,000	1,000	569,858	Rs.1017/kW/M	26.4	3,596	61
16	Allai Khwar	WAPDA	121	121	40,772	Rs.1742/kW/M	15.6	826	8
17	Warsak Hydel Power Plant	WAPDA	243	243	111,992	Rs. 1002/kW/M	21.3	984	12
18	Karot	Private	720	720	316,433	-	20.3	17,626	189
19	Kurram Garhi	WAPDA	4	4	2,834	Rs. 3427/kW/M	32.8	60	1
20	Chashma Hydel Power Station	WAPDA	184	184	164,471	Rs. 1909/kW/M	41.4	1,130	34
21	Patrind	Private	147	147	46,270	Rs. 9709/kW/M	14.6	2,940	9
22	Duber Khwar Hydel Power Station	WAPDA	130	130	35,184	Rs. 2319/kW/M	12.5	1,350	12
23	Daral Khwar Hydro Power Station	PEDO	37	37	15,853	Rs. 8.27/kWh	19.8	0	257
24	Ghazi Barotha	WAPDA	1,450	1,450	1,009,826	Rs. 911/kW/M	32.2	4,915	74
25	Suki Kinari	Private	884	883	167,010	Rs. 5270/kW/M	8.8	30,672	51
26	Jagran-I	Public	30	30	5,610	Rs. 3.98/kWh	8.7	0	57
27	Jabban Hydel Power Station	WAPDA	22	22	27,099	Rs. 2870/kW/M	57.0	180	8
28	Tarbela	WAPDA	3,478	3,478	1,150,358	Rs. 590/kW/M	15.3	9,387	46
29	NJHPC	Public	969	969	0	Rs. 9.12/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	178,034	Rs. 978/kW/M	5.8	7,540	22
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	24
	Total		**11,492**	**11,428**	**4,046,581**	**-**	**16.4**	**92,355**	**591**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
January, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	January, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	-39	Rs. 5085/kW/M	-0.3	42	0
2	Jinnah Hydel Power Station	WAPDA	96	36	1,721	Rs. 1798/kW/M	6.4	178	1
3	Chitral Hydel Power Station	WAPDA	1	1	198	Rs. 7241/kW/M	26.6	15	0
4	Renala	WAPDA	1	1	-14	Rs. 5632/kW/M	-1.9	11	0
5	Golen Gol	WAPDA	108	108	3,763	Rs. 3465/kW/M	4.7	890	6
6	Rasul Hydel Power Station	WAPDA	22	22	-156	Rs. 1272/kW/M	-1.0	42	0
7	Shadiwal Power Station	WAPDA	14	14	1,106	Rs. 1528/kW/M	10.6	32	0
8	New Bong Escape	Private	84	84	2,266	Rs.14.82/kWh	3.6	124	1
9	Chichoki	WAPDA	13	13	-29	Rs. 1451/kW/M	-0.3	30	0
10	Khan Khwar Hydel Power Station	WAPDA	72	72	1,719	Rs. 2062/kW/M	3.2	237	1
11	Malakand-III	PEDO	84	81	1,082	Rs.10.11/kWh	1.8	1,329	124
12	Gulpur	Private	100	100	488	Rs. 12702/kW/M	0.7	644	0
13	Nandipur Hydel Power Station	WAPDA	14	14	67	Rs. 1661/kW/M	0.6	39	0
14	Dargai	WAPDA	20	20	4,837	Rs. 1426/kW/M	32.5	45	1
15	Mangla Power Station	WAPDA	1,000	1,000	41,179	Rs.1017/kW/M	5.5	1,265	4
16	Allai Khwar	WAPDA	121	121	1,516	Rs.1742/kW/M	1.7	275	0
17	Warsak Hydel Power Plant	WAPDA	243	243	46,378	Rs. 1002/kW/M	25.7	328	5
18	Karot	Private	720	720	56,477	-	10.5	14,675	104
19	Kurram Garhi	WAPDA	4	4	809	Rs. 3427/kW/M	27.2	20	0
20	Chashma Hydel Power Station	WAPDA	184	184	44,760	Rs. 1909/kW/M	32.7	377	9
21	Patrind	Private	147	147	13,360	Rs. 9709/kW/M	12.2	1,951	2
22	Duber Khwar Hydel Power Station	WAPDA	130	130	6,132	Rs. 2319/kW/M	6.3	450	2
23	Daral Khwar Hydro Power Station	PEDO	37	37	2,968	Rs. 8.27/kWh	10.8	0	150
24	Ghazi Barotha	WAPDA	1,450	1,450	228,726	Rs. 911/kW/M	21.2	1,638	17
25	Suki Kinari	Private	884	883	57,676	Rs. 5270/kW/M	8.8	15,689	18
26	Jagran-I	Public	30	30	1,329	Rs. 3.98/kWh	6.0	0	3
27	Jabban Hydel Power Station	WAPDA	22	22	10,160	Rs. 2870/kW/M	62.1	60	3
28	Tarbela	WAPDA	3,478	3,478	284,259	Rs. 590/kW/M	11.0	3,129	11
29	NJHPC	Public	969	969	0	Rs. 9.12/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	53,643	Rs. 978/kW/M	5.1	2,513	7
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**866,380**	**-**	**10.2**	**46,029**	**468**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
February, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	February, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	220	Rs. 5085/kW/M	1.9	42	0
2	Jinnah Hydel Power Station	WAPDA	96	36	7,105	Rs. 1798/kW/M	29.4	178	3
3	Chitral Hydel Power Station	WAPDA	1	1	179	Rs. 7241/kW/M	26.7	15	0
4	Renala	WAPDA	1	1	110	Rs. 5632/kW/M	16.3	11	0
5	Golen Gol	WAPDA	108	108	2,005	Rs. 3465/kW/M	2.8	890	3
6	Rasul Hydel Power Station	WAPDA	22	22	1,699	Rs. 1272/kW/M	11.5	42	0
7	Shadiwal Power Station	WAPDA	14	14	2,258	Rs. 1528/kW/M	24.0	32	1
8	New Bong Escape	Private	84	84	40,040	Rs.14.82/kWh	70.9	1,253	-513
9	Chichoki	WAPDA	13	13	1,052	Rs. 1451/kW/M	12.0	30	0
10	Khan Khwar Hydel Power Station	WAPDA	72	72	6,836	Rs. 2062/kW/M	14.1	237	2
11	Malakand-III	PEDO	84	81	2,903	Rs.10.11/kWh	5.3	114	1
12	Gulpur	Private	100	100	3,949	Rs. 12702/kW/M	5.9	640	5
13	Nandipur Hydel Power Station	WAPDA	14	14	1,015	Rs. 1661/kW/M	10.8	39	0
14	Dargai	WAPDA	20	20	3,273	Rs. 1426/kW/M	24.4	28	1
15	Mangla Power Station	WAPDA	1,000	1,000	351,288	Rs.1017/kW/M	52.3	1,295	38
16	Allai Khwar	WAPDA	121	121	10,480	Rs.1742/kW/M	12.9	275	2
17	Warsak Hydel Power Plant	WAPDA	243	243	12,570	Rs. 1002/kW/M	7.7	328	1
18	Karot	Private	720	720	58,599	-	12.1	1,060	21
19	Kurram Garhi	WAPDA	4	4	905	Rs. 3427/kW/M	33.7	20	0
20	Chashma Hydel Power Station	WAPDA	184	184	71,655	Rs. 1909/kW/M	58.0	377	15
21	Patrind	Private	147	147	11,516	Rs. 9709/kW/M	11.7	517	-20
22	Duber Khwar Hydel Power Station	WAPDA	130	130	5,777	Rs. 2319/kW/M	6.6	450	2
23	Daral Khwar Hydro Power Station	PEDO	37	37	2,691	Rs. 8.27/kWh	10.8	0	22
24	Ghazi Barotha	WAPDA	1,450	1,450	532,857	Rs. 911/kW/M	54.7	1,638	39
25	Suki Kinari	Private	884	883	44,654	Rs. 5270/kW/M	7.5	2,474	14
26	Jagran-I	Public	30	30	845	Rs. 3.98/kWh	4.2	0	43
27	Jabban Hydel Power Station	WAPDA	22	22	6,864	Rs. 2870/kW/M	46.4	60	2
28	Tarbela	WAPDA	3,478	3,478	575,655	Rs. 590/kW/M	24.6	3,129	23
29	NJHPC	Public	969	969	0	Rs. 9.12/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	124,391	Rs. 978/kW/M	13.1	2,513	15
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	24
	Total		**11,492**	**11,428**	**1,883,387**	**-**	**24.5**	**17,687**	**-256**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
March, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	March, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	-42	Rs. 5085/kW/M	-0.3	42	0
2	Jinnah Hydel Power Station	WAPDA	96	36	13,412	Rs. 1798/kW/M	50.1	178	6
3	Chitral Hydel Power Station	WAPDA	1	1	197	Rs. 7241/kW/M	26.5	15	0
4	Renala	WAPDA	1	1	151	Rs. 5632/kW/M	20.3	11	0
5	Golen Gol	WAPDA	108	108	1,897	Rs. 3465/kW/M	2.4	890	3
6	Rasul Hydel Power Station	WAPDA	22	22	2,640	Rs. 1272/kW/M	16.1	42	1
7	Shadiwal Power Station	WAPDA	14	14	4,549	Rs. 1528/kW/M	43.7	32	1
8	New Bong Escape	Private	84	84	27,868	Rs.14.82/kWh	44.6	570	27
9	Chichoki	WAPDA	13	13	2,134	Rs. 1451/kW/M	22.1	30	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	24,586	Rs. 2062/kW/M	45.9	237	7
11	Malakand-III	PEDO	84	81	19,350	Rs.10.11/kWh	32.1	1,212	39
12	Gulpur	Private	100	100	16,596	Rs. 12702/kW/M	22.3	644	5
13	Nandipur Hydel Power Station	WAPDA	14	14	1,966	Rs. 1661/kW/M	18.9	39	1
14	Dargai	WAPDA	20	20	22	Rs. 1426/kW/M	0.1	0	0
15	Mangla Power Station	WAPDA	1,000	1,000	177,391	Rs.1017/kW/M	23.8	1,036	19
16	Allai Khwar	WAPDA	121	121	28,777	Rs.1742/kW/M	32.0	275	6
17	Warsak Hydel Power Plant	WAPDA	243	243	53,044	Rs. 1002/kW/M	29.3	328	6
18	Karot	Private	720	720	201,357	-	37.6	1,891	64
19	Kurram Garhi	WAPDA	4	4	1,120	Rs. 3427/kW/M	37.6	20	1
20	Chashma Hydel Power Station	WAPDA	184	184	48,056	Rs. 1909/kW/M	35.1	377	10
21	Patrind	Private	147	147	21,394	Rs. 9709/kW/M	19.6	472	27
22	Duber Khwar Hydel Power Station	WAPDA	130	130	23,275	Rs. 2319/kW/M	24.1	450	8
23	Daral Khwar Hydro Power Station	PEDO	37	37	10,194	Rs. 8.27/kWh	37.0	0	84
24	Ghazi Barotha	WAPDA	1,450	1,450	248,243	Rs. 911/kW/M	23.0	1,638	18
25	Suki Kinari	Private	884	883	64,680	Rs. 5270/kW/M	9.8	12,509	20
26	Jagran-I	Public	30	30	3,436	Rs. 3.98/kWh	15.4	0	11
27	Jabban Hydel Power Station	WAPDA	22	22	10,076	Rs. 2870/kW/M	61.6	60	3
28	Tarbela	WAPDA	3,478	3,478	290,444	Rs. 590/kW/M	11.2	3,129	12
29	NJHPC	Public	969	969	0	Rs. 9.12/kWh	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	0	Rs. 978/kW/M	0.0	2,513	0
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**1,296,814**	**-**	**15.3**	**28,640**	**379**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
January - March, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January-March, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	13,624	45.4700	11.9	798	2,416	110
2	FFC Energy Limited	50	50	12,956	13.2200	12.1	199	523	7
3	Gul Ahmed Wind Power	50	50	16,685	40.6100	15.4	929	2,576	105
4	Yunus Energy	50	50	15,819	34.6500	14.6	621	2,729	95
5	UEP Wind Power	99	99	24,759	47.0900	11.6	1,296	3,901	184
6	Master Wind Energy	50	50	12,545	40.6100	11.7	587	2,266	92
7	Three Gorges Second Wind Farm Pakistan	50	50	14,483	36.8800	13.5	616	2,689	100
8	Three Gorges Third Wind Farm Pakistan	50	50	14,930	36.8800	14.0	593	2,781	103
9	Zorlu Enerji Pakistan	56	56	15,465	19.2300	12.7	234	627	12
10	Three Gorges First Wind Farm Pakistan	50	50	13,073	17.0400	12.2	243	1,258	22
11	Hydrochina Dawood Power	50	50	13,670	46.9000	12.8	667	1,581	74
12	Sachal Energy Development	50	50	13,968	41.7600	13.1	727	1,792	31
13	Tenaga Generasi	50	50	14,791	43.5200	13.7	766	695	30
14	Hawa Energy	50	50	18,328	36.0500	17.1	803	2,935	106
15	Metro Power Company	50	50	20,822	34.0700	19.3	639	702	24
16	ACT Wind	30	30	7,468	28.9300	11.5	580	116	3
17	Jhimpir Power	50	50	17,090	36.0500	15.9	744	2,926	106
18	Foundation Wind Energy-I	50	50	14,185	29.9700	13.1	207	447	73
19	Liberty Wind Power-I	50	50	17,499	13.8900	16.2	301	3,371	47
20	DIN Energy	50	50	18,781	13.8300	17.4	869	3,409	47
21	Tricon Boston-C	50	50	19,412	36.9100	18.1	1,797	2,906	107
22	Tricon Boston-B	50	50	18,545	36.9100	17.3	594	2,793	103
23	Foundation Wind Energy-II	50	50	17,800	21.4100	16.5	789	267	6
24	Liberty Wind Power-II	50	50	17,052	13.8900	15.8	292	3,216	45
25	Master Green Energy	50	50	15,467	13.8700	14.3	275	3,048	43
26	Artistic Wind Power	50	50	17,516	13.6700	16.2	246	2,952	37
27	Tricon Boston-A	50	50	18,962	36.9100	17.7	193	2,637	97
28	Lakeside Energy Limited	50	50	19,812	13.6800	18.3	357	3,228	44
29	Lucky Renewables	50	50	16,214	14.3600	15.0	250	3,452	37
30	NASDA Green Energy	50	50	18,911	13.7100	17.5	358	3,231	44
31	Gul Ahmed Electric	50	50	21,572	13.7200	20.0	332	3,192	44
32	ACT2 DIN Wind	50	50	17,369	13.6700	16.1	267	2,807	38
33	Indus Wind Energy	50	50	21,649	13.8600	20.0	287	3,511	49
34	Zephyr Power	50	50	19,537	31.9500	18.1	590	2,282	76
35	Artistic Energy	50	49	24,663	20.2800	23.1	534	1,047	12
36	Metro Wind Power	60	60	26,656	16.5500	20.6	272	3,840	64
	Total	**1,848**	**1,843**	**622,077**	**-**	**15.6**	**19,855**	**84,149**	**2,217**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	4,484	28.9600	17.3	150	593	0
2	Quaid E Azam Solar	100	100	40,288	29.6200	18.7	1,620	0	0
3	Best Green Energy Pakistan	100	100	41,873	47.7000	19.4	2,030	95	5
4	Appolo Solar Development Pakistan	100	100	42,003	45.7900	19.4	2,009	0	0
5	Crest Energy Pakistan	100	100	42,618	48.2200	19.7	2,086	78	4
6	Harappa Solar	18	18	7,042	29.2200	18.1	229	0	0
7	Atlas Solar	100	100	45,143	12.5200	20.9	636	140	2
8	HNDS Energy	50	50	22,354	11.1300	20.7	689	225	2
9	Helios Power	50	50	22,257	11.1300	20.6	683	152	1
10	Meridian Energy	50	50	22,619	11.1300	20.9	697	152	1
	Total	**680**	**680**	**290,682**	**-**	**19.8**	**10,829**	**1,433**	**15**

Note:
No CPP break-up availbale for Tricon Boston, the value is clubbed for all the three WPPs.

Annex-I
January, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	5,183	45.4700	13.2	238	1,336	61
2	FFC Energy Limited	50	50	5,332	13.2200	14.5	65	0	0
3	Gul Ahmed Wind Power	50	50	6,349	40.6100	17.1	435	1,527	62
4	Yunus Energy	50	50	5,968	34.6500	16.0	263	1,596	55
5	UEP Wind Power	99	99	8,298	47.0900	11.3	390	1,985	93
6	Master Wind Energy	50	50	4,521	40.6100	12.3	197	1,266	51
7	Three Gorges Second Wind Farm Pakistan	50	50	5,221	36.8800	14.2	222	1,556	58
8	Three Gorges Third Wind Farm Pakistan	50	50	5,689	36.8800	15.4	219	1,626	60
9	Zorlu Enerji Pakistan	56	56	5,522	19.2300	13.2	61	0	0
10	Three Gorges First Wind Farm Pakistan	50	50	4,690	17.0400	12.7	101	651	11
11	Hydrochina Dawood Power	50	50	4,379	46.9000	11.9	138	970	45
12	Sachal Energy Development	50	50	5,235	41.7600	14.2	211	1,325	23
13	Tenaga Generasi	50	50	4,982	43.5200	13.4	236	0	0
14	Hawa Energy	50	50	8,041	36.0500	21.7	295	1,799	65
15	Metro Power Company	50	50	8,869	34.0700	23.8	448	0	0
16	ACT Wind	30	30	2,444	28.9300	10.9	51	56	2
17	Jhimpir Power	50	50	6,835	36.0500	18.5	251	1,693	61
18	Foundation Wind Energy-I	50	50	4,666	29.9700	12.5	14	270	8
19	Liberty Wind Power-I	50	50	6,047	13.8900	16.3	86	2,003	28
20	DIN Energy	50	50	6,977	13.8300	18.8	103	2,029	28
21	Tricon Boston-C	50	50	6,498	36.9100	17.6	1,087	1,615	60
22	Tricon Boston-B	50	50	5,821	36.9100	15.7	0	1,528	56
23	Foundation Wind Energy-II	50	50	7,063	21.4100	19.0	87	0	0
24	Liberty Wind Power-II	50	50	5,502	13.8900	14.8	78	1,898	26
25	Master Green Energy	50	50	6,010	13.8700	16.2	90	2,005	28
26	Artistic Wind Power	50	50	5,405	13.6700	14.5	74	1,601	22
27	Tricon Boston-A	50	50	5,402	36.9100	14.6	0	1,401	52
28	Lakeside Energy Limited	50	50	6,500	13.6800	17.5	91	1,836	25
29	Lucky Renewables	50	50	6,388	14.3600	17.2	101	2,111	18
30	NASDA Green Energy	50	50	6,442	13.7100	17.3	90	1,836	25
31	Gul Ahmed Electric	50	50	6,057	13.7200	16.3	88	1,797	25
32	ACT2 DIN Wind	50	50	4,970	13.6700	13.4	81	1,467	20
33	Indus Wind Energy	50	50	6,540	13.8600	17.6	43	2,114	29
34	Zephyr Power	50	50	6,371	31.9500	17.1	282	1,390	44
35	Artistic Energy	50	49	9,861	20.2800	26.8	216	281	6
36	Metro Wind Power	60	60	7,961	16.5500	17.8	136	2,162	36
	Total	**1,848**	**1,843**	**218,039**	**-**	**15.9**	**6,567**	**46,727**	**1,185**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,308	28.9600	14.7	43	2	0
2	Quaid E Azam Solar	100	100	12,227	29.6200	16.4	362	0	0
3	Best Green Energy Pakistan	100	100	12,973	47.7000	17.4	1,265	0	0
4	Appolo Solar Development Pakistan	100	100	12,910	45.7900	17.4	1,185	0	0
5	Crest Energy Pakistan	100	100	13,127	48.2200	17.6	1,283	0	0
6	Harappa Solar	18	18	1,833	29.2200	13.7	55	0	0
7	Atlas Solar	100	100	12,180	12.5200	16.4	220	0	0
8	HNDS Energy	50	50	6,485	11.1300	17.4	499	146	1
9	Helios Power	50	50	6,429	11.1300	17.3	501	73	1
10	Meridian Energy	50	50	6,552	11.1300	17.6	508	73	1
	Total	**680**	**680**	**86,025**	**-**	**17.0**	**5,923**	**294**	**2**

Note:
No CPP break-up availbale for Tricon Boston, the value is clubbed for all the three WPPs.

Annex-I
February, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	February, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	3,681	45.4700	10.4	254	513	23
2	FFC Energy Limited	50	50	3,654	13.2200	11.0	82	285	4
3	Gul Ahmed Wind Power	50	50	4,586	40.6100	13.6	261	502	20
4	Yunus Energy	50	50	4,291	34.6500	12.8	166	508	18
5	UEP Wind Power	99	99	7,211	47.0900	10.8	470	786	37
6	Master Wind Energy	50	50	3,483	40.6100	10.5	206	484	20
7	Three Gorges Second Wind Farm Pakistan	50	50	3,902	36.8800	11.7	206	548	20
8	Three Gorges Third Wind Farm Pakistan	50	50	4,191	36.8800	12.6	174	560	21
9	Zorlu Enerji Pakistan	56	56	4,433	19.2300	11.7	98	294	6
10	Three Gorges First Wind Farm Pakistan	50	50	3,783	17.0400	11.4	64	283	5
11	Hydrochina Dawood Power	50	50	3,950	46.9000	11.9	279	258	12
12	Sachal Energy Development	50	50	4,033	41.7600	12.1	331	280	0
13	Tenaga Generasi	50	50	4,108	43.5200	12.2	251	295	13
14	Hawa Energy	50	50	4,817	36.0500	14.4	289	481	17
15	Metro Power Company	50	50	5,524	34.0700	16.4	106	314	11
16	ACT Wind	30	30	2,095	28.9300	10.4	243	30	1
17	Jhimpir Power	50	50	4,604	36.0500	13.8	300	574	21
18	Foundation Wind Energy-I	50	50	3,949	29.9700	11.8	100	15	60
19	Liberty Wind Power-I	50	50	4,752	13.8900	14.1	124	594	8
20	DIN Energy	50	50	5,124	13.8300	15.2	351	578	8
21	Tricon Boston-C	50	50	5,474	36.9100	16.4	422	531	20
22	Tricon Boston-B	50	50	5,243	36.9100	15.7	323	505	19
23	Foundation Wind Energy-II	50	50	4,808	21.4100	14.3	433	41	1
24	Liberty Wind Power-II	50	50	4,851	13.8900	14.4	151	536	7
25	Master Green Energy	50	50	4,278	13.8700	12.7	92	604	9
26	Artistic Wind Power	50	50	5,060	13.6700	15.1	93	601	5
27	Tricon Boston-A	50	50	5,451	36.9100	16.3	99	478	18
28	Lakeside Energy Limited	50	50	5,451	13.6800	16.2	97	623	9
29	Lucky Renewables	50	50	4,406	14.3600	13.1	34	619	9
30	NASDA Green Energy	50	50	5,229	13.7100	15.6	80	623	9
31	Gul Ahmed Electric	50	50	6,165	13.7200	18.3	116	643	9
32	ACT2 DIN Wind	50	50	4,779	13.6700	14.2	73	535	7
33	Indus Wind Energy	50	50	6,449	13.8600	19.2	124	567	8
34	Zephyr Power	50	50	5,676	31.9500	16.9	71	456	15
35	Artistic Energy	50	49	6,362	20.2800	19.2	138	601	3
36	Metro Wind Power	60	60	7,685	16.5500	19.1	135	786	13
	Total	**1,848**	**1,843**	**173,537**	-	**14.0**	**6,838**	**16,930**	**482**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,305	28.9600	16.2	38	591	0
2	Quaid E Azam Solar	100	100	12,043	29.6200	17.9	425	0	0
3	Best Green Energy Pakistan	100	100	12,441	47.7000	18.5	-20	0	0
4	Appolo Solar Development Pakistan	100	100	12,526	45.7900	18.6	65	0	0
5	Crest Energy Pakistan	100	100	12,634	48.2200	18.8	-9	0	0
6	Harappa Solar	18	18	1,959	29.2200	16.2	67	0	0
7	Atlas Solar	100	100	12,911	12.5200	19.2	159	0	0
8	HNDS Energy	50	50	6,309	11.1300	18.8	10	0	0
9	Helios Power	50	50	6,239	11.1300	18.6	2	0	0
10	Meridian Energy	50	50	6,348	11.1300	18.9	6	0	0
	Total	**680**	**680**	**84,715**	**-**	**18.5**	**741**	**591**	**0**

Note:
No CPP break-up availbale for Tricon Boston, the value is clubbed for all the three WPPs.

Annex-I
March, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	March, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	4,760	45.4700	12.1	306	566	26
2	FFC Energy Limited	50	50	3,970	13.2200	10.8	52	238	3
3	Gul Ahmed Wind Power	50	50	5,750	40.6100	15.5	234	547	22
4	Yunus Energy	50	50	5,560	34.6500	14.9	193	625	22
5	UEP Wind Power	99	99	9,250	47.0900	12.6	435	1,129	53
6	Master Wind Energy	50	50	4,540	40.6100	12.3	184	517	21
7	Three Gorges Second Wind Farm Pakistan	50	50	5,360	36.8800	14.6	189	586	22
8	Three Gorges Third Wind Farm Pakistan	50	50	5,050	36.8800	13.7	200	595	22
9	Zorlu Enerji Pakistan	56	56	5,510	19.2300	13.1	75	333	6
10	Three Gorges First Wind Farm Pakistan	50	50	4,600	17.0400	12.5	78	324	6
11	Hydrochina Dawood Power	50	50	5,340	46.9000	14.5	250	354	17
12	Sachal Energy Development	50	50	4,700	41.7600	12.8	185	187	8
13	Tenaga Generasi	50	50	5,700	43.5200	15.3	280	400	17
14	Hawa Energy	50	50	5,470	36.0500	14.8	219	655	24
15	Metro Power Company	50	50	6,430	34.0700	17.3	85	387	13
16	ACT Wind	30	30	2,930	28.9300	13.1	286	30	1
17	Jhimpir Power	50	50	5,650	36.0500	15.3	193	659	24
18	Foundation Wind Energy-I	50	50	5,570	29.9700	15.0	93	162	5
19	Liberty Wind Power-I	50	50	6,700	13.8900	18.0	91	774	11
20	DIN Energy	50	50	6,680	13.8300	18.0	415	802	11
21	Tricon Boston-C	50	50	7,440	36.9100	20.1	288	760	28
22	Tricon Boston-B	50	50	7,480	36.9100	20.2	271	760	28
23	Foundation Wind Energy-II	50	50	5,930	21.4100	15.9	269	226	5
24	Liberty Wind Power-II	50	50	6,700	13.8900	18.0	63	782	11
25	Master Green Energy	50	50	5,180	13.8700	13.9	93	440	6
26	Artistic Wind Power	50	50	7,050	13.6700	19.0	79	750	10
27	Tricon Boston-A	50	50	8,110	36.9100	21.9	94	758	28
28	Lakeside Energy Limited	50	50	7,860	13.6800	21.1	169	769	11
29	Lucky Renewables	50	50	5,420	14.3600	14.6	115	722	10
30	NASDA Green Energy	50	50	7,240	13.7100	19.5	187	772	11
31	Gul Ahmed Electric	50	50	9,350	13.7200	25.1	128	752	10
32	ACT2 DIN Wind	50	50	7,620	13.6700	20.5	113	805	11
33	Indus Wind Energy	50	50	8,660	13.8600	23.3	120	831	12
34	Zephyr Power	50	50	7,490	31.9500	20.1	238	437	17
35	Artistic Energy	50	49	8,440	20.2800	23.0	180	165	3
36	Metro Wind Power	60	60	11,010	16.5500	24.7	0	893	15
	Total	**1,848**	**1,843**	**230,500**	**-**	**16.8**	**6,450**	**20,491**	**550**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,871	28.9600	21.0	70	0	0
2	Quaid E Azam Solar	100	100	16,018	29.6200	21.5	833	0	0
3	Best Green Energy Pakistan	100	100	16,460	47.7000	22.1	785	95	5
4	Appolo Solar Development Pakistan	100	100	16,566	45.7900	22.3	758	0	0
5	Crest Energy Pakistan	100	100	16,857	48.2200	22.7	813	78	4
6	Harappa Solar	18	18	3,250	29.2200	24.3	107	0	0
7	Atlas Solar	100	100	20,052	12.5200	27.0	257	140	2
8	HNDS Energy	50	50	9,560	11.1300	25.7	180	78	1
9	Helios Power	50	50	9,589	11.1300	25.8	179	78	1
10	Meridian Energy	50	50	9,719	11.1300	26.1	182	78	1
	Total	**680**	**680**	**119,942**	**-**	**23.7**	**4,165**	**548**	**13**

Note:
No CPP break-up availbale for Tricon Boston, the value is clubbed for all the three WPPs.

Annex-I
January - March, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January-March, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	2,960	8.6800	9.1	0	22
2	Chanar Energy	22	22	0	8.8000	0.0	0	0
3	Thal Industries Corporation	41	22	29,479	8.7400	60.9	193	195
4	Almoiz Industries	36	21	9,034	8.8000	20.3	61	67
5	RYK Mills	40	40	33,836	8.5300	39.2	191	198
6	Chiniot Power	63	63	55,492	9.7200	40.8	399	420
7	JDW-III	27	24	46,374	8.5300	88.0	93	-533
8	JDW-II	26	24	45,710	8.5300	86.8	27	-542
9	Shahtaj Sugar Mills	32	22	2,620	-	5.5	0	15
	Total	**302**	**254**	**225,506**	**-**	**41.1**	**964**	**-158**

Annex-I
January, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	2,960	8.6800	26.5	0	19
2	Chanar Energy	22	22	0	8.8000	0.0	0	0
3	Thal Industries Corporation	41	22	14,480	8.7400	86.8	0	107
4	Almoiz Industries	36	21	5,240	8.8000	34.1	0	78
5	RYK Mills	40	40	14,280	8.5300	48.0	103	107
6	Chiniot Power	63	63	27,220	9.7200	58.1	0	206
7	JDW-III	27	24	15,800	8.5300	87.0	0	117
8	JDW-II	26	24	15,290	8.5300	84.3	0	113
9	Shahtaj Sugar Mills	32	22	30	-	0.2	0	0
	Total	**302**	**254**	**95,300**	**-**	**42.4**	**103**	**747**

Annex-I
February, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	February, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	8.6800	0.0	0	3
2	Chanar Energy	22	22	0	8.8000	0.0	0	0
3	Thal Industries Corporation	41	22	11,850	8.7400	78.7	193	88
4	Almoiz Industries	36	21	3,080	8.8000	22.2	61	-16
5	RYK Mills	40	40	12,470	8.5300	46.4	88	-1
6	Chiniot Power	63	63	21,810	9.7200	51.5	399	165
7	JDW-III	27	24	13,540	8.5300	82.5	93	-776
8	JDW-II	26	24	13,540	8.5300	82.7	27	-780
9	Shahtaj Sugar Mills	32	22	2,590	-	17.5	0	15
	Total	**302**	**254**	**78,880**	**-**	**46.2**	**861**	**-1,302**

Annex-I
March, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	March, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	8.6800	0.0	0	0
2	Chanar Energy	22	22	0	8.8000	0.0	0	0
3	Thal Industries Corporation	41	22	3,149	8.7400	18.9	0	0
4	Almoiz Industries	36	21	714	8.8000	4.6	0	5
5	RYK Mills	40	40	7,086	8.5300	23.8	0	92
6	Chiniot Power	63	63	6,462	9.7200	13.8	0	49
7	JDW-III	27	24	17,034	8.5300	93.8	0	126
8	JDW-II	26	24	16,880	8.5300	93.1	0	125
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	0
	Total	**302**	**254**	**51,326**	**-**	**27.2**	**0**	**397**

Annex-I
January - March, 2025
Thermal

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January, 2025				February, 2025				March, 2025				January-March, 2025			
				Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost
		MW	MW	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million
A. THERMAL (Gas)																			
1	BQPS II	573	526	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
2	KCCP	248	227	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
3	BQPS I	840	730	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
4	KGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
5	SGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
6	SNPC-I	52	51	12,046	4.1008	31.7	128	14,414	4.1008	42.1	153	23,227	4.1008	61.2	248	49,687	4.1008	45.1	529
7	SNPC-II	52	51	12,160	4.0708	32.0	128	14,578	4.0708	42.5	154	23,439	4.0708	61.8	250	50,177	4.0708	45.5	532
	Total (Gas)	**1,979**	**1,777**	**24,206**	**-**	**1.8**	**256**	**28,992**	**-**	**2.4**	**307**	**46,666**	**-**	**3.5**	**498**	**99,864**	**-**	**2.6**	**1,061**
A. THERMAL (Coal-Imported)																			
1	FFBL Power Company Ltd.	52	52	0	2.4230	0.0	0	1,497	2.4230	4.3	28	20,310	2.4230	52.5	376	21,807	2.4230	19.4	404
	Total (Coal-Imported)	**52**	**52**	**0**	**-**	**0.0**	**0**	**1,497**	**-**	**4.3**	**28**	**20,310**	**-**	**52.5**	**376**	**21,807**	**-**	**19.4**	**404**
A. THERMAL (RLNG)																			
1	BQPS-III	942	918	42,084	-	6.2	940	105,062	-	17.0	2,283	265,702	-	38.9	5,762	412,847	-	20.8	8,985
2	BQPS -II	573	526	0	-	0.0	0	14,238	-	4.0	463	368	-	0.1	15	14,605	-	1.3	478
3	BQPS-I	840	730	0	-	0.0	0	74	-	0.0	3	0	-	0.0	0	74	-	0.0	3
4	KCCP	248	227	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
5	KGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
6	SGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
7	ISL	19	17	155	-	1.2	0	403	-	3.5	0	871	-	6.9	0	1,429	-	3.9	0
8	Lucky	30	5	218	-	5.9	7	204	-	6.1	8	262	-	7.0	9	684	-	6.3	24
	Total (RLNG)	**2,866**	**2,615**	**42,457**	**-**	**2.2**	**947**	**119,980**	**-**	**6.8**	**2,757**	**267,202**	**-**	**13.7**	**5,786**	**429,639**	**-**	**7.6**	**9,490**
A. THERMAL (RFO)																			
1	BQPS-I	840	730	0	-	0.0	0	20	-	0.0	1	0	-	0.0	0	20	-	0.0	1
	Total (RFO)	**840**	**730**	**0**	**-**	**0.0**	**0**	**20**	**-**	**0.0**	**1**	**0**	**-**	**0.0**	**0**	**20**	**-**	**0.0**	**1**

Annex-I
January - March, 2025
Renewable

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	January, 2025					February, 2025					March, 2025					January-March, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost
		MW	MW	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million
B. RENEWABLE (Solar)																							
1	OURSUN Pakistan Ltd.	50	50	7,659	-	20.6	0	240	7,116	-	21.2	0	223	9,252	-	24.9	0	287	24,027	-	22.2	0	**750**
2	Gharo Solar Ltd.	50	50	7,748	-	20.8	0	132	7,535	-	22.4	0	128	10,831	-	29.1	0	184	26,114	-	24.2	0	**444**
	Total (Solar)	**100**	**100**	**15,407**	**-**	**20.7**	**0**	**372**	**14,651**	**-**	**21.8**	**0**	**351**	**20,083**	**-**	**27.0**	**0**	**471**	**50,141**	**-**	**23.2**	**0**	**1,194**

Annex-I
April - June, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	April-June, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	-466	0	-
2	Guddu 747	747	720	569,533	-	36.2	-3,082	6,837	-
3	Engro Powergen Qadirpur	227	213	150,932	1.6554	32.5	854	2,085	223
4	Liberty Daharki Power	235	221	101,837	-	21.1	742	1,910	-
5	Uch-II Power	404	356	542,874	2.8763	69.9	1,630	7,360	332
6	Foundation Power Company Daharki	179	169	299,364	2.2126	81.3	996	5,010	156
7	Uch Power	586	548	1,028,528	-	85.9	621	14,005	0
	Total	**2,378**	**2,225**	**2,693,068**	**-**	**55.4**	**1,294**	**37,207**	**711**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	494,483	11.7967	75.3	7,473	8,157	-
2	Engro Powergen Thar	660	601	1,104,637	11.2866	84.2	14,840	4,735	-
3	Thar Coal Block-1	1,320	1,231	2,378,783	11.6308	88.5	40,666	28,531	-
4	ThalNova Power Thar	330	301	470,606	11.7383	71.7	7,589	13,579	-
	Total	**2,640**	**2,433**	**4,448,509**	**-**	**83.7**	**70,569**	**55,002**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	132,852	11.5007	4.9	30,767	2,848	-
2	Lucky Electric Power Company	660	607	303,142	8.6940	22.9	12,549	3,995	50
3	Port Qasim Electric Power	1,320	1,243	845,697	10.0712	31.2	28,897	12,471	141
4	Huaneng Shandong Ruyi Energy	1,320	1,244	1,710,356	9.6888	63.0	28,514	30,466	605
	Total	**4,620**	**4,342**	**2,992,047**	**-**	**31.6**	**100,727**	**49,780**	**796**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	32,502	-	9.8	384	992	-
3	Saif Power	225	204	97,657	1.8613	21.9	822	2,867	264
4	Punjab Thermal Power	1,263	1,244	572,656	-	21.1	10,694	14,797	1,908
5	Sapphire Electric Company	235	204	99,127	1.8680	22.3	1,132	2,872	279
6	Halmore Power Generation	225	202	109,620	2.4732	24.8	1,673	3,536	289
7	Orient Power Company	225	206	161,870	2.3044	36.1	1,554	4,677	438
8	Nandipur	567	450	347,320	-	35.3	10,219	11,412	-
9	Bhikki	1,231	1,130	1,669,979	2.7193	67.6	8,066	38,548	3,235
10	Balloki	1,276	1,169	1,353,492	2.4941	53.0	4,199	30,989	2,494
11	Haveli Bahadur Shah	1,277	1,180	2,096,007	2.4150	81.3	3,164	35,222	3,255
	Total	**7,144**	**6,141**	**6,540,231**	**-**	**48.8**	**41,906**	**145,912**	**12,163**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	597	242	-
2	TPS Jamshoro	880	649	0	-	0.0	-273	0	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	0	0	-	0.0	0	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	36,449	1.7872	8.5	805	-1,507	39
8	Narowal Energy	214	214	15,500	2.2544	3.3	1,291	533	20
9	Atlas Power	224	0	0	-	0.0	873	-873	-
10	Liberty Power Tech	202	196	36,629	1.9827	8.6	1,154	-3,120	20
11	Nishat Power	202	195	35,256	1.7974	8.3	1,233	-2,074	38
12	Attock Gen.	165	156	45,205	1.9770	13.3	529	219	42
13	Kohinoor Energy	131	124	32,880	-	12.1	280	614	-
	Total	**5,725**	**1,730**	**201,919**	**-**	**5.3**	**6,490**	**-5,966**	**159**
NUCLEAR									
1	Chashma Nuclear-II	325	315	670,919	6.8259	97.5	5,660	2,764	-
2	Karachi Nuclear-3	1,145	1,018	1,760,743	11.1084	79.2	24,828	4,031	-
3	Chashma Nuclear-IV	340	315	620,285	16.6454	90.2	11,559	1,341	-
4	Karachi Nuclear-2	1,145	1,018	1,345,012	10.4046	60.5	23,179	2,351	-
5	Chashma Nuclear-III	340	315	675,414	16.7287	98.2	11,793	3,246	-
6	Chashma Nuclear-I	325	315	204,672	6.3321	29.8	4,429	415	-
	Total	**3,620**	**3,296**	**5,277,045**	**-**	**73.3**	**81,448**	**14,148**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024, while the PPA of Pakgen was terminated on 31-01-2025.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
April, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	April, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	234	0	-
2	Guddu 747	747	720	185,868	-	35.9	1,653	2,229	-
3	Engro Powergen Qadirpur	227	213	66,251	1.6554	43.3	326	1,107	87
4	Liberty Daharki Power	235	221	4,318	-	2.7	242	127	-
5	Uch-II Power	404	356	121,316	2.8763	47.4	791	1,751	69
6	Foundation Power Company Daharki	179	169	109,061	2.2126	89.9	270	2,062	40
7	Uch Power	586	548	355,023	-	90.0	659	4,813	-
	Total	**2,378**	**2,225**	**841,836**	**-**	**52.5**	**4,177**	**12,089**	**196**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	167,581	11.7967	77.4	2,600	9,810	-
2	Engro Powergen Thar	660	601	370,147	11.2866	85.6	5,005	4,669	-
3	Thar Coal Block-1	1,320	1,231	826,263	11.6308	93.2	20,821	14,793	-
4	ThalNova Power Thar	330	301	160,979	11.7383	74.4	2,609	7,710	-
	Total	**2,640**	**2,433**	**1,524,970**	**-**	**87.1**	**31,035**	**36,982**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	0	11.5007	0.0	10,339	0	-
2	Lucky Electric Power Company	660	607	0	8.6940	0.0	6,012	0	-
3	Port Qasim Electric Power	1,320	1,243	145,801	10.0712	16.3	9,175	2,350	141
4	Huaneng Shandong Ruyi Energy	1,320	1,244	663,026	9.6888	74.1	8,793	12,064	-
	Total	**4,620**	**4,342**	**808,827**	**-**	**25.9**	**34,318**	**14,414**	**141**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	8,874	-	8.2	255	294	-
3	Saif Power	225	204	49,331	1.8613	33.6	290	1,440	118
4	Punjab Thermal Power	1,263	1,244	252,103	-	28.1	4,337	5,940	650
5	Sapphire Electric Company	235	204	53,465	1.8680	36.5	492	1,525	126
6	Halmore Power Generation	225	202	59,016	2.4732	40.6	487	1,681	137
7	Orient Power Company	225	206	79,648	2.3044	53.8	482	2,221	181
8	Nandipur	567	450	139,027	-	42.9	7,192	6,199	0
9	Bhikki	1,231	1,130	657,868	2.7193	80.8	4,372	15,080	1,034
10	Balloki	1,276	1,169	122,157	2.4941	14.5	1,049	2,706	211
11	Haveli Bahadur Shah	1,277	1,180	735,533	2.4150	86.5	1,610	3,840	809
	Total	**7,144**	**6,141**	**2,157,022**	**-**	**48.8**	**20,566**	**40,926**	**3,264**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	288	0	-
2	TPS Jamshoro	880	649	0	-	0.0	-137	0	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	0	0	-	0.0	0	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	18,318	1.7872	13.0	-210	603	19
8	Narowal Energy	214	214	4,790	2.2544	3.1	435	167	5
9	Atlas Power	224	0	0	-	0.0	873	-873	-
10	Liberty Power Tech	202	196	6,851	1.9827	4.9	282	232	3
11	Nishat Power	202	195	16,606	1.7974	11.8	518	562	17
12	Attock Gen.	165	156	21,050	1.9770	18.7	164	628	16
13	Kohinoor Energy	131	124	15,850	-	17.8	37	491	-
	Total	**5,725**	**1,730**	**83,464**	**-**	**6.7**	**2,250**	**1,810**	**61**
NUCLEAR									
1	Chashma Nuclear-II	325	315	223,379	6.8259	98.5	1,866	464	-
2	Karachi Nuclear-3	1,145	1,018	273,053	11.1084	37.3	8,153	611	-
3	Chashma Nuclear-IV	340	315	224,229	16.6454	98.9	3,877	485	-
4	Karachi Nuclear-2	1,145	1,018	732,378	10.4046	99.9	7,680	1,265	-
5	Chashma Nuclear-III	340	315	225,059	16.7287	99.2	3,902	1,910	-
6	Chashma Nuclear-I	325	315	204,333	6.3321	90.1	1,637	414	-
	Total	**3,620**	**3,296**	**1,882,431**	**-**	**79.3**	**27,115**	**5,150**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3.As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
May, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	May, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	235	0	-
2	Guddu 747	747	720	153,058	-	28.6	-265	1,838	-
3	Engro Powergen Qadirpur	227	213	19,179	1.6554	12.1	274	223	27
4	Liberty Daharki Power	235	221	66,647	-	40.6	250	1,284	-
5	Uch-II Power	404	356	211,768	2.8763	80.0	1,553	3,083	132
6	Foundation Power Company Daharki	179	169	91,395	2.2126	72.9	439	1,961	53
7	Uch Power	586	548	341,137	-	83.7	-662	4,648	-
	Total	**2,378**	**2,225**	**883,184**	**-**	**53.3**	**1,824**	**13,037**	**213**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	155,939	11.7967	69.7	2,590	287	-
2	Engro Powergen Thar	660	601	342,787	11.2866	76.7	4,854	4,714	-
3	Thar Coal Block-1	1,320	1,231	784,236	11.6308	85.6	9,916	9,819	-
4	ThalNova Power Thar	330	301	130,532	11.7383	58.3	2,594	2,352	-
	Total	**2,640**	**2,433**	**1,413,493**	**-**	**78.1**	**19,953**	**17,172**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	59,122	11.5007	6.4	10,141	1,159	-
2	Lucky Electric Power Company	660	607	125,829	8.6940	27.9	3,836	1,567	-
3	Port Qasim Electric Power	1,320	1,243	115,875	10.0712	12.5	9,694	1,895	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	485,624	9.6888	52.5	10,854	8,365	126
	Total	**4,620**	**4,342**	**786,450**	**-**	**24.3**	**34,526**	**12,986**	**126**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	7,736	-	6.9	255	228	-
3	Saif Power	225	204	18,322	1.8613	12.1	198	603	51
4	Punjab Thermal Power	1,263	1,244	154,105	-	16.6	4,893	4,615	603
5	Sapphire Electric Company	235	204	14,311	1.8680	9.4	276	489	55
6	Halmore Power Generation	225	202	16,488	2.4732	11.0	597	599	56
7	Orient Power Company	225	206	38,207	2.3044	25.0	549	1,280	126
8	Nandipur	567	450	75,571	-	22.5	2,512	1,910	-
9	Bhikki	1,231	1,130	505,450	2.7193	60.1	1,271	11,742	1,099
10	Balloki	1,276	1,169	628,524	2.4941	72.2	1,282	14,979	1,153
11	Haveli Bahadur Shah	1,277	1,180	708,788	2.4150	80.7	1,066	17,248	1,269
	Total	**7,144**	**6,141**	**2,167,501**	**-**	**47.4**	**12,899**	**53,693**	**4,412**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	255	242	-
2	TPS Jamshoro	880	649	0	-	0.0	0	0	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	0	0	-	0.0	0	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	1,350	1.7872	0.9	578	45	3
8	Narowal Energy	214	214	1,043	2.2544	0.7	265	38	2
9	Atlas Power	224	0	0	-	0.0	0	0	-
10	Liberty Power Tech	202	196	6,233	1.9827	4.3	342	215	6
11	Nishat Power	202	195	3,271	1.7974	2.3	348	108	5
12	Attock Gen.	165	156	3,910	1.9770	3.4	58	114	5
13	Kohinoor Energy	131	124	4,274	-	4.6	122	123	-
	Total	**5,725**	**1,730**	**20,081**	**-**	**1.6**	**1,967**	**885**	**21**
NUCLEAR									
1	Chashma Nuclear-II	325	315	226,862	6.8259	96.8	1,928	1,707	-
2	Karachi Nuclear-3	1,145	1,018	756,742	11.1084	99.9	8,479	1,738	-
3	Chashma Nuclear-IV	340	315	187,792	16.6454	80.1	3,892	406	-
4	Karachi Nuclear-2	1,145	1,018	612,626	10.4046	80.9	7,877	1,086	-
5	Chashma Nuclear-III	340	315	227,417	16.7287	97.0	4,002	675	-
6	Chashma Nuclear-I	325	315	339	6.3321	0.1	1,419	1	-
	Total	**3,620**	**3,296**	**2,011,778**	**-**	**82.0**	**27,597**	**5,613**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024, while the PPA of Pakgen was terminated on 31-01-2025.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
June, 2025
Thermal

Details of EPP, CPP and Other Supplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	June, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP	PLAC
THERMAL (Gas)		**MW**	**MW**	**MWh**	**Rs./kW/h**	**%**	**Rs. Million**	**Rs. Million**	**Rs. Million**
1	Guddu	-	-	0	-	0.0	-935	0	-
2	Guddu 747	747	720	230,607	-	44.5	-4,470	2,770	-
3	Engro Powergen Qadirpur	227	213	65,502	1.6554	42.8	254	755	109
4	Liberty Daharki Power	235	221	30,873	-	19.4	250	499	-
5	Uch-II Power	404	356	209,791	2.8763	81.9	-714	2,526	131
6	Foundation Power Company Daharki	179	169	98,908	2.2126	81.5	286	987	63
7	Uch Power	586	548	332,368	-	84.2	623	4,544	-
	Total	**2,378**	**2,225**	**968,049**	**-**	**60.4**	**-4,707**	**12,081**	**302**
THERMAL (Coal-Local)									
1	Thar Energy	330	301	170,964	11.7967	79.0	2,284	-1,940	-
2	Engro Powergen Thar	660	601	391,703	11.2866	90.6	4,982	-4,648	-
3	Thar Coal Block-1	1,320	1,231	768,284	11.6308	86.7	9,929	3,919	-
4	ThalNova Power Thar	330	301	179,095	11.7383	82.7	2,386	3,517	-
	Total	**2,640**	**2,433**	**1,510,046**	**-**	**86.2**	**19,581**	**848**	**-**
THERMAL (Coal-Imported)									
1	China Power Hub Generation	1,320	1,249	73,730	11.5007	8.2	10,287	1,689	-
2	Lucky Electric Power Company	660	607	177,313	8.6940	40.6	2,702	2,428	50
3	Port Qasim Electric Power	1,320	1,243	584,021	10.0712	65.3	10,028	8,226	-
4	Huaneng Shandong Ruyi Energy	1,320	1,244	561,706	9.6888	62.7	8,867	10,037	479
	Total	**4,620**	**4,342**	**1,396,770**	**-**	**44.7**	**31,884**	**22,380**	**529**
THERMAL (RLNG)									
1	Rousch Pak Power	450	0	0	-	0.0	0	0	-
2	Fauji Kabirwala Power	170	151	15,892	-	14.6	-127	470	-
3	Saif Power	225	204	30,005	1.8613	20.4	334	824	95
4	Punjab Thermal Power	1,263	1,244	166,448	-	18.6	1,464	4,242	655
5	Sapphire Electric Company	235	204	31,350	1.8680	21.4	363	858	98
6	Halmore Power Generation	225	202	34,117	2.4732	23.5	589	1,256	96
7	Orient Power Company	225	206	44,016	2.3044	29.7	523	1,176	131
8	Nandipur	567	450	132,722	-	40.9	515	3,303	-
9	Bhikki	1,231	1,130	506,661	2.7193	62.3	2,423	11,726	1,103
10	Balloki	1,276	1,169	602,811	2.4941	71.6	1,869	13,304	1,130
11	Haveli Bahadur Shah	1,277	1,180	651,686	2.4150	76.7	488	14,134	1,177
	Total	**7,144**	**6,141**	**2,215,708**	**-**	**50.1**	**8,441**	**51,293**	**4,486**
THERMAL (RFO)									
1	TPS M/Garh	1,350	0	0	-	0.0	54	0	-
2	TPS Jamshoro	880	649	0	-	0.0	-137	0	-
3	Lalpir Power	362	0	0	-	0.0	0	0	-
4	Saba Power Company	136	0	0	-	0.0	0	0	-
5	Pak Gen Power	365	0	0	-	0.0	0	0	-
6	The Hub Power Company	1,292	0	0	-	0.0	0	0	-
7	Nishat Chunian Power	202	196	16,781	1.7872	11.9	438	-2,155	17
8	Narowal Energy	214	214	9,667	2.2544	6.3	591	327	13
9	Atlas Power	224	0	0	-	0.0	-	0	-
10	Liberty Power Tech	202	196	23,545	1.9827	16.7	530	-3,567	11
11	Nishat Power	202	195	15,379	1.7974	11.0	368	-2,744	16
12	Attock Gen.	165	156	20,246	1.9770	18.0	307	-523	20
13	Kohinoor Energy	131	124	12,756	-	14.3	122	0	-
	Total	**5,725**	**1,730**	**98,374**	**-**	**7.9**	**2,272**	**-8,661**	**78**
NUCLEAR									
1	Chashma Nuclear-II	325	315	220,678	6.8259	97.3	1,866	592	-
2	Karachi Nuclear-3	1,145	1,018	730,948	11.1084	99.7	8,196	1,682	-
3	Chashma Nuclear-IV	340	315	208,264	16.6454	91.8	3,790	450	-
4	Karachi Nuclear-2	1,145	1,018	8	10.4046	0.0	7,622	0	-
5	Chashma Nuclear-III	340	315	222,938	16.7287	98.3	3,889	661	-
6	Chashma Nuclear-I	325	315	0	6.3321	0.0	1,373	0	-
	Total	**3,620**	**3,296**	**1,382,836**	**-**	**58.3**	**26,737**	**3,385**	**-**

Note:
1. The Part Load Adjustment Charges for a few plants are yet to be finalized.
2. Tariff Adjusted refers to the reference tariff that has been adjusted/revised by NEPRA for the respective quarter.
*Tariff Adjusted of Local Coal Power Plants is in Rs./kWh.
3. As per CPPA-G, the PPAs of Rousch Power, Lalpir, Saba Power, HUBCO, and Atlas Power were terminated on 30-09-2024, while the PPA of Pakgen was terminated on 31-01-2025.
4. The data pertaining to Net Generation, EPP and PLAC has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G.
5. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
April - June, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	April-June, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	3,978	Rs. 5085/kW/M	10.7	119	5
2	Jinnah Hydel Power Station	WAPDA	96	36	40,832	Rs. 1798/kW/M	51.9	481	17
3	Chitral Hydel Power Station	WAPDA	1	1	592	Rs. 7241/kW/M	27.1	44	1
4	Renala	WAPDA	1	1	593	Rs. 5632/kW/M	27.1	32	1
5	Golen Gol	WAPDA	108	108	92,239	Rs. 3465/kW/M	39.1	2,578	147
6	Rasul Hydel Power Station	WAPDA	22	22	7,647	Rs. 1272/kW/M	15.9	109	2
7	Shadiwal Power Station	WAPDA	14	14	11,919	Rs. 1528/kW/M	39.0	87	4
8	New Bong Escape	Private	84	84	94,926	Rs.15.76/kWh	51.7	2,205	92
9	Chichoki	WAPDA	13	13	8,062	Rs. 1451/kW/M	28.4	80	2
10	Khan Khwar Hydel Power Station	WAPDA	72	72	56,203	Rs. 2062/kW/M	35.7	650	16
11	Malakand-III	PEDO	84	81	127,622	Rs.10.19/kWh	72.1	1,115	119
12	Gulpur	Private	100	100	55,334	Rs. 12734/kW/M	25.3	6,052	23
13	Nandipur Hydel Power Station	WAPDA	14	14	11,285	Rs. 1661/kW/M	36.9	107	3
14	Dargai	WAPDA	20	20	0	Rs. 1426/kW/M	0.0	0	0
15	Mangla Power Station	WAPDA	1,000	1,000	1,080,072	Rs.1017/kW/M	49.5	3,037	116
16	Allai Khwar	WAPDA	121	121	113,658	Rs.1742/kW/M	43.0	724	25
17	Warsak Hydel Power Plant	WAPDA	243	243	273,607	Rs. 1002/kW/M	51.6	779	30
18	Karot	Private	720	720	1,295,535	Rs. 9626/kW/M	82.4	36,536	913
19	Kurram Garhi	WAPDA	4	4	2,484	Rs. 3427/kW/M	28.4	56	1
20	Chashma Hydel Power Station	WAPDA	184	184	252,439	Rs. 1909/kW/M	62.8	1,012	51
21	Patrind	Private	147	147	236,041	Rs. 9613/kW/M	73.5	11,063	162
22	Duber Khwar Hydel Power Station	WAPDA	130	130	186,695	Rs. 2319/kW/M	65.8	1,240	60
23	Daral Khwar Hydro Power Station	PEDO	37	37	73,983	Rs. 8.27/kWh	91.6	0	605
24	Ghazi Barotha	WAPDA	1,450	1,450	1,762,771	Rs. 911/kW/M	55.7	3,849	129
25	Suki Kinari	Private	884	883	1,403,560	Rs. 9091/kW/M	72.8	19,767	425
26	Jagran-I	Public	30	30	47,509	-	72.5	0	147
27	Jabban Hydel Power Station	WAPDA	22	22	39,467	Rs. 2870/kW/M	82.1	161	11
28	Tarbela	WAPDA	3,478	3,478	3,886,115	Rs. 590/kW/M	51.2	6,439	154
29	NJHPC	Public	969	969	0	-	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	1,394,836	Rs. 978/kW/M	45.3	6,347	172
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**12,560,004**	**-**	**50.3**	**104,671**	**3,433**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
April, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	April, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	132	Rs. 5085/kW/M	1.1	40	0
2	Jinnah Hydel Power Station	WAPDA	96	36	15,622	Rs. 1798/kW/M	60.3	160	7
3	Chitral Hydel Power Station	WAPDA	1	1	150	Rs. 7241/kW/M	20.8	15	0
4	Renala	WAPDA	1	1	208	Rs. 5632/kW/M	28.9	11	0
5	Golen Gol	WAPDA	108	108	11,420	Rs. 3465/kW/M	14.7	859	18
6	Rasul Hydel Power Station	WAPDA	22	22	1,323	Rs. 1272/kW/M	8.4	36	0
7	Shadiwal Power Station	WAPDA	14	14	4,161	Rs. 1528/kW/M	41.3	29	1
8	New Bong Escape	Private	84	84	28,630	Rs.15.76/kWh	47.3	213	14
9	Chichoki	WAPDA	13	13	2,392	Rs. 1451/kW/M	25.6	27	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	27,516	Rs. 2062/kW/M	53.1	216	8
11	Malakand-III	PEDO	84	81	37,678	Rs.10.19/kWh	64.6	141	53
12	Gulpur	Private	100	100	20,251	Rs. 12734/kW/M	28.1	4,767	6
13	Nandipur Hydel Power Station	WAPDA	14	14	2,816	Rs. 1661/kW/M	27.9	36	1
14	Dargai	WAPDA	20	20	0	Rs. 1426/kW/M	0.0	0	0
15	Mangla Power Station	WAPDA	1,000	1,000	285,815	Rs.1017/kW/M	39.7	1,012	31
16	Allai Khwar	WAPDA	121	121	51,128	Rs.1742/kW/M	58.7	241	11
17	Warsak Hydel Power Plant	WAPDA	243	243	94,751	Rs. 1002/kW/M	54.2	260	10
18	Karot	Private	720	720	413,317	Rs. 9626/kW/M	79.7	2,045	128
19	Kurram Garhi	WAPDA	4	4	968	Rs. 3427/kW/M	33.6	19	1
20	Chashma Hydel Power Station	WAPDA	184	184	73,940	Rs. 1909/kW/M	55.8	337	15
21	Patrind	Private	147	147	59,905	Rs. 9613/kW/M	56.6	495	11
22	Duber Khwar Hydel Power Station	WAPDA	130	130	62,884	Rs. 2319/kW/M	67.2	413	20
23	Daral Khwar Hydro Power Station	PEDO	37	37	24,689	Rs. 8.27/kWh	92.7	0	204
24	Ghazi Barotha	WAPDA	1,450	1,450	356,033	Rs. 911/kW/M	34.1	1,283	26
25	Suki Kinari	Private	884	883	266,443	Rs. 9091/kW/M	41.9	10,537	81
26	Jagran-I	Public	30	30	13,655	-	63.2	0	35
27	Jabban Hydel Power Station	WAPDA	22	22	12,923	Rs. 2870/kW/M	81.6	54	4
28	Tarbela	WAPDA	3,478	3,478	436,720	Rs. 590/kW/M	17.4	2,146	17
29	NJHPC	Public	969	969	0	-	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	957	Rs. 978/kW/M	0.1	2,116	0
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**2,306,426**	**-**	**27.1**	**27,508**	**703**

Note:
1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
May, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	May, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	2,009	Rs. 5085/kW/M	15.9	40	2
2	Jinnah Hydel Power Station	WAPDA	96	36	12,810	Rs. 1798/kW/M	47.8	160	5
3	Chitral Hydel Power Station	WAPDA	1	1	204	Rs. 7241/kW/M	27.4	15	0
4	Renala	WAPDA	1	1	183	Rs. 5632/kW/M	24.7	11	0
5	Golen Gol	WAPDA	108	108	37,767	Rs. 3465/kW/M	47.0	859	60
6	Rasul Hydel Power Station	WAPDA	22	22	3,076	Rs. 1272/kW/M	18.8	36	1
7	Shadiwal Power Station	WAPDA	14	14	4,291	Rs. 1528/kW/M	41.2	29	1
8	New Bong Escape	Private	84	84	38,453	Rs.15.76/kWh	61.5	1,251	51
9	Chichoki	WAPDA	13	13	2,502	Rs. 1451/kW/M	25.9	27	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	17,418	Rs. 2062/kW/M	32.5	217	5
11	Malakand-III	PEDO	84	81	48,501	Rs.10.19/kWh	80.5	843	46
12	Gulpur	Private	100	100	16,101	Rs. 12734/kW/M	21.6	644	8
13	Nandipur Hydel Power Station	WAPDA	14	14	4,070	Rs. 1661/kW/M	39.1	36	1
14	Dargai	WAPDA	20	20	0	Rs. 1426/kW/M	0.0	0	0
15	Mangla Power Station	WAPDA	1,000	1,000	428,206	Rs.1017/kW/M	57.6	1,012	46
16	Allai Khwar	WAPDA	121	121	37,347	Rs.1742/kW/M	41.5	241	8
17	Warsak Hydel Power Plant	WAPDA	243	243	90,899	Rs. 1002/kW/M	50.3	260	10
18	Karot	Private	720	720	504,539	Rs. 9626/kW/M	94.2	2,045	159
19	Kurram Garhi	WAPDA	4	4	1,077	Rs. 3427/kW/M	36.2	19	1
20	Chashma Hydel Power Station	WAPDA	184	184	94,075	Rs. 1909/kW/M	68.7	337	19
21	Patrind	Private	147	147	107,578	Rs. 9613/kW/M	98.4	7,219	88
22	Duber Khwar Hydel Power Station	WAPDA	130	130	74,329	Rs. 2319/kW/M	76.8	413	24
23	Daral Khwar Hydro Power Station	PEDO	37	37	26,176	Rs. 8.27/kWh	95.1	0	216
24	Ghazi Barotha	WAPDA	1,450	1,450	707,906	Rs. 911/kW/M	65.6	1,283	52
25	Suki Kinari	Private	884	883	556,250	Rs. 9091/kW/M	84.7	5,800	169
26	Jagran-I	Public	30	30	15,777	-	70.7	0	46
27	Jabban Hydel Power Station	WAPDA	22	22	13,840	Rs. 2870/kW/M	84.6	54	4
28	Tarbela	WAPDA	3,478	3,478	1,429,690	Rs. 590/kW/M	55.3	2,146	57
29	NJHPC	Public	969	969	0	-	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	568,778	Rs. 978/kW/M	54.2	2,116	70
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**4,843,854**	**-**	**57.0**	**27,113**	**1,151**

Note:

1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
June, 2025
Hydel

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Entity	Inst. Capacity	Ref. Capacity	June, 2025				
					Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
C. HYDEL			**MW**	**MW**	**MWh**		**%**	**Rs. Million**	**Rs. Million**
1	Gomal Zam	WAPDA	17	17	1,838	Rs. 5085/kW/M	14.5	40	2
2	Jinnah Hydel Power Station	WAPDA	96	36	12,401	Rs. 1798/kW/M	46.3	160	5
3	Chitral Hydel Power Station	WAPDA	1	1	238	Rs. 7241/kW/M	32.0	15	0
4	Renala	WAPDA	1	1	201	Rs. 5632/kW/M	27.1	11	0
5	Golen Gol	WAPDA	108	108	43,051	Rs. 3465/kW/M	53.6	859	69
6	Rasul Hydel Power Station	WAPDA	22	22	3,247	Rs. 1272/kW/M	19.8	36	1
7	Shadiwal Power Station	WAPDA	14	14	3,466	Rs. 1528/kW/M	33.3	29	1
8	New Bong Escape	Private	84	84	27,842	Rs.15.76/kWh	44.6	741	27
9	Chichoki	WAPDA	13	13	3,168	Rs. 1451/kW/M	32.8	27	1
10	Khan Khwar Hydel Power Station	WAPDA	72	72	11,269	Rs. 2062/kW/M	21.0	217	3
11	Malakand-III	PEDO	84	81	41,443	Rs.10.19/kWh	68.8	131	20
12	Gulpur	Private	100	100	18,982	Rs. 12734/kW/M	25.5	641	9
13	Nandipur Hydel Power Station	WAPDA	14	14	4,398	Rs. 1661/kW/M	42.2	36	1
14	Dargai	WAPDA	20	20	0	Rs. 1426/kW/M	0.0	0	0
15	Mangla Power Station	WAPDA	1,000	1,000	366,051	Rs.1017/kW/M	49.2	1,012	39
16	Allai Khwar	WAPDA	121	121	25,184	Rs.1742/kW/M	28.0	241	5
17	Warsak Hydel Power Plant	WAPDA	243	243	87,957	Rs. 1002/kW/M	48.7	260	10
18	Karot	Private	720	720	377,679	Rs. 9626/kW/M	70.5	32,447	626
19	Kurram Garhi	WAPDA	4	4	439	Rs. 3427/kW/M	14.7	19	0
20	Chashma Hydel Power Station	WAPDA	184	184	84,424	Rs. 1909/kW/M	61.7	337	17
21	Patrind	Private	147	147	68,558	Rs. 9613/kW/M	62.7	3,349	63
22	Duber Khwar Hydel Power Station	WAPDA	130	130	49,483	Rs. 2319/kW/M	51.2	413	16
23	Daral Khwar Hydro Power Station	PEDO	37	37	23,118	Rs. 8.27/kWh	84.0	0	184
24	Ghazi Barotha	WAPDA	1,450	1,450	698,832	Rs. 911/kW/M	64.8	1,283	51
25	Suki Kinari	Private	884	883	580,867	Rs. 9091/kW/M	88.4	3,431	176
26	Jagran-I	Public	30	30	18,077	-	81.0	0	66
27	Jabban Hydel Power Station	WAPDA	22	22	12,704	Rs. 2870/kW/M	77.6	54	4
28	Tarbela	WAPDA	3,478	3,478	2,019,705	Rs. 590/kW/M	78.1	2,146	80
29	NJHPC	Public	969	969	0	-	0.0	0	0
30	Tarbela4th Extension Project	WAPDA	1,410	1,410	825,101	Rs. 978/kW/M	78.7	2,116	102
31	Ranolia	PEDO	17	17	0	Rs. 4.17/kWh	0.0	0	0
	Total		**11,492**	**11,428**	**5,409,723**	**-**	**63.6**	**50,051**	**1,579**

Note:

1. Tariff Adjusted refers to the tariff that is applicable for the respective quarter.
2. As per CPPA-G, CPP includes other payment as well.
3. The data pertaining to Net Generation and EPP has been sourced from the Monthly Energy Purchase Data submitted by CPPA-G, except for WAPDA's plants, whose data has been proovided separately by CPPA-G.
4. The data pertaining to CPP has been provided by CPPA-G.

Annex-I
April - June, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	April-June, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	31,517	45.5725	27.3	1,645	3,987	182
2	FFC Energy Limited	50	50	27,905	13.2769	25.8	897	3,643	51
3	Gul Ahmed Wind Power	50	50	32,630	40.7359	29.9	1,571	3,065	125
4	Yunus Energy	50	50	32,273	34.7800	29.6	1,254	3,126	109
5	UEP Wind Power	99	99	56,988	47.0430	26.4	3,011	5,892	277
6	Master Wind Energy	50	50	33,125	40.7359	30.6	1,735	3,129	127
7	Three Gorges Second Wind Farm Pakistan	50	50	31,364	36.8105	29.0	1,318	3,475	129
8	Three Gorges Third Wind Farm Pakistan	50	50	32,050	36.8105	29.6	1,432	3,439	128
9	Zorlu Enerji Pakistan	56	56	36,609	19.3344	29.7	1,247	4,655	90
10	Three Gorges First Wind Farm Pakistan	50	50	30,825	17.1574	28.5	1,040	1,802	59
11	Hydrochina Dawood Power	50	50	33,179	47.0233	30.7	1,767	2,813	133
12	Sachal Energy Development	50	50	29,216	41.8904	27.0	2,277	3,235	128
13	Tenaga Generasi	50	50	33,343	43.6440	30.5	1,465	2,782	121
14	Hawa Energy	50	50	38,474	36.1540	35.4	1,638	3,728	135
15	Metro Power Company	50	50	34,571	34.2239	31.7	1,947	3,579	127
16	ACT Wind	30	30	20,562	29.0194	31.4	618	700	20
17	Jhimpir Power	50	50	41,157	36.1540	37.9	1,699	3,825	138
18	Foundation Wind Energy-I	50	50	34,339	21.0235	31.4	1,348	3,973	82
19	Liberty Wind Power-I	50	50	40,166	13.8368	36.8	618	3,700	51
20	DIN Energy	50	50	39,590	13.6814	36.3	612	3,744	52
21	Tricon Boston-C	50	50	43,785	37.0198	40.3	1,839	3,791	141
22	Tricon Boston-B	50	50	44,706	37.0198	41.2	1,915	3,879	144
23	Foundation Wind Energy-II	50	50	36,771	21.6137	33.7	1,318	4,105	89
24	Liberty Wind Power-II	50	50	42,152	13.8368	38.6	721	3,777	52
25	Master Green Energy	50	50	40,429	13.9020	37.0	660	3,378	48
26	Artistic Wind Power	50	50	45,778	13.7054	41.9	1,088	3,895	54
27	Tricon Boston-A	50	50	47,421	37.0198	43.7	2,015	3,916	145
28	Lakeside Energy Limited	50	50	48,122	13.6246	44.1	745	20,841	57
29	Lucky Renewables	50	50	41,888	14.3949	38.4	689	3,819	55
30	NASDA Green Energy	50	50	46,520	13.6537	42.6	635	4,199	55
31	Gul Ahmed Electric	50	50	49,729	13.6632	45.5	779	4,087	56
32	ACT2 DIN Wind	50	50	46,955	13.7052	43.0	737	4,005	55
33	Indus Wind Energy	50	50	51,066	13.8918	46.8	776	3,945	55
34	Zephyr Power	50	50	43,974	32.0640	40.3	2,075	3,546	114
35	Artistic Energy	50	49	51,011	20.3902	47.3	694	2,409	49
36	Metro Wind Power	60	60	62,785	16.5923	47.9	1,403	4,678	78
	Total	**1,848**	**1,843**	**1,432,975**	**-**	**35.6**	**47,226**	**146,559**	**3,510**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	5,125	29.0136	19.6	149	0	0
2	Quaid E Azam Solar	100	100	43,031	29.6540	19.7	2,109	0	0
3	Best Green Energy Pakistan	100	100	44,234	47.8077	20.3	2,119	0	0
4	Appolo Solar Development Pakistan	100	100	44,836	45.9149	20.5	1,914	0	0
5	Crest Energy Pakistan	100	100	45,065	48.2912	20.6	2,180	0	0
6	Harappa Solar	18	18	9,568	29.2691	24.3	301	15,068	0
7	Atlas Solar	100	100	60,306	12.5364	27.6	679	22	0
8	HNDS Energy	50	50	28,268	11.1494	25.9	324	261	3
9	Helios Power	50	50	28,548	11.1494	26.1	327	205	2
10	Meridian Energy	50	50	28,658	11.1494	26.2	327	54	1
	Total	**680**	**680**	**337,640**	**-**	**22.7**	**10,428**	**15,610**	**7**

Annex-I
April, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	April, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	10,582	45.5725	27.8	523	165	8
2	FFC Energy Limited	50	50	8,996	13.2769	25.2	170	293	4
3	Gul Ahmed Wind Power	50	50	11,496	40.7359	31.9	501	223	9
4	Yunus Energy	50	50	11,269	34.7800	31.3	423	212	7
5	UEP Wind Power	99	99	19,817	47.0430	27.8	1,006	440	21
6	Master Wind Energy	50	50	10,179	40.7359	28.6	604	197	8
7	Three Gorges Second Wind Farm Pakistan	50	50	10,355	36.8105	29.1	407	242	9
8	Three Gorges Third Wind Farm Pakistan	50	50	10,856	36.8105	30.5	518	238	9
9	Zorlu Enerji Pakistan	56	56	11,764	19.3344	29.0	372	402	8
10	Three Gorges First Wind Farm Pakistan	50	50	9,560	17.1574	26.8	326	323	6
11	Hydrochina Dawood Power	50	50	11,422	47.0233	32.0	611	165	8
12	Sachal Energy Development	50	50	8,694	41.8904	24.4	481	364	7
13	Tenaga Generasi	50	50	11,255	43.6440	31.3	387	164	7
14	Hawa Energy	50	50	11,187	36.1540	31.2	449	272	10
15	Metro Power Company	50	50	11,785	34.2239	32.7	482	310	11
16	ACT Wind	30	30	6,272	29.0194	29.0	184	42	1
17	Jhimpir Power	50	50	12,262	36.1540	34.2	488	280	10
18	Foundation Wind Energy-I	50	50	11,305	21.0235	31.4	185	325	5
19	Liberty Wind Power-I	50	50	14,105	13.8368	39.2	211	371	5
20	DIN Energy	50	50	13,661	13.6814	37.9	201	375	5
21	Tricon Boston-C	50	50	16,094	37.0198	44.9	618	314	12
22	Tricon Boston-B	50	50	15,615	37.0198	43.6	636	316	12
23	Foundation Wind Energy-II	50	50	11,816	21.6137	32.8	307	333	7
24	Liberty Wind Power-II	50	50	14,429	13.8368	40.1	223	372	5
25	Master Green Energy	50	50	9,310	13.9020	25.9	172	170	2
26	Artistic Wind Power	50	50	15,869	13.7054	44.1	361	432	6
27	Tricon Boston-A	50	50	17,098	37.0198	47.7	674	320	12
28	Lakeside Energy Limited	50	50	16,828	13.6246	46.7	264	17,040	5
29	Lucky Renewables	50	50	11,929	14.3949	33.1	208	335	5
30	NASDA Green Energy	50	50	16,320	13.6537	45.3	59	325	4
31	Gul Ahmed Electric	50	50	17,706	13.6632	49.2	257	323	4
32	ACT2 DIN Wind	50	50	15,313	13.7052	42.5	253	399	5
33	Indus Wind Energy	50	50	18,144	13.8918	50.4	269	425	6
34	Zephyr Power	50	50	15,077	32.0640	41.9	522	268	9
35	Artistic Energy	50	49	17,605	20.3902	49.5	239	143	3
36	Metro Wind Power	60	60	22,402	16.5923	51.9	611	396	7
	Total	**1,848**	**1,843**	**478,378**	**-**	**36.1**	**14,205**	**27,312**	**263**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,810	29.0136	20.9	53	0	0
2	Quaid E Azam Solar	100	100	15,247	29.6540	21.2	609	0	0
3	Best Green Energy Pakistan	100	100	15,643	47.8077	21.7	752	0	0
4	Appolo Solar Development Pakistan	100	100	15,936	45.9149	22.1	738	0	0
5	Crest Energy Pakistan	100	100	15,832	48.2912	22.0	775	0	0
6	Harappa Solar	18	18	3,332	29.2691	25.7	106	4,924	0
7	Atlas Solar	100	100	21,288	12.5364	29.6	189	11	0
8	HNDS Energy	50	50	8,688	11.1494	24.1	163	261	3
9	Helios Power	50	50	8,776	11.1494	24.4	166	205	2
10	Meridian Energy	50	50	8,827	11.1494	24.5	167	54	1
	Total	**680**	**680**	**115,378**	**-**	**23.6**	**3,718**	**5,456**	**6**

Annex-I
May, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	May, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	9,127	45.5725	23.2	539	2,586	118
2	FFC Energy Limited	50	50	8,395	13.2769	22.8	204	1,762	25
3	Gul Ahmed Wind Power	50	50	9,542	40.7359	25.7	454	1,640	67
4	Yunus Energy	50	50	9,510	34.7800	25.6	388	1,684	59
5	UEP Wind Power	99	99	16,811	47.0430	22.8	935	3,053	144
6	Master Wind Energy	50	50	10,231	40.7359	27.8	565	1,749	71
7	Three Gorges Second Wind Farm Pakistan	50	50	9,376	36.8105	25.5	429	1,884	70
8	Three Gorges Third Wind Farm Pakistan	50	50	9,545	36.8105	25.9	434	1,850	69
9	Zorlu Enerji Pakistan	56	56	11,007	19.3344	26.2	194	2,451	47
10	Three Gorges First Wind Farm Pakistan	50	50	10,099	17.1574	27.4	173	1,480	27
11	Hydrochina Dawood Power	50	50	9,934	47.0233	27.0	479	1,487	70
12	Sachal Energy Development	50	50	9,673	41.8904	26.3	984	1,069	45
13	Tenaga Generasi	50	50	10,015	43.6440	26.9	500	1,436	63
14	Hawa Energy	50	50	11,985	36.1540	32.4	521	2,053	74
15	Metro Power Company	50	50	10,686	34.2239	28.7	389	1,400	50
16	ACT Wind	30	30	6,951	29.0194	31.1	202	266	8
17	Jhimpir Power	50	50	12,828	36.1540	34.7	494	2,130	77
18	Foundation Wind Energy-I	50	50	10,642	21.0235	28.6	631	1,844	39
19	Liberty Wind Power-I	50	50	11,963	13.8368	32.2	193	1,974	27
20	DIN Energy	50	50	11,773	13.6814	31.6	168	1,996	28
21	Tricon Boston-C	50	50	12,794	37.0198	34.6	552	2,108	78
22	Tricon Boston-B	50	50	13,208	37.0198	35.7	568	2,137	79
23	Foundation Wind Energy-II	50	50	11,430	21.6137	30.7	461	1,846	40
24	Liberty Wind Power-II	50	50	12,625	13.8368	33.9	270	2,043	28
25	Master Green Energy	50	50	12,577	13.9020	33.8	203	1,820	26
26	Artistic Wind Power	50	50	14,144	13.7054	38.0	356	2,048	28
27	Tricon Boston-A	50	50	13,749	37.0198	37.2	589	2,163	80
28	Lakeside Energy Limited	50	50	14,067	13.6246	37.8	197	2,275	31
29	Lucky Renewables	50	50	13,007	14.3949	35.0	217	2,081	30
30	NASDA Green Energy	50	50	13,487	13.6537	36.3	328	2,357	30
31	Gul Ahmed Electric	50	50	14,697	13.6632	39.5	265	2,259	31
32	ACT2 DIN Wind	50	50	14,844	13.7052	39.9	203	2,179	30
33	Indus Wind Energy	50	50	14,847	13.8918	39.9	236	2,119	29
34	Zephyr Power	50	50	12,729	32.0640	34.2	733	1,872	60
35	Artistic Energy	50	49	16,379	20.3902	44.6	222	1,088	22
36	Metro Wind Power	60	60	17,904	16.5923	40.1	297	2,561	42
	Total	**1,848**	**1,843**	**432,582**	-	**31.6**	**14,572**	**68,747**	**1,841**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,735	29.0136	19.4	50	0	0
2	Quaid E Azam Solar	100	100	14,732	29.6540	19.8	776	0	0
3	Best Green Energy Pakistan	100	100	15,081	47.8077	20.3	721	0	0
4	Appolo Solar Development Pakistan	100	100	15,310	45.9149	20.6	552	0	0
5	Crest Energy Pakistan	100	100	15,534	48.2912	20.9	750	0	0
6	Harappa Solar	18	18	3,304	29.2691	24.7	100	10,144	0
7	Atlas Solar	100	100	20,331	12.5364	27.3	257	11	0
8	HNDS Energy	50	50	9,952	11.1494	26.8	63	0	0
9	Helios Power	50	50	10,001	11.1494	26.9	63	0	0
10	Meridian Energy	50	50	10,039	11.1494	27.0	63	0	0
	Total	**680**	**680**	**116,018**	**-**	**22.9**	**3,396**	**10,155**	**0**

Annex-I
June, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	June, 2025					
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	NPMV	NPMV Amount
D. RENEWABLE (Wind)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**MWh**	**Rs. Million**
1	Sapphire Wind Power Company Limited	53	53	11,808	45.5725	31.1	582	1,236	56
2	FFC Energy Limited	50	50	10,514	13.2769	29.5	523	1,587	22
3	Gul Ahmed Wind Power	50	50	11,592	40.7359	32.2	616	1,202	49
4	Yunus Energy	50	50	11,495	34.7800	31.9	443	1,230	43
5	UEP Wind Power	99	99	20,360	47.0430	28.6	1,070	2,399	113
6	Master Wind Energy	50	50	12,715	40.7359	35.7	566	1,183	48
7	Three Gorges Second Wind Farm Pakistan	50	50	11,632	36.8105	32.6	482	1,348	50
8	Three Gorges Third Wind Farm Pakistan	50	50	11,649	36.8105	32.7	480	1,352	50
9	Zorlu Enerji Pakistan	56	56	13,837	19.3344	34.1	681	1,802	35
10	Three Gorges First Wind Farm Pakistan	50	50	11,166	17.1574	31.3	541	0	27
11	Hydrochina Dawood Power	50	50	11,823	47.0233	33.2	677	1,162	55
12	Sachal Energy Development	50	50	10,849	41.8904	30.4	812	1,802	75
13	Tenaga Generasi	50	50	12,072	43.6440	33.5	578	1,182	52
14	Hawa Energy	50	50	15,302	36.1540	42.7	668	1,403	51
15	Metro Power Company	50	50	12,100	34.2239	33.6	1,076	1,869	66
16	ACT Wind	30	30	7,340	29.0194	34.0	232	392	11
17	Jhimpir Power	50	50	16,067	36.1540	44.9	717	1,415	51
18	Foundation Wind Energy-I	50	50	12,391	21.0235	34.4	533	1,804	38
19	Liberty Wind Power-I	50	50	14,098	13.8368	39.2	214	1,354	19
20	DIN Energy	50	50	14,157	13.6814	39.3	243	1,374	19
21	Tricon Boston-C	50	50	14,897	37.0198	41.6	669	1,369	51
22	Tricon Boston-B	50	50	15,883	37.0198	44.4	712	1,426	53
23	Foundation Wind Energy-II	50	50	13,525	21.6137	37.6	550	1,926	42
24	Liberty Wind Power-II	50	50	15,098	13.8368	41.9	228	1,362	19
25	Master Green Energy	50	50	18,542	13.9020	51.5	285	1,387	20
26	Artistic Wind Power	50	50	15,765	13.7054	43.8	371	1,415	19
27	Tricon Boston-A	50	50	16,575	37.0198	46.3	752	1,434	53
28	Lakeside Energy Limited	50	50	17,227	13.6246	47.9	284	1,526	21
29	Lucky Renewables	50	50	16,952	14.3949	47.1	264	1,402	20
30	NASDA Green Energy	50	50	16,712	13.6537	46.4	249	1,517	21
31	Gul Ahmed Electric	50	50	17,326	13.6632	48.1	257	1,505	21
32	ACT2 DIN Wind	50	50	16,798	13.7052	46.7	280	1,426	20
33	Indus Wind Energy	50	50	18,074	13.8918	50.2	271	1,402	19
34	Zephyr Power	50	50	16,168	32.0640	44.9	820	1,406	45
35	Artistic Energy	50	49	17,027	20.3902	47.9	232	1,178	24
36	Metro Wind Power	60	60	22,479	16.5923	52.0	495	1,722	29
	Total	**1,848**	**1,843**	**522,015**	**-**	**39.3**	**18,450**	**50,500**	**1,406**
D. RENEWABLE (Solar)									
1	AJ Power	12	12	1,580	29.0136	18.3	46	0	0
2	Quaid E Azam Solar	100	100	13,052	29.6540	18.1	724	0	0
3	Best Green Energy Pakistan	100	100	13,510	47.8077	18.8	646	0	0
4	Appolo Solar Development Pakistan	100	100	13,590	45.9149	18.9	624	0	0
5	Crest Energy Pakistan	100	100	13,700	48.2912	19.0	655	0	0
6	Harappa Solar	18	18	2,933	29.2691	22.6	94	0	0
7	Atlas Solar	100	100	18,687	12.5364	26.0	234	0	0
8	HNDS Energy	50	50	9,628	11.1494	26.7	97	0	0
9	Helios Power	50	50	9,771	11.1494	27.1	98	0	0
10	Meridian Energy	50	50	9,792	11.1494	27.2	97	0	0
	Total	**680**	**680**	**106,243**	**-**	**21.7**	**3,315**	**0**	**0**

Annex-I
April - June, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	April-June, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	8.6818	0.0	12	-405
2	Chanar Energy	22	22	465	8.8156	1.0	-1	5
3	Thal Industries Corporation	41	22	0	8.7468	0.0	5	-450
4	Almoiz Industries	36	21	8,678	8.8153	19.2	63	-114
5	RYK Mills	40	40	0	8.5330	0.0	49	-644
6	Chiniot Power	63	63	0	9.7264	0.0	476	-20
7	JDW-III	27	24	48,234	4.6109	90.5	84	-66
8	JDW-II	26	24	48,112	4.6109	90.4	74	-81
9	Shahtaj Sugar Mills	32	22	140	-	0.3	0	1
	Total	**302**	**254**	**105,628**	**-**	**19.1**	**762**	**-1,774**

Annex-I
April, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	April, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	8.6818	0.0	12	0
2	Chanar Energy	22	22	0	8.8156	0.0	-1	0
3	Thal Industries Corporation	41	22	0	8.7468	0.0	5	23
4	Almoiz Industries	36	21	3,156	8.8153	21.2	23	23
5	RYK Mills	40	40	0	8.5330	0.0	30	52
6	Chiniot Power	63	63	0	9.7264	0.0	-74	-42
7	JDW-III	27	24	17,077	4.6109	97.2	27	-297
8	JDW-II	26	24	16,680	4.6109	95.1	4	-313
9	Shahtaj Sugar Mills	32	22	0	-	0.0	0	0
	Total	**302**	**254**	**36,913**	**-**	**17.0**	**25**	**-553**

Annex-I
May, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	May, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	8.6818	0.0	0	0
2	Chanar Energy	22	22	465	8.8156	2.8	0	3
3	Thal Industries Corporation	41	22	0	8.7468	0.0	0	0
4	Almoiz Industries	36	21	5,305	8.8153	34.5	39	39
5	RYK Mills	40	40	0	8.5330	0.0	19	0
6	Chiniot Power	63	63	0	9.7264	0.0	553	22
7	JDW-III	27	24	13,935	4.6109	76.7	40	103
8	JDW-II	26	24	13,950	4.6109	76.9	29	103
9	Shahtaj Sugar Mills	32	22	100	-	0.6	0	1
	Total	**302**	**254**	**33,755**	**-**	**17.9**	**680**	**272**

Annex-I
June, 2025
Renewable

Details of EPP, CPP and Other Suplemental Charges

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	June, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	CPP	EPP
D. RENEWABLE (Bagasse)		**MW**	**MW**	**MWh**	**Rs./kWh**	**%**	**Rs. Million**	**Rs. Million**
1	Hamza Sugar Mills	15	15	0	8.6818	0.0	0	-405
2	Chanar Energy	22	22	0	8.8156	0.0	0	2
3	Thal Industries Corporation	41	22	0	8.7468	0.0	0	-473
4	Almoiz Industries	36	21	217	8.8153	1.5	2	-177
5	RYK Mills	40	40	0	8.5330	0.0	0	-697
6	Chiniot Power	63	63	0	9.7264	0.0	-2	0
7	JDW-III	27	24	17,222	4.6109	98.0	16	127
8	JDW-II	26	24	17,481	4.6109	99.6	41	129
9	Shahtaj Sugar Mills	32	22	40	-	0.3	0	0
	Total	**302**	**254**	**34,960**	**-**	**19.1**	**57**	**-1,494**

Annex-I
April - June, 2025
Thermal

Sr. No.	Plant Name	Inst. Capacity	Ref. Capacity	April, 2025				May, 2025				June, 2025				April-June, 2025			
				Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	Energy Cost
		MW	MW	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million	MWh	Rs./kWh	%	Rs. Million
A. THERMAL (Gas)																			
1	BQPS II	573	526	7,821	-	2.1	80	167,271	-	42.7	1,635	116,747	-	30.8	1,129	291,839	-	25.4	2,844
2	KCCP	248	227	5,630	-	3.4	66	0	-	0.0	0	0	-	0.0	0	5,630	-	1.1	66
3	BQPS I	420	379	0	-	0.0	0	16,540	-	5.9	219	68,913	-	25.3	928	85,452	-	10.3	1,147
4	KGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
5	SGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
6	SNPC-I	52	51	21,577	4.0824	58.8	234	21,533	4.0824	56.7	235	14,722	4.0824	40.1	160	57,832	4.0824	51.9	629
7	SNPC-II	52	51	21,303	4.0532	58.0	231	27,983	4.0532	73.7	303	17,575	4.0532	47.9	190	66,861	4.0532	60.0	724
	Total (Gas)	**1,559**	**1,426**	**56,330**	**-**	**5.5**	**611**	**233,327**	**-**	**22.0**	**2,392**	**217,957**	**-**	**21.2**	**2,407**	**507,614**	**-**	**16.3**	**5,410**
A. THERMAL (Coal-Imported)																			
1	FFBL Power Company Ltd.	52	52	27,087	2.4441	72.3	502	25,614	2.4441	66.2	441	19,806	2.4441	52.9	306	72,507	2.4441	63.8	1,249
	Total (Coal-Imported)	**52**	**52**	**27,087**	**-**	**72.3**	**502**	**25,614**	**-**	**66.2**	**441**	**19,806**	**-**	**52.9**	**306**	**72,507**	**-**	**63.8**	**1,249**
A. THERMAL (RLNG)																			
1	BQPS-III	942	918	382,483	-	57.9	8,072	548,677	-	80.3	11,077	541,373	-	81.9	10,918	1,472,532	-	73.4	30,067
2	BQPS -II	573	526	795	-	0.2	23	37,918	-	9.7	969	109,906	-	29.0	2,860	148,619	-	12.9	3,852
3	BQPS-I	420	379	0	-	0.0	0	4,002	-	1.4	153	33,701	-	12.3	1,269	37,702	-	4.6	1,422
4	KCCP	248	227	160	-	0.1	6	161	-	0.1	7	1,779	-	1.1	61	2,100	-	0.4	74
5	KGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
6	SGTPS	107	96	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0	0	-	0.0	0
7	ISL	19	17	148	-	1.2	0	22	-	0.2	0	125	-	1.0	0	295	-	0.8	0
8	Lucky	30	5	370	-	10.3	14	474	-	12.7	16	477	-	13.3	15	1,321	-	12.1	45
	Total (RLNG)	**2,446**	**2,264**	**383,956**	**-**	**23.6**	**8,115**	**591,254**	**-**	**35.1**	**12,222**	**687,360**	**-**	**42.2**	**15,123**	**1,662,569**	**-**	**33.6**	**35,460**
A. THERMAL (RFO)																			
1	BQPS-I	420	379	0	-	0.0	0	0	-	0.0	0	397		0.1	17	397	-	0.0	17
	Total (RFO)	**420**	**379**	**0**	**-**	**0.0**	**0**	**0**	**-**	**0.0**	**0**	**397**	**-**	**0.1**	**17**	**397**	**-**	**0.0**	**17**
A. THERMAL (HSD)																			
1	KCCP	248	227	0	-	0.0	0	0	-	0.0	0	0	-	0.0	11	0	-	0.0	11
	Total (HSD)	**248**	**227**	**0**	**-**	**0.0**	**0**	**0**	**-**	**0.0**	**0**	**0**	**-**	**0.0**	**11**	**0**	**-**	**0.0**	**11**

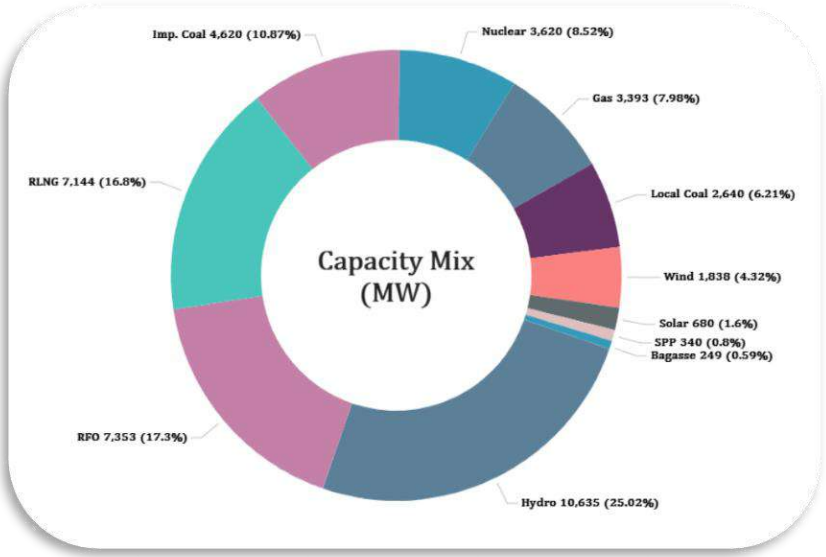
KE plants other than BQPS III are primarily operated on Local Gas and can switch to RLNG or HSD depending on fuel availability and other technical constraints. The capacity shown under each fuel type represents the same plant operating on alternate fuels and should not be interpreted as additional capacity

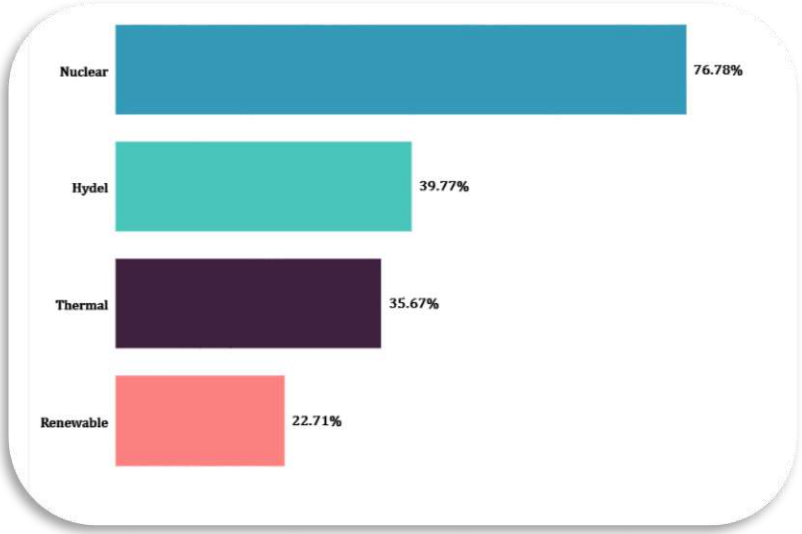
Annex-I
April - June, 2025
Renewable

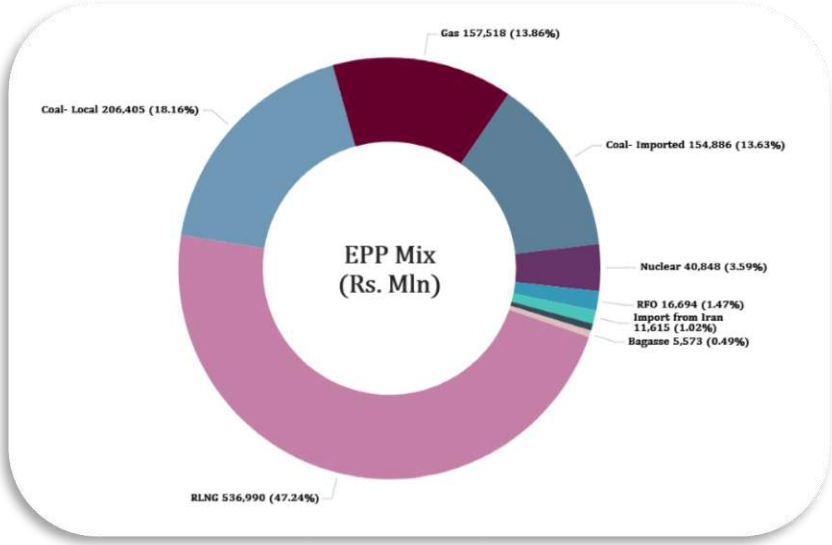
Sr. No	Plant Name	Inst. Capacity	Ref. Capacity	April, 2025					May, 2025					June, 2025					April-June, 2025				
				Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost	Net Generation	Tariff Adjusted	Utilization Factor	NPMV	Energy Cost
		MW	MW	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million	MWh	Rs./kWh	%	MWh	Rs. Million
B. RENEWABLE (Solar)																							
1	OURSUN Pakistan Ltd.	50	50	9,195	-	25.5	0	285	8,477	-	22.8	0	263	6,849	-	19.0	0	213	24,521	-	22.5	0	**761**
2	Gharo Solar Ltd.	50	50	11,449	-	31.8	0	195	10,546	-	28.3	0	180	7,683	-	21.3	0	131	29,678	-	27.2	0	**507**
	Total (Solar)	**100**	**100**	**20,644**	**-**	**28.7**	**0**	**481**	**19,023**	**-**	**25.6**	**0**	**443**	**14,532**	**-**	**20.2**	**0**	**344**	**54,199**	**-**	**24.8**	**0**	**1,267**

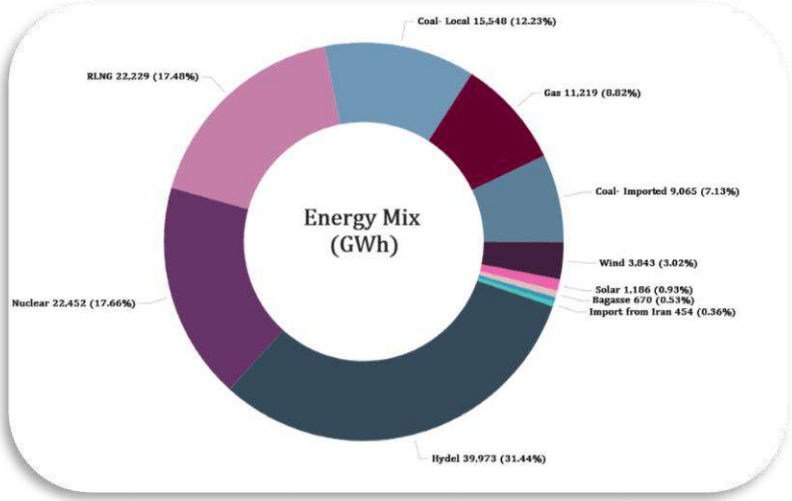
Details of Capacity, Energy, and EPP Mix in CPPA-G System, Along with Combined Utilization Factor of Power Plants Across Different Technologies – July 2024 to June 2025

July 2024 to June 2025

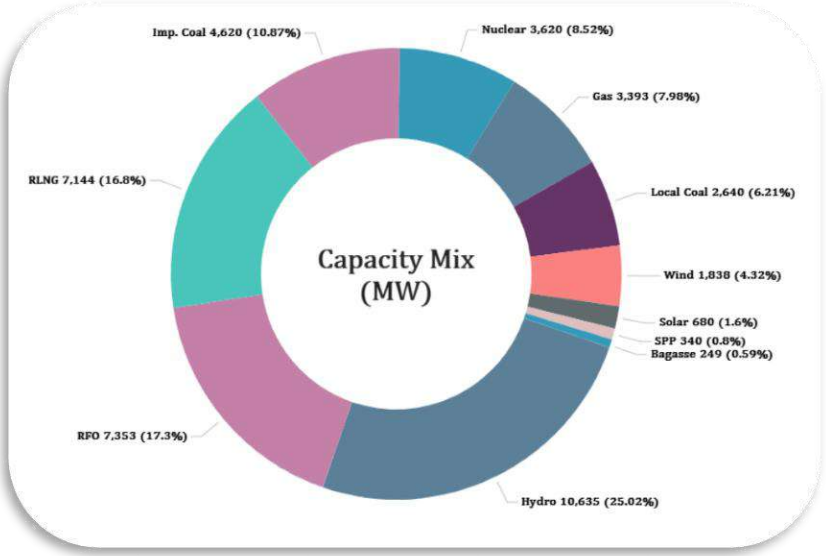


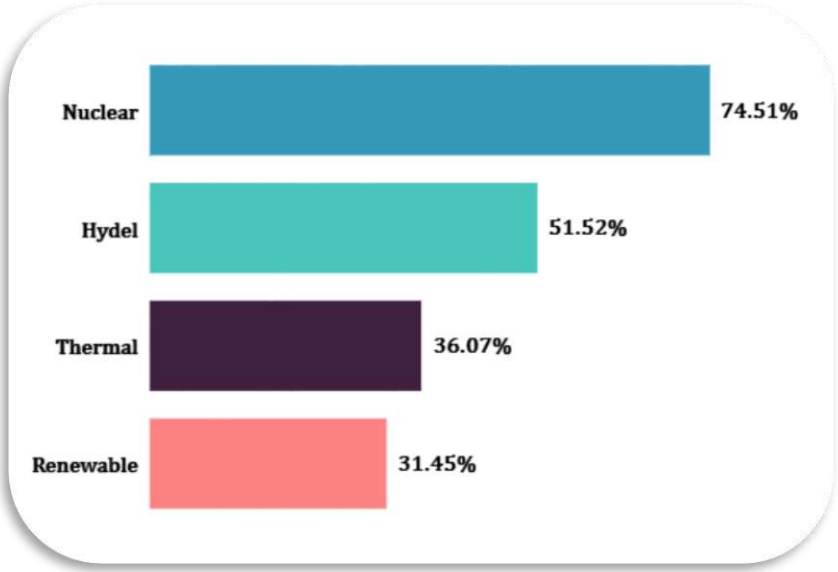


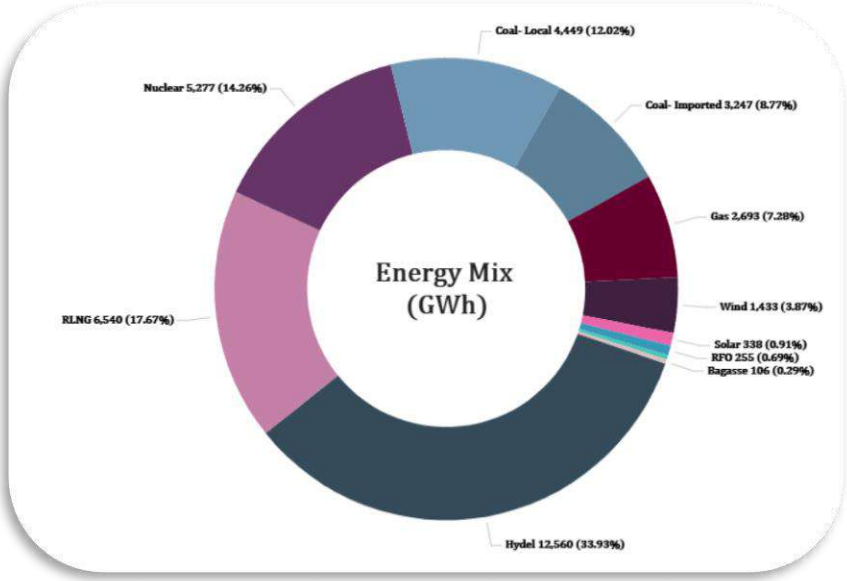


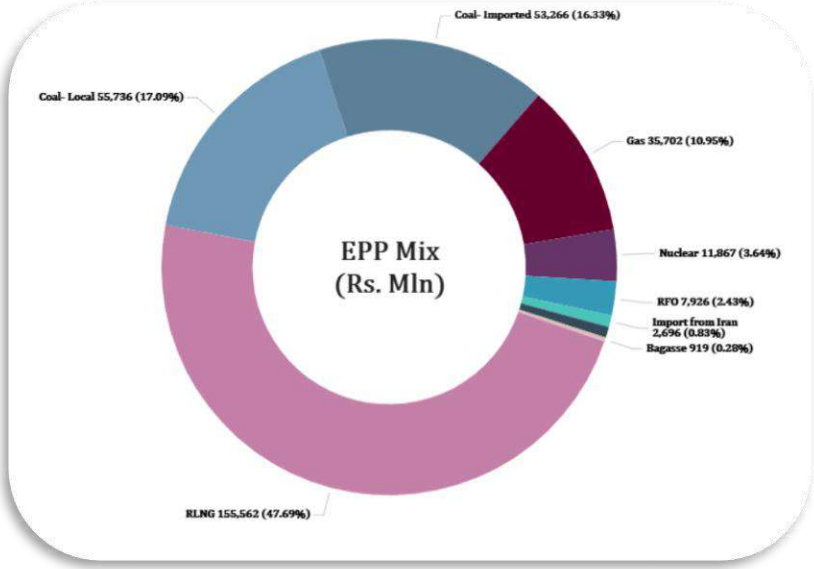


April to June 2025









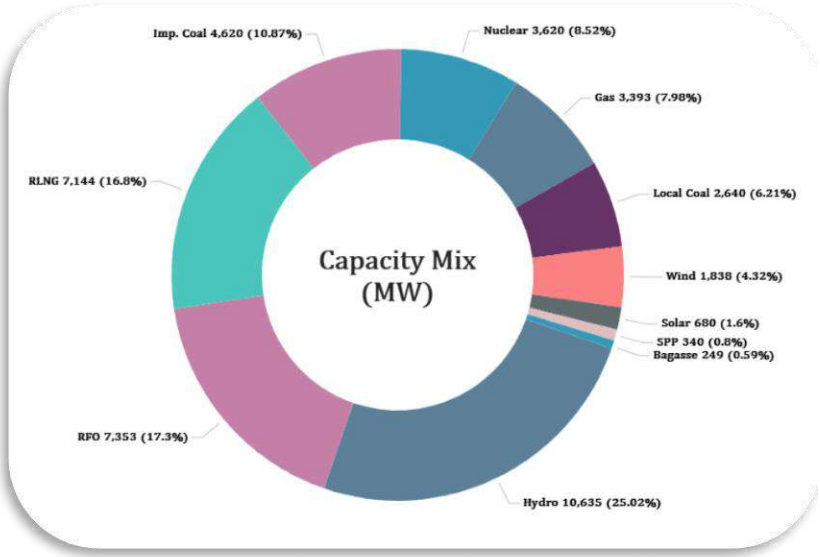


Figure 1 - Capacity Mix

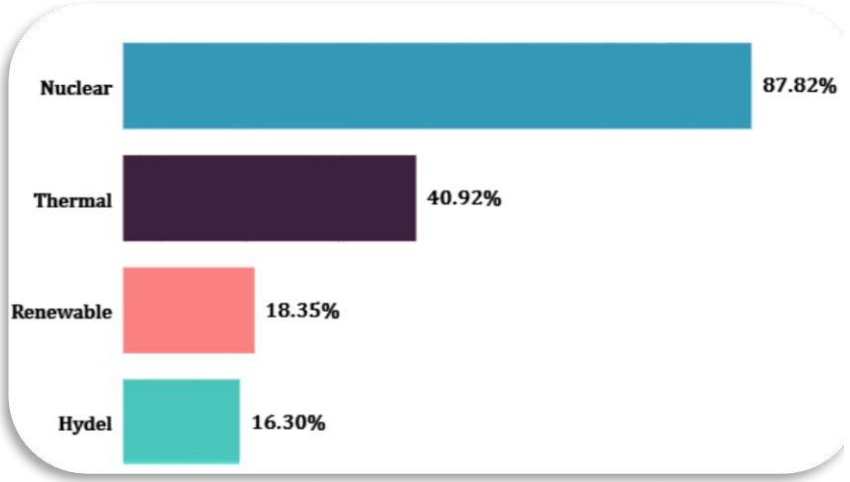


Figure 2 - Utilization Factor

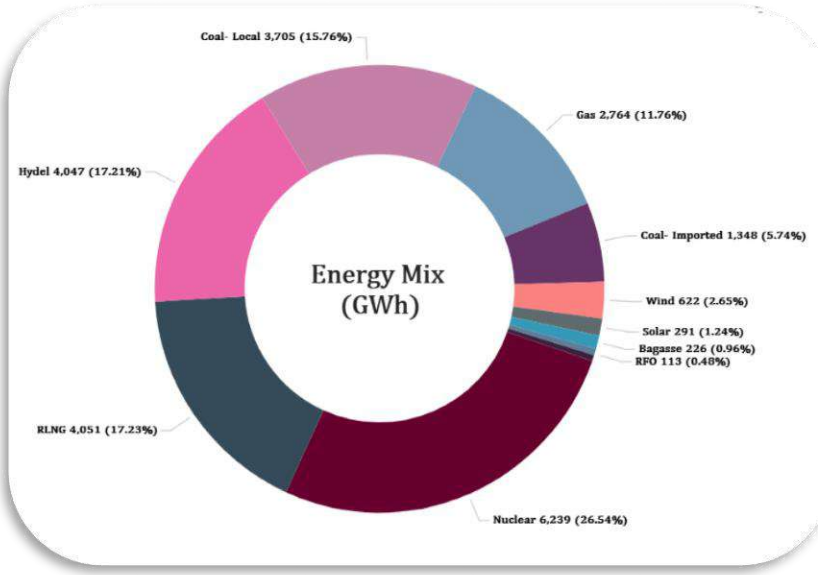


Figure 3 - Energy Mix

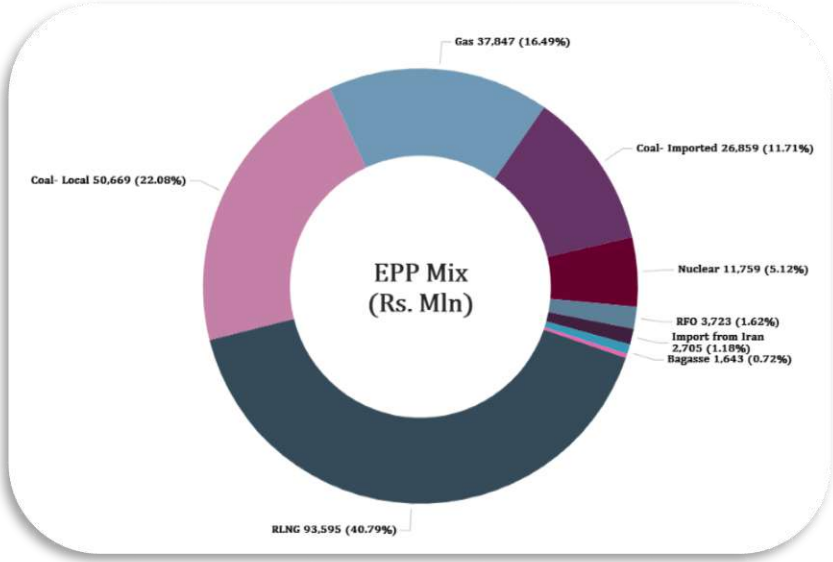


Figure 4 - EPP Mix

October to December 2024

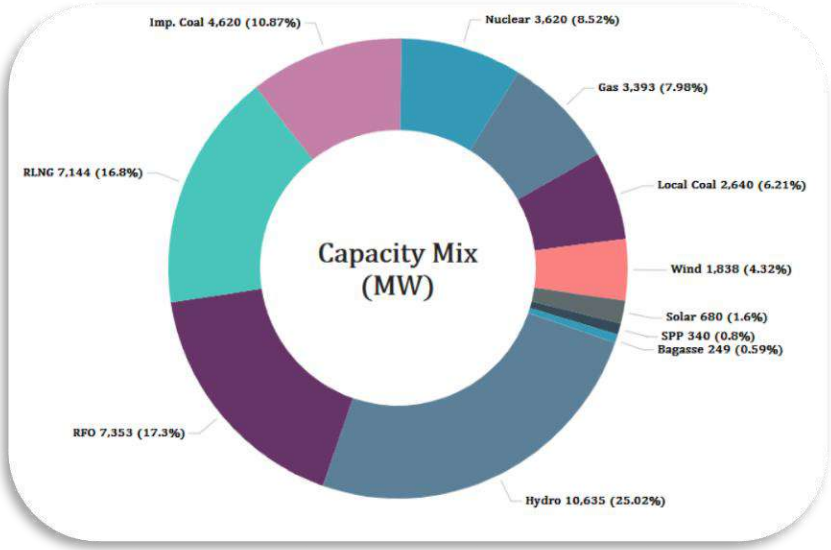


Figure 5 - Capacity Mix

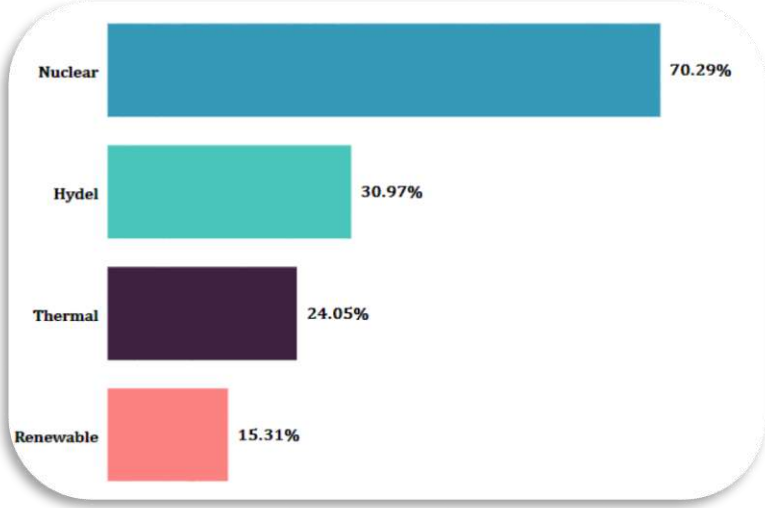


Figure 6 - Utilization Factor

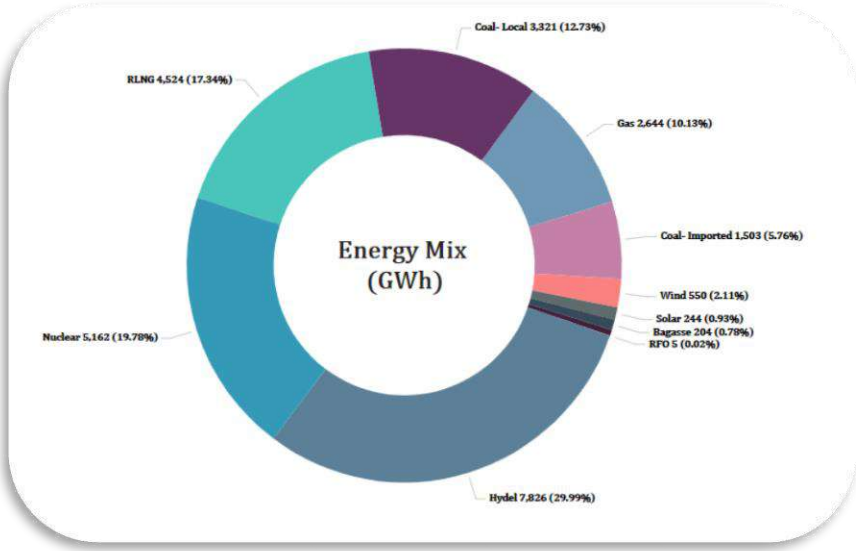


Figure 7 - Energy Mix

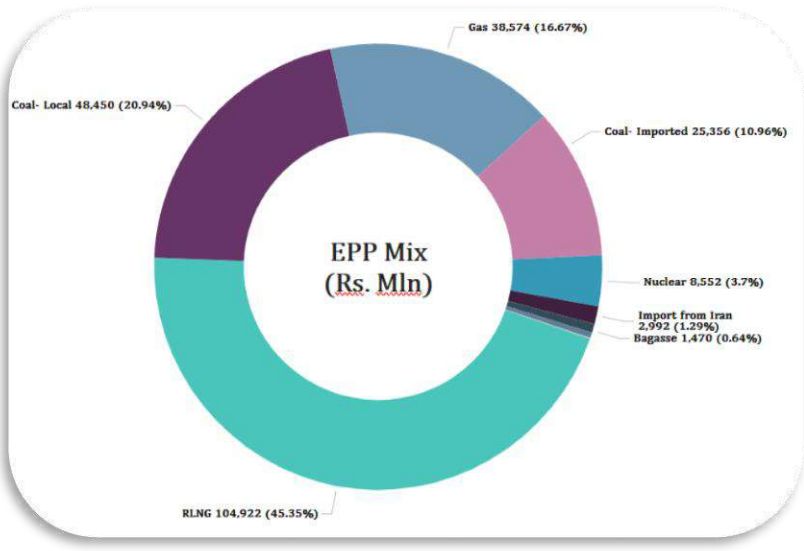


Figure 8 - EPP Mix

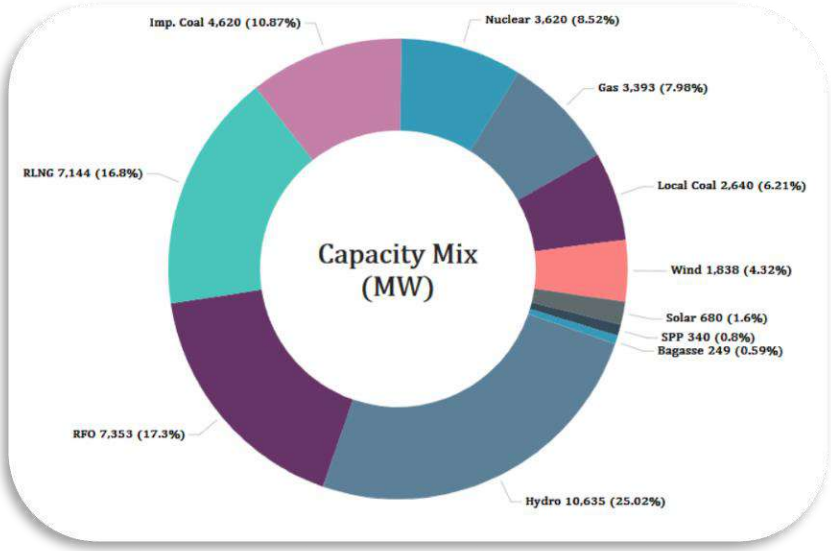


Figure 9 - Capacity Mix

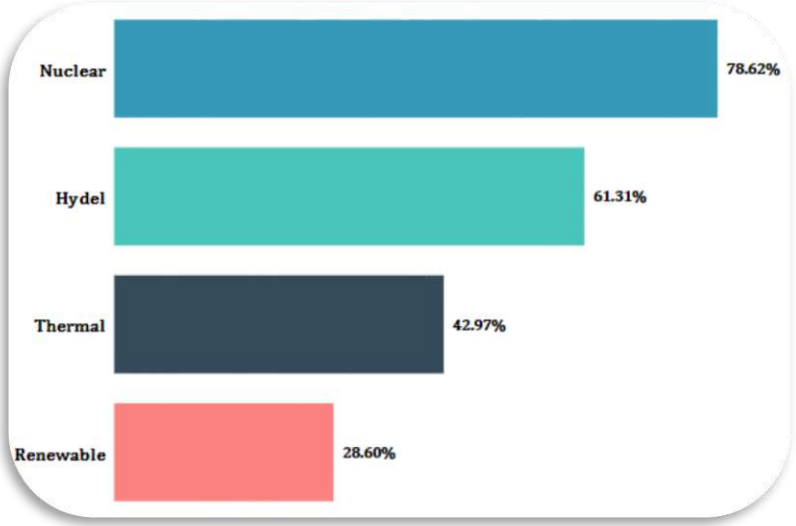


Figure 10 - Utilization Factor

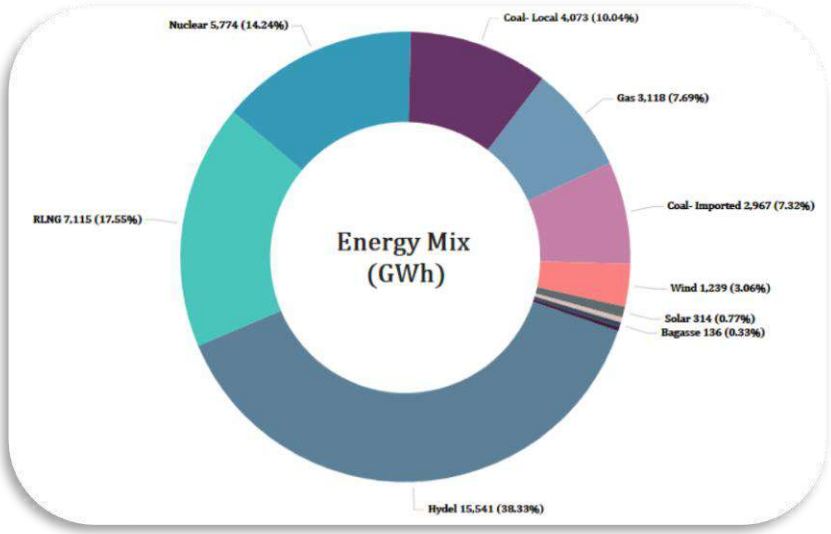


Figure 11 - Energy Mix

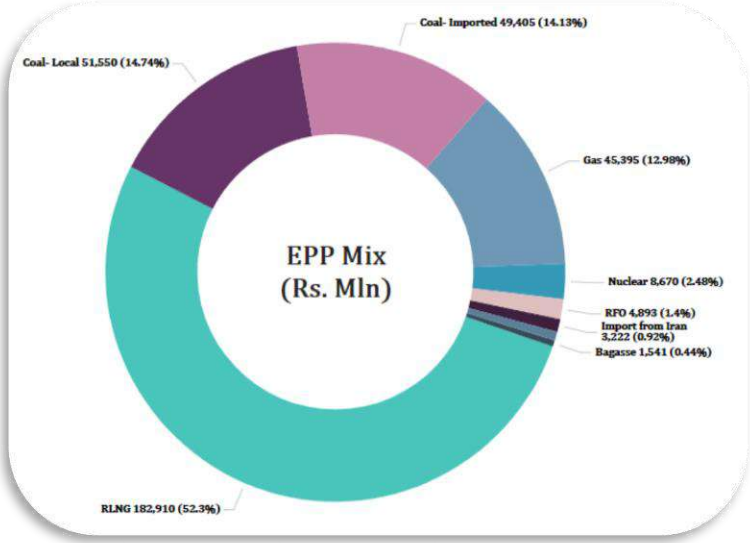


Figure 12 - EPP Mix

Energy Mix (GWh) – 2023-24

Type	July	August	September	October	November	December	January	February	March	April	May	June
Bagasse	40	38	35	29	27	101	106	101	78	56	57	60
Coal- Imported	702	719	644	336	486	384	576	135	-	21	383	637
Coal- Local	1,478	1,638	1,479	1,334	987	1,310	1,373	994	862	881	1,372	1,489
Gas	1,129	1,214	1,005	704	695	826	1,035	787	795	975	1,110	1,166
HSD	-	-	-	-	-	6	102	-	-	-	-	-
Hydel	5,518	6,006	5,009	3,114	2,755	1,859	924	1,766	2,217	2,070	3,906	4,729
Import from Iran	29	26	24	23	30	28	29	26	28	37	50	48
Nuclear	2,107	2,040	2,286	1,826	1,572	1,464	1,728	1,660	2,070	2,043	2,360	1,998
RFO	295	649	241	(1)	0	168	750	-	-	0	62	263
RLNG	2,918	2,741	2,128	1,939	798	1,268	1,514	1,450	1,658	2,157	2,748	2,437
Solar	75	84	79	76	50	62	48	90	110	113	125	118
Wind	549	805	410	191	148	150	128	108	205	287	445	516
Total	**14,839**	**15,959**	**13,339**	**9,570**	**7,547**	**7,627**	**8,314**	**7,116**	**8,023**	**8,639**	**12,617**	**13,459**

Energy Mix (GWh) – 2024-25

Type	July	August	September	October	November	December	January	February	March	April	May	June
Bagasse	53	47	36	50	52	101	95	79	51	37	34	35
Coal- Imported	1,137	681	1,149	903	477	124	695	108	545	1,054	796	1,397
Coal- Local	1,506	1,306	1,261	1,518	1,019	784	1,269	1,043	1,393	1,525	1,413	1,510
Gas	1,180	950	988	826	858	960	1,069	716	979	842	883	968
HSD	-	-	-	-	-	-	-	-	-	-	-	-
Hydel	5,341	5,362	4,838	3,187	2,860	1,778	866	1,883	1,297	2,306	4,844	5,410
Import from Iran	48	36	40	42	37	33	34	30	39	32	36	47
Nuclear	1,988	2,190	1,596	1,442	1,655	2,065	2,169	1,847	2,223	1,882	2,012	1,383
RFO	102	6	39	2	0	3	109	-	4	83	20	151
RLNG	2,970	2,106	2,039	2,003	907	1,615	1,542	980	1,528	2,157	2,168	2,216
Solar	110	98	105	99	69	76	86	85	120	115	116	106
Wind	445	398	395	190	98	262	218	174	230	478	433	522
Total	**14,880**	**13,179**	**12,487**	**10,262**	**8,032**	**7,800**	**8,153**	**6,945**	**8,409**	**10,513**	**12,755**	**13,744**

Price Mix – (Rs. Mln) – 2023-24

Type	*July*	*August*	*September*	*October*	*November*	*December*	*January*	*February*	*March*	*April*	*May*	*June*
Bagasse	239	226	206	172	160	606	636	601	470	334	341	357
Coal- Imported	13,938	14,489	10,173	4,461	7,057	6,619	12,126	2,728	-	483	6,438	9,902
Coal- Local	11,226	11,478	11,270	16,147	15,078	16,148	16,366	14,099	14,459	13,938	16,060	16,419
Gas	15,440	16,043	13,592	9,575	10,157	12,061	14,235	9,743	10,881	12,919	14,645	16,238
HSD	-	-	-	-	-	266	4,637	-	-	-	-	-
Hydel	-	-	-	-	-	-	-	-	-	-	-	-
Import from Iran	681	658	577	522	824	934	954	698	862	1,018	1,304	1,270
Nuclear	2,457	2,392	2,738	2,241	1,897	1,928	2,295	2,194	3,205	3,134	3,617	3,049
RFO	8,461	21,632	8,914	3	13	6,485	26,593	-	-	-	1,948	8,312
RLNG	71,293	64,992	51,467	45,945	18,926	33,250	36,792	31,934	36,804	47,730	65,972	60,383
Solar	-	-	-	-	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-	-	-	-	-
Total	***123,736***	***131,910***	***98,938***	***79,066***	***54,113***	***78,296***	***114,634***	***61,996***	***66,680***	***79,556***	***110,324***	***115,931***

Price Mix – (Rs. Mln) – 2024-25

Type	*July*	*August*	*September*	*October*	*November*	*December*	*January*	*February*	*March*	*April*	*May*	*June*
Bagasse	319	583	444	294	312	605	570	471	307	221	202	345
Coal- Imported	18,422	10,777	19,071	15,263	7,118	2,368	14,578	2,047	9,661	17,502	13,376	21,175
Coal- Local	17,061	16,024	15,498	16,982	14,630	13,855	15,911	14,377	17,055	17,097	16,907	17,384
Gas	16,279	12,715	13,514	11,770	11,533	12,870	14,124	9,570	11,644	9,948	11,314	11,992
HSD	-	-	-	-	-	-	-	-	-	-	-	-
Hydel	-	-	-	-	-	-	-	-	-	-	-	-
Import from Iran	1,202	975	1,046	1,074	1,000	919	885	838	982	823	815	1,058
Nuclear	2,943	3,267	2,460	2,181	2,865	3,507	3,935	3,379	4,445	3,960	4,520	3,386
RFO	3,161	172	1,187	58	-	80	3,311	-	107	2,401	574	4,364
RLNG	73,908	54,238	50,894	45,345	21,031	36,705	34,656	21,904	35,321	52,336	51,445	48,461
Solar	-	-	-	-	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-	-	-	-	-
Total	***133,295***	***98,750***	***104,114***	***92,966***	***58,490***	***70,909***	***87,969***	***52,585***	***79,522***	***104,288***	***99,153***	***108,166***

Difference in Energy Mix (GWh)

Type	July	August	September	October	November	December	January	February	March	April	May	June
Bagasse	13	9	1	21	25	0	-11	-22	-27	-19	-23	-25
Coal- Imported	435	-38	505	567	-9	-260	119	-27	0	1033	413	760
Coal- Local	28	-332	-218	184	32	-526	-104	49	531	644	41	21
Gas	51	-264	-17	122	163	134	34	-71	184	-133	-227	-198
HSD	0	0	0	0	0	0	0	0	0	0	0	0
Hydel	-177	-644	-171	73	105	-81	-58	117	-920	236	938	681
Import from Iran	19	10	16	19	7	5	5	4	11	-5	-14	-1
Nuclear	-119	150	-690	-384	83	601	441	187	153	-161	-348	-615
RFO	-193	-643	-202	3	0	-165	-641	0	0	83	-42	-112
RLNG	52	-635	-89	64	109	347	28	-470	-130	0	-580	-221
Solar	35	14	26	23	19	14	38	-5	10	2	-9	-12
Wind	-104	-407	-15	-1	-50	112	90	66	25	191	-12	6
Total	**41**	**-2780**	**-852**	**692**	**485**	**173**	**-161**	**-171**	**386**	**1874**	**138**	**285**

Difference in Fuel Mix (Rs. Mln)

Type	July	August	September	October	November	December	January	February	March	April	May	June
Bagasse	80	357	238	122	153	(1)	(66)	(131)	(163)	(113)	(139)	(12)
Coal- Imported	4,485	(3,712)	8,898	10,802	61	(4,251)	2,452	(681)	9,661	17,019	6,938	11,273
Coal- Local	5,834	4,546	4,228	835	(448)	(2,292)	(455)	278	2,596	3,159	847	965
Gas	839	(3,328)	(78)	2,194	1,375	808	(111)	(172)	763	(2,971)	(3,331)	(4,245)
HSD	-	-	-	-	-	(266)	(4,637)	-	-	-	-	-
Hydel	-	-	-	-	-	-	-	-	-	-	-	-
Import from Iran	520	317	469	551	175	(15)	(69)	140	120	(195)	(489)	(212)
Nuclear	486	874	(278)	(61)	968	1,579	1,640	1,185	1,240	827	903	338
RFO	(5,300)	(21,460)	(7,727)	56	(13)	(6,405)	(23,282)	-	107	2,401	(1,374)	(3,948)
RLNG	2,615	(10,754)	(573)	(600)	2,105	3,455	(2,136)	(10,029)	(1,482)	4,607	(14,527)	(11,922)
Solar	-	-	-	-	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-	-	-	-	-
Total	**9,560**	**(33,160)**	**5,176**	**13,900**	**4,377**	**(7,388)**	**(26,665)**	**(9,411)**	**12,842**	**24,732**	**(11,171)**	**(7,765)**

April 2025 to June 2025

Bagasse

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Bagasse	Hamza Sugar Mills	15	-	-	-	-
Bagasse	Chanar Energy	22	1.70	1.00	-	-
Bagasse	Thal Industries Corporation	22	1.10	-	-	-
Bagasse	Almoiz Industries	21	55.60	18.90	8.68	64
Bagasse	RYK Mills	40	-	-	-	-
Bagasse	Chiniot Power	63	1.10	-	-	-
Bagasse	JDW-III	24	92.40	92.00	48.23	58
Bagasse	JDW-II	24	91.30	91.80	48.11	70

Nuclear

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Nuclear	Chashma Nuclear-II	301	100.00	102.40	676.92	5,656
Nuclear	Karachi Nuclear-3	1,018	81.70	79.20	1,692.95	24,828
Nuclear	Chashma Nuclear-IV	314	93.50	90.20	620.29	11,556
Nuclear	Karachi Nuclear-2	1,018	62.90	61.00	1,344.16	23,182
Nuclear	Chashma Nuclear-III	314	100.00	98.20	657.54	11,789
Nuclear	Chashma Nuclear-I	301	35.40	31.20	204.67	4,428

Coal

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Coal-Imp.	China Power Hub Generation	1,249	89.20	4.90	132.85	30,779
Coal-Imp.	Huaneng Shandong Ruyi Energy	1,244	85.10	63.00	1,710.36	26,426
Coal-Imp.	Lucky Electric Power Company	607	99.20	22.90	303.14	11,405
Coal-Imp.	Port Qasim Electric Power	1,243	99.50	31.20	845.70	27,786
Coal-Local	Engro Powergen Thar	601	99.90	84.20	1,104.64	14,827
Coal-Local	ThalNova Power Thar	301	97.40	71.60	470.61	7,810
Coal-Local	Thar Coal Block-1	1,231	98.20	88.50	2,378.78	30,714
Coal-Local	Thar Energy	301	97.60	75.20	494.48	7,778

Hydel

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Hydel	Allai Khwar	121	99.60	43.00	114	724
Hydel	Chashma Hydel Power	168	75.90	63.2	252	1,012
Hydel	Chichoki	13	99.60	28.4	8	80
Hydel	Chitral Hydel Power	1	99.20	27.1	1	44
Hydel	Daral Khwar Hydropower	36	98.20	94.1	74	-
Hydel	Dargai	20	-	-	-	-
Hydel	Duber Khwar Hydel Power	130	99.60	65.8	187	1,240
Hydel	Ghazi Barotha	1,447	92.90	55.8	1,763	3,849
Hydel	Golen Gol	108	99.70	39.1	92	2,578
Hydel	Gomal Zam	11	18.20	10.7	4	119
Hydel	Gulpur	101	99.80	25.1	55	3,921
Hydel	Jabban Hydel Power	22	98.00	82.1	39	161
Hydel	Jagran	30	94.90	72.5	48	-
Hydel	Jinnah Hydel Power	80	33.30	19.7	41	481
Hydel	Karot	713	100.00	83.2	1,296	20,801
Hydel	Khan Khwar Hydel Power	72	98.60	35.7	56	650
Hydel	Kurram Garhi	4	62.50	28.4	2	56
Hydel	Malakand-III	81	99.30	71.3	128	398
Hydel	Mangla Power	997	76.90	49.6	1,080	3,037
Hydel	Nandipur Hydel Power	14	98.50	36.9	11	107
Hydel	New Bong Escape	84	99.90	51.7	95	2,189
Hydel	NJHPC	968	-	-	-	-
Hydel	Patrind	147	91.70	73.5	236	3,365
Hydel	Ranolia	17	-	-	-	-
Hydel	Rasul Hydel Power	22	44.70	15.9	8	109
Hydel	Renala	1	100.00	27.2	1	32
Hydel	Shadiwal Hydel Power	13	99.80	42	12	87
Hydel	Suki Kinari	869	100.00	74.6	1,404	15,030
Hydel	Tarbela	3,474	98.40	51.2	3,886	6,439
Hydel	Tarbela 4th Extension	1,407	94.30	45.4	1,395	6,347
Hydel	Warsak Hydel Power	242	64.90	51.8	274	779

RLNG

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
RLNG	Balloki	1,169	73.50	53.00	1,882.40	4,641
RLNG	Bhikki	1,130	99.80	67.70	1,669.01	6,640
RLNG	Fauji Kabirwala Power	151	99.70	9.90	32.50	766
RLNG	Halmore Power Generation	202	96.40	24.80	109.62	1,395
RLNG	Haveli Bahadur Shah	1,180	98.40	81.30	2,096.01	5,007
RLNG	Nandipur	450	93.60	35.30	348.03	3,342
RLNG	Orient Power Company	206	99.10	36.00	161.87	1,300
RLNG	Punjab Thermal Power	1,244	99.40	21.10	572.66	3,801
RLNG	Saif Power	201	100.00	21.90	97.66	934
RLNG	Sapphire Electric Company	204	99.90	22.20	99.13	885

Gas

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Gas	Engro Powergen Qadirpur	213	69.50	32.40	150.93	794
Gas	Foundation Power Company Daharki	166	96.30	82.60	299.36	965
Gas	Guddu 747	721	45.70	36.20	570.28	-
Gas	Liberty Daharki Power	223	26.20	20.90	101.84	499
Gas	Uch Power	548	97.90	85.90	1,028.53	1,884
Gas	Uch-II Power	356	84.60	69.80	542.87	2,438

RFO

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
RFO	Attock Gen.	156	99.90	13.30	45.21	719
RFO	Kohinoor Energy	124	100.00	12.10	32.88	365
RFO	Liberty Power Tech	196	99.40	8.60	36.63	947
RFO	Narowal Energy	214	97.60	3.30	15.50	1,347
RFO	Nishat Chunian Power	196	100.00	8.50	36.45	997
RFO	Nishat Power	195	100.00	8.30	35.26	974
RFO	TPS Jamshoro	649	-	-	-	-
RFO	TPS M/Garh	1,084	65.60	-	-	-

Wind

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Wind	ACT Wind	30	98.30	31.40	20.56	617
Wind	ACT2 DIN Wind	50	98.90	43.00	46.96	698
Wind	Artistic Energy	49	99.80	47.70	51.01	1,089
Wind	Artistic Wind Power	50	99.90	41.90	45.78	681
Wind	DIN Energy*	50	98.90	36.30	39.59	601
Wind	FFC Energy Limited*	50	95.90	25.60	27.90	796
Wind	Foundation Wind Energy-I	50	99.60	31.40	34.34	1,241
Wind	Foundation Wind Energy-II	50	99.60	33.70	36.77	1,230
Wind	Gul Ahmed Electric	50	99.50	45.50	49.73	735
Wind	Gul Ahmed Wind Power	50	99.90	29.90	32.63	1,454
Wind	Hawa Energy	50	99.80	35.20	38.47	1,526
Wind	Hydrochina Dawood Power	50	99.80	30.40	33.18	1,693
Wind	Indus Wind Energy	50	100.00	46.80	51.07	764
Wind	Jhimpir Power	50	99.80	37.70	41.16	1,626
Wind	Lakeside Energy Limited	50	98.60	44.10	48.12	712
Wind	Liberty Wind Power-I	50	97.80	36.80	-	607
Wind	Liberty Wind Power-II	50	98.20	38.60	42.15	636
Wind	Lucky Renewables*	50	100.00	38.40	41.89	658
Wind	Master Green Energy	50	95.60	37.00	40.43	626
Wind	Master Wind Energy	50	98.70	30.30	33.12	1,477
Wind	Metro Power Company	50	100.00	31.70	34.57	1,356
Wind	Metro Wind Power	60	95.30	47.90	62.79	1,119
Wind	NASDA Green Energy	50	99.10	42.60	62.37	690
Wind	Sachal Energy Development	50	99.10	26.80	29.22	1,981
Wind	Sapphire Wind Power Company Limited	53	95.20	27.20	31.52	1,618
Wind	Tenaga Generasi	50	99.60	30.50	33.34	1,577
Wind	Three Gorges First Wind Farm Pakistan	50	99.70	28.20	30.83	612
Wind	Three Gorges Second Wind Farm Pakistan	50	99.80	28.70	31.36	1,296
Wind	Three Gorges Third Wind Farm Pakistan	50	99.80	29.30	32.05	1,268
Wind	Tricon Boston-A	50	98.80	43.40	47.42	1,919
Wind	Tricon Boston-B	50	98.90	40.90	45.18	1,834
Wind	Tricon Boston-C	50	98.30	40.10	43.31	1,761
Wind	UEP Wind Power	99	99.80	26.40	56.99	2,958
Wind	Yunus Energy	50	99.90	29.60	32.27	1,231
Wind	Zephyr Power*	50	99.60	40.30	43.97	1,524
Wind	Zorlu Enerji Pakistan	56	82.70	29.90	36.61	1,087

Solar

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Solar	AJ Power	12	100.00	19.60	5.13	149
Solar	Appolo Solar Development Pakistan	100	100.00	20.50	44.84	1,908
Solar	Atlas Solar	100	100.00	27.60	60.31	672
Solar	Best Green Energy Pakistan	100	100.00	20.30	44.23	2,115
Solar	Crest Energy Pakistan	100	99.80	20.60	45.07	2,176
Solar	Harappa Solar	18	100.00	24.30	9.57	290
Solar	Helios Power	50	98.90	26.10	28.55	325
Solar	HNDS Energy	50	98.90	25.90	28.27	323
Solar	Meridian Energy	50	98.90	26.20	28.66	325
Solar	Quaid E Azam Solar	100	54.50	19.70	43.03	1,276

Bagasse

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Bagasse	Hamza Sugar Mills	15	-	-	-	-
Bagasse	Chanar Energy	22	1.70	1.00	-	-
Bagasse	Thal Industries Corporation	22	1.10	-	-	-
Bagasse	Almoiz Industries	21	55.60	18.90	8.68	64
Bagasse	RYK Mills	40	-	-	-	-
Bagasse	Chiniot Power	63	1.10	-	-	-
Bagasse	JDW-III	24	92.40	92.00	48.23	58
Bagasse	JDW-II	24	91.30	91.80	48.11	70

KE

Type	Plant	Net Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)
KE	BQPS-I	379	66.00	28.3	234
KE	BQPS-II	526	100.00	38.3	440
KE	BQPS-III	918	98.00	73.4	1,473
KE	KCCPP	227	94.50	1.6	8
KE	KGTPS	96	100.00	-	-
KE	SGTPS	96	100.00	-	-
KE	FPCL	52	62.20	63.8	73
KE	Sindh Nooriabad-I	51	67.80	51.9	58
KE	Sindh Nooriabad-II	51	86.10	60	67
KE	International Steels	17	40.60	0.8	0
KE	Lucky Cement	5	99.90	12.1	1

Key Technical and Financial Parameters of Power Plants Across Different Technologies – January to March 2025

Nuclear

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 3rd Qtr 2024-25	Capacity Cost (Rs. Mln)
C1	301	100	100	650	6.3321	100
C2	315	100	104	674	6.8259	5,594
C3	315	100	99	675	16.7287	11,703
C4	315	100	99	674	16.6454	11,639
K2	1040	99	93	2,044	10.4046	23,012
K3	1040	80	69	1,522	11.1084	24,485

Coal

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
China Power Hub Coal	1249	100	10	265	31,639
Port Qasim	1243	100	2	47	27,612
Sahiwal Coal	1244	100	36	964	26,127
Thal Nova	301	97	62	404	7,671
Thar Coal Block-1	1214	96	84	2,205	20,876
Engro Power Thar	601	78	59	762	14,699
Thar Energy	301	78	52	334	7,646
Lucky Electric Power	607	67	0	0	11,257

Hydel

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Ranolia	34	135.60	0.00	0	1,610
Chitral Hydel Power	1	100.00	29.60	1	0
Gulpur	101	100.00	9.60	21	0
Karot	713	100.00	20.60	316	97
Patrind	147	100.00	0.00	0	60
Duber Khwar Hydel Power	130	99.80	12.60	35	711
Daral Khwar Hydropower	37	98.70	20.10	16	9,387
Golen Gol	108	97.40	3.30	8	1,350
Jagran	30	95.30	8.50	6	7,540
New Bong Escape	84	92.70	38.70	70	33
Tarbela	3474	87.10	15.30	1,150	534
Suki Kinari	862	83.30	9.00	167	0
Nandipur Hydel Power	14	83.20	10.50	3	90
Shadiwal Hydel Power	13	79.00	27.80	8	3,596
Tarbela 4th Extension	1407	78.00	5.90	178	126
Chashma Hydel Power	160	76.90	47.50	164	1,931
Renala	1	76.30	11.40	0	1,130
Ghazi Barotha	1447	75.20	32.30	1,010	0
Mangla Power	997	74.40	26.50	570	984
Chichoki	13	74.00	11.30	3	6,196
Jabban Hydel Power	22	70.20	57.60	27	2,670
Allai Khwar	121	68.10	15.70	41	12,999
Kurram Garhi	4	65.60	33.60	3	4,915
Dargai	20	55.40	19.20	8	826
Malakand-III	81	53.10	13.30	23	73
Khan Khwar Hydel Power	72	52.80	21.50	33	117
Warsak Hydel Power	242	39.50	21.40	112	1,056
Rasul Hydel Power	22	37.20	9.00	4	0
Jinnah Hydel Power	72	28.50	14.40	22	180
Gomal Zam	9	1.10	0.80	0	270
NJHPC	969	0.00	0.00	0	45

RLNG

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Sapphire Electric	212	100	7	31	735
Orient Power	213	100	19	86	906
Saif Power	210	99	5	22	722
Nandipur Power Plant	525	98	1	16	3,274
Bhikki	1117	95	70	1,676	6,871
FKPCL	151	89	0	0	766
Halmore Power	209	83	14	65	1,140
Punjab Thermal	1244	45	12	316	1,042
Haveli Bahadur Shah	1180	44	34	875	5,590
Balloki	1169	38	35	894	5,422
Rousch Power	0	0	0	0	0

Gas

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Engro Powergen Qadirpur	213	100	46	212	691
Uch-II Power	356	100	65	499	4,842
Uch	548	96	88	1,045	1,884
Foundation Power	169	83	68	247	726
TNB Liberty	221	67	30	142	930
Guddu 747	720	58	40	619	3,034

RFO

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Attock Gen.	156	100	7	23	801
Kohinoor Energy	124	100	7	18	450
Liberty Power	196	100	4	18	923
Nishat Chunian	196	100	3	12	805
Nishat Power	195	100	5	21	822
Hubco Narowal	214	98	3	13	1,158
TPS Muzaffargarh	0	67	0	0	0
TPS Jamshoro	312	42	0	0	273
PakGen	350	34	1	6	710
Atlas Power	0	0	0	0	0
Lal Pir	0	0	0	0	0
Hub					0
Saba Power					0

Wind

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 3rd Qtr 2024-25 (Rs. / kWh)	Capacity Cost (Rs. Mln)	NPMV GWh	NPV Rs. M
Hawa Energy	50.00	100	17	18.33	36.05	769.00	3	106.00
3 Gorges 1st Wind	50.00	100	12	13.08	17.04	334.00	1	22.00
3 Gorges 2nd Wind	50.00	100	13	14.17	36.88	571.00	3	100.00
3 Gorges 3rd Wind	50.00	100	14	15.24	36.88	607.00	3	103.00
Gul Ahmed Electric	50.00	100	20	21.57	13.72	340.00	3	44.00
Gul Ahmed Wind	50.00	100	16	16.69	40.61	783.00	3	104.00
Lucky Renewables	50.00	100	15	16.22	14.36	233.00	3	37.00
Metro Power	60.00	100	16	20.83	34.07	629.00	1	24.00
Yunus Energy	50.00	100	15	15.82	34.65	642.00	3	95.00
Artistic Wind	50.00	100	16	17.52	13.67	247.00	3	37.00
UEP Wind	99.00	100	12	24.76	47.09	1,350.00	4	183.00
ACT Wind	30.00	100	12	7.47	28.93	218.00	0	4.00
Foundation Wind-2	50.00	100	17	17.80	21.41	388.00	0	6.00
Foundation Wind-1	50.00	100	13	14.19	29.97	549.00	0	73.00
Jhimpir Power	50.00	100	16	17.09	36.05	724.00	3	106.00
Sachal Wind	50.00	100	13	13.97	41.76	715.00	2	31.00
Hydrochina Dawood	50.00	99	13	13.67	46.90	669.00	2	74.00
Tenaga Generasi	50.00	99	14	14.79	43.52	458.00	1	30.00
DIN Energy	50.00	99	17	18.78	13.83	307.00	3	47.00
Tricon Boston-B	50.00	99	17	18.54	36.91	0.00	3	103.00
Tricon Boston-C	50.00	99	18	19.41	36.91	0.00	3	108.00
Zephyr Wind	50.00	99	18	19.54	31.95	701.00	2	76.00
ACT2 Wind	50.00	99	16	17.37	13.67	256.00	3	38.00
Liberty-I	50.00	99	16	17.50	13.89	251.00	3	47.00
Artistic Energy	49.00	98	23	24.66	20.28	533.00	1	12.00
Lakeside Energy	50.00	98	18	19.81	13.68	315.00	3	45.00
Tricon Boston-A	50.00	98	18	18.96	36.91	797.00	3	98.00
NASDA Green	50.00	98	18	18.91	13.71	303.00	3	45.00
Master Wind	53.00	97	11	12.55	40.61	581.00	2	92.00
Indus Wind	50.00	97	20	21.65	13.86	348.00	4	49.00
Sapphire Wind	53.00	96	12	13.62	45.47	729.00	2	110.00
Liberty-II	50.00	96	16	17.05	13.89	244.00	3	44.00
Metro Wind	60.00	96	18	23.33	16.55	469.00	4	64.00
Master Green Energy	50.00	95	14	15.47	13.87	234.00	3	43.00
FFCEL Wind	50.00	93	12	12.96	13.22	245.00	1	7.00
Zorlu Energy	56.00	84	13	15.46	19.23	366.00	1	12.00

Solar

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	NPMV GWh	NPMV Mln	Adjusted Tariff for 3rd Qtr 2024-25
AJ Power Plant	12	100.00	17.30	4	0.10	0.68	11.13
Appolo Solar	100	100.00	19.40	42	0.00	0.00	29.62
Atlas Solar	100	100.00	20.90	45	0.00	0.00	47.70
Best Green Energy	100	99.90	19.40	42	0.00	0.00	45.79
Crest Energy	100	98.80	19.70	43	0.00	0.00	48.22
Harappa	18	100.00	18.10	7	0.10	0.69	11.13
Helios Power	50	99.70	20.60	22	0.10	2.21	29.22
HNDS	50	99.70	20.70	22	0.16	2.17	12.52
Meridian	50	99.70	20.90	23	0.10	0.70	11.13
Quaid-e-Azam Solar	100	45.70	18.70	40	0.00	0.08	28.96

Bagasse

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)
JDW-II	24	100.00	88.20
JDW-III	24	100.00	89.50
RYKML	21	83.00	74.60
Chiniot Power	63	73.80	40.80
Thal Industries	22	72.80	6.60
Al-Moiz Industries	21	70.60	19.90
Hamza Sugar Mills	14	10.50	9.80
Chanar	22	0.00	0.00

Oct to Dec, 2024

Wind

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul-Sep 24 (Rs. / kWh)	Capacity Cost (Rs. Mln)	NPMV GWh	NPMV Rs. Mln
3 Gorges 2nd Wind	50.00	100	37	12.19	36.90	453.00	3	114.50
3 Gorges 3rd Wind	50.00	100	37	12.89	37.00	476.00	3	117.24
Artistic Energy	50.00	100	21	23.12	20.54	497.00	0	8.25
Gul Ahmad Electric	50.00	100	14	18.31	13.80	253.00	4	48.30
Hawa Energy	50.00	100	36	17.41	36.26	631.00	3	124.05
Hydro China Dawood	50.00	100	47	18.94	47.15	490.00	2	107.78
Jhimpir Power	50.00	100	36	15.64	36.26	567.00	3	120.07
Tenega Generasi	50.00	100	44	11.06	43.91	486.00	2	97.20
Yunus Energy	50.00	100	35	12.07	35.45	428.00	3	102.74
Zephyr Power	50.00	100	33	9.81	32.71	321.00	0	8.56
Indus Wind	50.00	100	14	18.28	14.04	256.00	4	49.28
Foundation Wind-II	50.00	100	21	14.46	21.33	318.00	0	5.65
3 Gorges 1st Wind	50.00	100	17	12.92	16.96	221.00	0	0.46
Artistic Wind	50.00	100	14	17.17	13.85	238.00	4	48.89
UEP Wind	99.00	100	47	20.86	47.15	983.00	5	227.83
Foundation Wind-I	50.00	100	40	11.19	40.42	477.00	0	0.00
Gul Ahmed Wind	50.00	100	41	12.22	41.17	503.00	3	119.15
Lucky Renewables	50.00	100	14	17.16	14.44	248.00	3	50.03
Metro Power	50.00	100	35	17.95	35.22	424.00	0	1.14
Liberty Wind-I	50.00	99	14	16.04	13.98	225.00	4	49.58
ACT Wind	30.00	99	30	10.46	29.85	245.00	3	3.12
NASDA Green	50.00	99	14	20.72	13.79	242.00	4	50.43
Sachal Energy	50.00	99	44	15.11	43.83	564.00	0	0.00
Tricon Boston - B	50.00	99	37	15.26	37.00	567.00	3	112.32
Liberty Wind-II	50.00	99	14	15.79	13.98	221.00	3	46.07
DIN Energy	50.00	99	14	17.69	14.01	247.00	4	51.34
Master Green	50.00	99	14	15.70	13.98	223.00	4	50.60
Tricon Boston - C	50.00	99	37	15.81	37.00	587.00	3	118.25
ACT 2 DIN	50.00	99	14	16.66	13.85	231.00	3	45.36
Tricon Boston - A	50.00	99	37	15.14	37.14	562.00	3	106.34
Lakeside Energy	50.00	98	14	17.04	13.76	235.00	4	50.29
Metro Wind	60.00	98	17	24.96	16.73	418.00	4	70.30
Master Wind	50.00	98	41	11.18	41.17	460.00	3	115.07
Sapphire Wind	50.00	95	46	10.20	45.64	466.00	3	132.91
FFC Energy	50.00	95	13	11.33	13.14	148.00	0	0.56
Zorlu Enerji	56.00	83	19	14.22	19.14	223.00	0	0.86

Hydel

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Karot	720	100.00	14.91	237	6,600
Malakand-III	81	99.90	18.10	32	139
Shadiwal	14	99.90	36.08	11	114
Patrind	147	99.70	19.36	63	1,597
Daral Khwar	37	99.20	19.37	16	0
Renala	1	98.10	17.39	0	33
New Bong Escape	84	98.00	69.57	129	1,430
Chitral	1	97.90	22.49	0	45
SK Hydro (Pvt.) Ltd.	883	97.00	14.53	283	7,248
Jagran-I	30	96.60	19.67	13	0
Nandipur	14	94.90	16.14	5	124
Allai Khwar	121	93.70	15.40	41	890
Chichoki	13	93.20	14.68	4	96
Tarbela	3478	89.50	28.32	2175	12,762
Jabban	22	88.50	63.61	31	227
Dargai	20	87.60	35.44	16	160
Ghazi Barotha	1450	87.60	55.58	1779	7,546
Tarbela 4th Extension	1410	85.10	26.83	835	8,838
Khan Khwar	72	83.80	12.46	20	742
Kurram Garhi	4	83.50	55.65	5	67
Gulpur	100	82.90	3.13	7	1,932
Mangla	1000	81.70	71.93	1588	5,640
Chashma	184	81.40	66.21	269	1,528
Golen Gol	108	72.40	12.71	30	2,716
Duber Khwar	130	68.20	7.61	22	1,384
Warsak	243	57.10	26.88	144	1,208
Rasul	22	43.30	21.26	10	141
Gomal Zam	17	41.40	30.89	12	144
Jinnah Hydel	36	35.40	59.12	47	604
Neelum Jhelum	969	0.00			0
Ranolia	17	0.00			0
Pehur					0

RLNG

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 2nd Qtr 2024-25	Capacity Cost (Rs. Mln)
Trimmu	1243	101	8	207	0.00	1,819
CCPP Nandipur	500	100	3	28	2.41	2,393
Bhikki	1163	100	43	1,098	2.91	7,785
Balloki	1165	100	61	1,569	2.84	7,118
FKPCL	151	84	0	0	0.00	761
Halmore	200	82	3	12	2.54	754
Rousch Power	395	82	0	0	0.00	2,841
HBS	1172	81	61	1,569	3.01	6,901
Saif Power	204	79	3	15	1.92	810
Sapphire Electric	202	79	0	0	1.93	789
Orient Power	203	75	5	24	2.36	773

RFO

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 2nd Qtr 2024-25	Capacity Cost (Rs. Mln)
Kohinoor Energy	124	100	0	1	0.00	614
Liberty Power Tech	196	99	0	0	2.17	945
Nishat Chunian	196	99	0	0	1.96	762
Attock Gen	156	99	0	1	2.08	662
Hubco Narowal	214	99	0	0	2.53	877
Nishat Power	195	96	0	2	1.93	795
PakGen	350	67	0	0	0.00	2,183
Saba Power	125	19	0	0	0.00	0
Atlas Power	214	16	0	0	0.00	0
HUBCO	1200	9	0	0	0.00	0
Lalpir	350	4	0	0	0.00	0

Gas

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 2nd Qtr 2024-25	Capacity Cost (Rs. Mln)
Uch-II Power	372	100	74	606	6.63	5,701
Foundation Power	168	95	75	278	6.63	614
Engro Powergen Qadirpur	212	92	42	198	1.67	463
TNB Liberty Power	212	92	53	247	1.83	1,153
Uch Power	547	77	66	799	2.20	1,881
Guddu 747	721	37	32	513	1.94	0

Thar Coal

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 2nd Qtr 2024-25	Capacity Cost (Rs. Mln)
Engro Thar	603	100	76	1,010	11.34	15,120
Thar Energy	300	100	56	368	11.83	9,102
Thal Nova	303	72	55	371	11.72	9,141
TCB-1	1230	68	50	1,348	11.65	15,060

Imported Coal

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 2nd Qtr 2024-25	Capacity Cost (Rs. Mln)
CPHGC	1249	100	5	133	11.77	32,150
Port Qasim	1243	100	26	726	10.15	28,579
Lucky Electric	605	100	17	230	9.42	11,206
Sahiwal Coal	1244	71	14	374	9.96	27,354

Nuclear

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff 2nd Qtr 2024-25
C1	301	100	99	660	6.13
C2	315	100	95	664	-
C3	315	62	54	372	-
C4	315	100	96	666	16.55
K2	1040	99	88	2,031	10.52
K3	1040	44	33	757	11.2

Solar

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	NPMV GWh	NPMV Mln	Adjusted Tariff for 2nd Qtr 2024-25
AJ Power	12	100.00	10.26	3	2.63	0.08	29.02
Appolo Solar	96	100.00	12.23	26	0.00	0.00	45.79
Atlas Solar	100	100.00	11.59	26	159.72	2.17	13.27
Best Green	96	100.00	12.21	26	0.00	0.00	47.92
Crest Energy	96	100.00	12.36	26	0.00	0.00	48.34
Harappa	18	100.00	10.00	4	103.49	2.21	29.28
Helios	50	101.10	0.00	0	98.90	0.68	11.20
HNDS	50	100.00	0.00	0	101.23	0.70	0.00
Meridian	50	100.00	0.00	0	100.44	0.69	0.00
Quaid-e-Azam Solar	96	43.80	11.57	25	0.00	0.00	30.02

Bagasse

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)
Hamza Sugar	15	97.80	0.00
JDW-III	24	92.60	74.03
JDW-II	24	90.50	90.57
Chiniot Power	63	61.60	22.33
Thal Industries	20	41.10	0.00
Al-Moiz Industries	36	40.90	0.00
Fatima Energy	108	39.00	0.00
RYK Mills	24	37.00	17.25
Chanar Energy	22	8.60	0.00

Key Technical and Financial Parameters of Power Plants Across Different Technologies – July to Sep, 2024

Wind

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul-Sep 24 (Rs. / kWh)	Capacity Cost (Rs. Mln)	NPMV GWh	NPMV Rs. Mln
Tenega Generasi	50.00	104	27	29.98	44.77	1,560.40	5	218.20
3 Gorges 1st Wind	50.00	100	26	28.82	16.92	989.32	4	70.13
3 Gorges 2nd Wind	50.00	100	24	25.91	37.63	1,161.94	5	186.93
3 Gorges 3rd Wind	50.00	100	24	26.88	37.63	1,175.19	5	189.87
Artistic Energy	50.00	100	43	47.00	20.91	1,144.15	3	62.15
Gul Ahmed Wind	50.00	100	22	24.50	42.16	1,304.96	5	195.90
Jhimpir Power	50.00	100	30	33.29	36.95	1,438.14	6	209.11
Lucky Renewables	50.00	100	35	38.70	14.75	739.31	7	99.50
Metro Power	50.00	100	29	32.02	35.22	1,955.42	4	143.70
Yunus Energy	50.00	100	22	24.57	36.58	1,170.93	5	179.61
Gul Ahmad Electric	50.00	100	36	39.93	14.09	577.31	7	93.48
Hawa Energy	50.00	100	29	31.79	36.95	1,382.43	6	208.88
NASDA Green	50.00	100	36	39.39	14.08	646.14	7	92.72
ACT 2 DIN	50.00	100	36	40.15	14.14	662.13	7	94.93
Foundation Wind-I	50.00	100	30	33.54	40.43	2,587.62	4	161.23
Foundation Wind-II	50.00	100	33	36.42	30.35	1,991.09	4	120.30
Indus Wind	50.00	100	37	40.96	14.34	681.23	7	94.10
Artistic Wind	50.00	99	34	37.72	14.14	617.35	7	93.12
Liberty Wind-I	50.00	99	32	35.19	14.27	595.44	7	93.20
Tricon Boston - B	50.00	99	33	35.97	37.90	0.00	6	209.88
Tricon Boston - C	50.00	99	32	35.32	37.90	0.00	6	211.91
DIN Energy	50.00	99	32	35.36	14.31	597.92	6	92.88
Sachal Energy	50.00	99	27	29.46	43.81	2,321.22	0	0.00
Sapphire Wind	50.00	99	21	23.58	46.22	1,320.66	5	224.00
Tricon Boston - A	50.00	99	34	37.98	37.90	4,715.96	5	190.37
UEP Wind	99.00	99	23	50.43	47.95	2,855.11	9	437.32
Liberty Wind-II	50.00	99	33	36.43	14.27	612.39	6	92.15
Master Green	50.00	99	33	36.48	14.27	627.10	7	97.75
Master Wind	50.00	99	52	57.50	42.16	1,278.28	5	204.22
Hydro China Dawood	50.00	99	26	28.96	47.95	1,497.68	4	194.86
Lakeside Energy	50.00	99	35	38.63	14.06	623.97	6	81.92
Zephyr Power	50.00	99	40	43.78	33.89	1,790.24	5	156.92
Metro Wind	60.00	98	43	57.50	17.32	1,130.74	8	134.61
ACT Wind	30.00	98	30	19.97	31.08	690.52	1	45.82
FFC Energy	50.00	97	22	24.21	13.07	619.72	3	39.25
Zorlu Enerji	56.00	82	26	32.39	19.11	3,614.69	3	57.90

Hydel

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
Allai Khwar	121	99.70	46.40	124	665
Chashma	184	85.80	60.70	246	920
Chichoki	13	97.10	32.70	9	65
Chitral	1	95.70	21.40	0	32
Daral Khwar	37	99.50	65.40	53	0
Dargai	20	97.80	46.10	20	96
Duber Khwar	130	99.50	80.10	230	1,057
Ghazi Barotha	1450	97.90	68.00	2178	3,694
Golen Gol	108	98.40	22.60	54	1,983
Gomal Zam	17	11.10	7.90	3	106
Gulpur	100	100.00	41.80	92	0
Jabban	22	98.20	84.10	41	171
Jagran-I	30	90.30	71.60	47	0
Jinnah Hydel	36	37.00	34.20	27	430
Karot	720	100.00	55.90	889	0
Khan Khwar	72	99.60	38.90	62	548
Kurram Garhi	4	95.00	59.60	5	45
Malakand-III	81	99.50	39.80	71	0
Mangla	1000	78.80	45.90	1014	3,246
Nandipur	14	98.00	42.50	13	83
Neelum Jhelum	969	0.00	0.00	0	0
New Bong Escape	84	100.00	32.10	59	0
Patrind	147	92.10	63.30	205	0
Pehur	18	98.60	35.20	14	0
Ranolia	17	0.00	0.00	0	0
Rasul	22	95.40	31.40	15	93
Renala	1	98.20	25.40	1	23
Shadiwal	14	100.50	30.40	9	69
SK Hydro (Pvt.) Ltd.	883	100.00	29.40	106	0
Tarbela	3478	98.40	89.70	6891	5,760
Tarbela 4th Extension	1410	97.60	88.20	2745	5,334
Warsak	243	63.50	49.70	266	701

RLNG

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul-Sep 24 (Rs./kWh)	Capacity Cost (Rs. Mln)
Bhikki	1,163	100	64	1,654	3.06	-7,356
Rousch Power	395	100	7	62	0.00	2,841
Saif Power	204	100	22	100	1.86	1,211
CCPP Nandipur	500	100	44	488	2.40	2,328
FKPCL	151	100	11	36	0.00	760
Orient Power	203	99	42	187	2.29	1,179
Sapphire Electric	202	99	31	138	1.87	1,659
Balloki	1,165	98	65	1,663	2.80	7,163
HBS	1,172	94	76	1,976	2.86	7,154
Halmore	200	90	40	178	2.47	1,167
Trimmu	1,243	78	24	661	3.46	3,947

RFO

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul-Sep 24 (Rs./kWh)	Capacity Cost (Rs. Mln)
Atlas Power	214	100	3	15	2.10	1,113
Attock Gen	156	100	7	23	2.07	949
Hubco Narowal	214	100	2	9	2.61	1,298
Kohinoor Energy	124	100	8	23	0.00	614
Lalpir	350	100	0	0	0.00	2,672
PakGen	350	100	0	2	0.00	2,548
Saba Power	125	100	0	0	0.00	820
Liberty Power Tech	196	100	6	24	2.22	1,261
Nishat Chunian	196	100	2	8	2.00	972
Nishat Power	195	99	7	28	1.98	935
HUBCO	1,200	94	1	15	0.00	7,937

Gas

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul-Sep 24 (Rs./kWh)	Capacity Cost (Rs. Mln)
Engro Powergen Qadirpur	212	100	45	213	1.66	1,095
Uch Power	547	99	84	1,013		1,954
Uch-II Power	372	99	71	585		5,545
TNB Liberty Power	212	98	70	327		1,254
Foundation Power	168	97	80	296	2.20	1,002
Guddu 747	721	57	41	654	4.30	5,700

Thar Coal

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul-Sep 24 (Rs./kWh)	Capacity Cost (Rs. Mln)
Thal Nova	303	99	80	533	12.11	8,339
Engro Thar	603	88	73	975	11.56	15,664
TCB-1	1,230	88	80	2,159	12.00	32,507
Thar Energy	300	76	61	405	12.16	15,618

Imported Coal

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul-Sep 24 (Rs./kWh)	Capacity Cost (Rs. Mln)
CPHGC	1,249	100	44	1,207	11.73	30,455
Port Qasim	1,243	100	41	1,133	10.49	43,163
Sahiwal Coal	1,244	100	44	1,207	10.13	27,684
Lucky Electric	605	98	36	486	10.13	13,504

Nuclear

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Capacity Cost (Rs. Mln)
C1	301	100	98	649	5,073
C3	315	100	94	655	11,709
K2	1,040	96	88	2,023	-6,517
C4	315	85	82	570	11,645
K3	1,040	72	70	1,617	72,428
C2	315	40	37	260	4,845

Solar

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)	Adjusted Tariff Jul - Sep 24 (Rs./kWh)	Capacity Cost (Rs. Mln)
Atlas Solar	100	100	23	50	14.24	864
Best Green	96	100	20	42	48.62	1962
Crest Energy	96	100	20	43	48.99	1988
Gharo Solar	50	100	19	21	17.42	0
Harappa	18	100	22	9	29.57	256
AJ Power	12	100	18	5	29.30	138
Oursun	50	100	18	19	32.57	0
Helios	50	100	25	27	0.00	190
HNDS	50	54	25	27	0.00	192
Meridian	50	54	25	27	0.00	188
Appolo Solar	96	53	20	43	46.22	1974
Quaid-e-Azam Solar	96	53	19	40	30.73	1496

Bagasse

Power Plant	Capacity (MW)	Availability Factor (%)	Utilization Factor (%)	Generation (GWh)
Fatima Energy	108	98.40	41.60	100
JDW-II	24	98.40	99.40	53
JDW-III	24	82.40	81.30	43
Chiniot Power	63	50.20	22.10	31
RYK Mills	24	31.30	17.30	9
Al-Moiz Industries	36	0.00	0.00	0
Chanar Energy	22	0.00	0.00	0
Hamza Sugar	15	0.00	0.00	0
Thal Industries	20	0.00	0.00	0

TABLE-1: ASSESSMENT OF POWER PLANTS PERFORMANCE (2024-2025)–THERMAL (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Liberty Power	RFO	202	196	77839	486	8239	17	17	99.6	4.5	81.7
2	PakGen	RFO	365	350	7,748	43	4,829	720	0	87.0	0.4	51.5
3	Lal Pir	RFO	362	350	0	0	2208	0	0	100.0	0.0	-
4	Atlas Power	RFO	224	214	15219	85	2123	0	0	100.0	3.2	83.7
5	Nishat Power	RFO	202	195	86665	470	8184	36	70	98.8	5.1	94.6
6	Nishat Chunian	RFO	202	196	57211	328	8400	4	28	99.6	3.3	-
7	Saba Power	RFO	136	125	0	0	2208	0	0	100.0	0.0	-
8	HUBCO Narowal	RFO	214	214	37928	202	8432	31	96	98.6	2.0	87.7
9	Attock Gen.	RFO	165	156	92424	640	8085	29	6	99.6	6.8	92.6
10	Hub	RFO	1,292	1,200	15051	126	1939	143	0	93.5	0.6	10.0
11	Kot Addu	RFO	550	478	52710	126	430	0	0	100.0	23.0	87.5
12	Kohinoor Energy	RFO	131	124	76156	916	7844	0	0	100.0	7.0	67.0
13	Bhikki	RLNG	1,231	1,130	6098150	7392	1254	0	115	98.7	61.6	73.0
14	Balloki	RLNG	1,276	1,169	5479914	5521	1271	1202	766	77.5	53.5	84.9
15	Haveli Bahadur Shah	RLNG	1,277	1,180	6515649	6556	382	876	946	79.2	63.0	84.2
16	Sapphire Electric	RLNG	235	204	268929	1937	6341	456	26	94.5	15.0	68.1
17	Rousch Power	RLNG	450	395	62,518	325	3,683	408	91	91.0	3.6	48.7
18	FKPCL	RLNG	170	151	68961	628	7523	600	9	93.0	5.2	72.7
19	Orient Power	RLNG	225	206	459125	3061	5094	534	72	93.1	25.4	72.8
20	Saif Power	RLNG	225	204	234411	1882	6398	456	0	94.5	13.1	61.1
21	Halmore Power	RLNG	225	202	364550	2561	5148	528	355	88.0	20.6	-
22	Nandipur Power Plant	RLNG	567	450	949537	2752	5833	0	151	98.0	24.1	76.7
23	Punjab Thermal	RLNG	1,263	1,244	1757267	4209	2878	312	1385	80.9	16.1	33.6
24	Foundation Power	N.Gas	179	166	1122635	8105	10	391	254	92.6	77.2	-
25	TNB Liberty	N.Gas	235	223	817722	4776	1421	1416	1147	70.7	41.9	76.8
26	Uch	N.Gas	586	548	3885777	7747	349	470	195	92.4	80.9	91.5
27	Uch-II Power	N.Gas	404	356	2233471	7062	1317	335	45	95.7	71.6	88.8
28	Engro Powergen Qadirpur	N.Gas	227	213	774309	7843	73	658	187	90.4	41.5	46.4
29	Guddu 747	N.Gas	747	721	2355880	3425	358	184	3713	43.2	37.3	95.4
30	TPS Muzaffargarh	RFO/RLNG	1,350	1,084	0	0	5816	0	2908	66.4	0.0	-
31	TPS Jamshoro	RFO/RLNG	880	649	0	0	4038	342	4380	46.1	0.0	-
32	Engro Power Thar	Coal	660	601	3852910	7678	349	707	2	91.6	73.2	83.5
33	Port Qasim	Coal	1,320	1,243	2751198	3284	5464	0	12	99.9	25.3	67.4
34	Sahiwal Coal	Coal	1,320	1,244	4255189	4525	3276	632	327	89.1	39.0	75.6
35	China Power Hub Coal	Coal	1,320	1,249	671653	828	7695	0	236	97.3	6.1	64.9
36	Lucky Electric Power	Coal	660	607	1018760	2467	5506	720	67	91.0	19.2	68.0
37	Thal Nova	Coal	330	301	1778361	7893	103	620	96	91.3	67.4	74.9
38	Thar Energy	Coal	330	301	1601317	6953	749	467	592	87.9	60.7	76.5
39	Thar Coal Block-1	Coal	1,320	1,231	8315013	7522	132	669	401	87.4	77.1	89.8
40	Jamshoro	Coal	-	-	368280	-	-	-	-	-	-	-
	Sub-Total	**-**	**23057**	**21070**	**58580437**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE-2: ASSESSMENT OF POWER PLANTS PERFORMANCE (2024-2025) – THERMAL (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	BQPS-I	RFO/RLNG	840	730	386,126	1,146	5,580	663	362	76.8	6.0	46.2
2	BQPS-II	RLNG	572	526	1,580,544	4,804	3,956	0	0	100.0	34.3	62.5
3	BQPS-III	RLNG	942	918	4,329,650	6,580	1,184	867	129	88.6	53.8	71.7
4	KCCPP	Gas/RLNG	248	227	131,859	1,573	6,973	134	66	97.6*	6.6	36.9
5	KGTPS	Gas/RLNG	107	96	4,264	77	8,675	7	1	99.9*	0.5	57.7
6	SGTPS	Gas/RLNG	107	96	0	0	8,736	0	24	99.7*	0.0	0.0
7	Gul Ahmed Energy	RFO	136	128	73,267	616	2,119	224	41	31.2	7.8	92.9
8	FPCL	Coal	52	52	278,991	5,197	0	1,367	2,196	59.3	61.2	103.2
9	Sindh Nooriabad-I	Gas	52	51	250,202	5,023	2,063	1,490	185	80.9	56.0	97.7
10	Sindh Nooriabad-II	Gas	52	51	268,000	5,344	2,501	695	220	89.6	60.0	98.3
11	International Steels	RLNG	19	17	10,457	3,854	328	3,953	553	47.7	7.0	16.0
12	Lucky Cement	RLNG	5	5	3,956	8,739	0	8	13	99.8	9.0	9.1
Sub-Total			**3132**	**2897**	**7,317,317**	-	-	-	-	-	-	-
	Grand Total (NTDC+KE)		**26189**	**23967**	**65897754**	-	-	-	-	-	-	-

** The availability factor of KCCPP, KGTPS and SGTPS, as reported by KE, primarily accounts for outages due to maintenance or faults. It is important to note that these plants faced fuel supply issues during the period. The reported availability should be interpreted accordingly.*

TABLE-3: ASSESSMENT OF POWER PLANTS PERFORMANCE (JULY TO SEPTEMBER, 2024)–THERMAL (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Liberty Power	RFO	202	196	23,596	147	2,059	0	2	99.9	5.5	81.9
2	PakGen	RFO	365	350	1,809	11	2,197	0	0	100.0	0.2	47.0
3	Lal Pir	RFO	362	350	0	0	2,208	0	0	100.0	0.0	0.0
4	Atlas Power	RFO	224	214	15,219	85	2,123	0	0	100.0	3.2	83.7
5	Nishat Power	RFO	202	195	28,408	157	2,032	19	0	99.1	6.6	92.8
6	Nishat Chunian	RFO	202	196	8,054	47	2,159	1	1	99.9	1.9	87.4
7	Saba Power	RFO	136	125	0	0	2,208	0	0	100.0	0.0	0.0
8	HUBCO Narowal	RFO	214	214	9,366	50	2,158	0	0	100.0	2.0	87.5
9	Attock Gen.	RFO	165	156	22,727	160	2,047	0	1	100.0	6.6	91.1
10	Hub	RFO	1,292	1,200	15,051	126	1,939	143	0	93.5	0.6	10.0
11	Kohinoor Energy	RFO	131	124	22,716	296	1,912	0	0	100.0	8.3	61.9
12	Bhikki	RLNG	1,231	1,163	1,654,263	2,115	93	0	0	100.0	64.4	67.3
13	Balloki	RLNG	1,276	1,165	1,662,592	1,760	403	0	45	98.0	64.6	81.1
14	Haveli Bahadur Shah	RLNG	1,277	1,172	1,975,666	2,011	53	0	144	93.5	76.3	83.8
15	Sapphire Electric	RLNG	235	202	138,461	989	1,199	0	20	99.1	31.0	69.3
16	Rousch Power	RLNG	450	395	61,633	314	1,894	0	91	100.0	7.1	49.7
17	FKPCL	RLNG	170	151	36,459	323	1,883	0	2	99.9	10.9	74.8
18	Orient Power	RLNG	225	203	186,928	1,295	899	0	14	99.4	41.7	71.1
19	Saif Power	RLNG	225	204	100,409	808	1,400	0	0	100.0	22.3	60.9
20	Halmore Power	RLNG	225	200	178,264	1,238	746	0	224	89.9	40.4	72.0
21	Nandipur Power Plant	RLNG	567	500	488,274	1,447	758	0	3	99.9	44.2	67.5
22	Punjab Thermal	RLNG	1,263	1,243	661,389	1,319	398	0	491	77.8	24.1	40.3
23	Foundation Power	N.Gas	179	168	296,077	2,123	9	0	76	96.6	79.8	83.0
24	TNB Liberty	N.Gas	235	212	327,396	2,025	143	0	40	98.2	69.9	76.3
25	Uch	N.Gas	586	547	1,013,370	2,067	123	0	18	99.2	83.9	89.6
26	Uch-II Power	N.Gas	404	372	585,187	1,865	318	0	25	98.9	71.2	84.3
27	Engro Powergen Qadirpur	N.Gas	227	212	212,522	2,186	17	0	5	99.8	45.4	45.9
28	Guddu 747	N.Gas	747	721	654,206	974	278	184	772	56.7	41.1	93.2
29	TPS Muzaffargarh	RFO/RLNG	1,350	450	0	0	1,472	0	736	66.7	0.0	0.0
30	TPS Jamshoro	RFO/RLNG	880	300	0	0	1,104	0	1,104	50.0	0.0	0.0
31	Engro Power Thar	Coal	660	603	975,329	1,922	22	264	0	88.0	73.3	84.2
32	Port Qasim	Coal	1,320	1,243	1,133,050	1,256	952	0	0	100.0	41.3	72.6
33	Sahiwal Coal	Coal	1,320	1,244	1,206,775	1,361	846	2	0	100.0	43.9	71.3
34	China Power Hub Coal	Coal	1,320	1,249	140,782	191	2,016	0	0	100.0	5.1	59.0
35	Lucky Electric Power	Coal	660	605	486,079	1,208	957	0	43	98.1	36.4	66.5
36	Thal Nova	Coal	330	303	533,396	2,136	48	0	24	98.9	79.7	82.4
37	Thar Energy	Coal	330	300	404,676	1,622	51	0	536	75.8	61.1	83.2
38	Thar Coal Block-1	Coal	1,320	1,230	2,159,215	1,943	0	0	265	88.0	79.5	90.3
	Sub-Total	**-**	**22,507**	**19,677**	**17,419,344**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE-4: ASSESSMENT OF POWER PLANTS PERFORMANCE (JULY TO SEPTEMBER, 2024) – THERMAL (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	BQPS-I	RFO/RLNG	840	730	230,058	591	1,166	137	314	79.6	14.3	53.3
2	BQPS-II	RLNG	572	526	801,771	2,055	153	0	0	100.0	69.0	74.2
3	BQPS-III	RLNG	942	918	1,472,586	2,150	14	31	13	98.0	72.7	74.6
4	KCCPP	RLNG/HSD	248	227	95,115	887	1,242	33	46	96.4	19.0	47.2
5	KGTPS	RLNG	107	96	1,844	19	2,181	7	1	99.6*	0.9	101.1
6	SGTPS	RLNG	107	96	-	0	2,184	0	24	98.9*	-	-
7	Gul Ahmed Energy	RFO	136	128	60,653	508	1,523	136	41	92.0	21.5	93.3
8	FPCL	Coal	52	52	109,898	2,023	0	0	185	91.6	95.7	104.5
9	Sindh Nooriabad-I	Gas	52	51	75,338	1,518	275	334	81	81.2	66.9	97.3
10	Sindh Nooriabad-II	Gas	52	51	84,854	1,698	261	147	102	88.7	75.4	98.0
11	International Steels	Gas	19	17	4,716	1,072	271	312	553	60.8	12.6	25.9
12	Lucky Cement	Gas	5	5	1,120	2,206	0	0	2	99.9	10.1	10.2
	Sub-Total		**3,132**	**2,897**	**2,937,952**	-	-	-	-	-	-	-
	Grand Total (NTDC+KE)		**25,639**	**22,574**	**20,357,296**	-	-	-	-	-	-	-

** The availability factor of KCCPP, KGTPS and SGTPS, as reported by KE, primarily accounts for outages due to maintenance or faults. It is important to note that these plants faced fuel supply issues during the period. The reported availability should be interpreted accordingly.*

TABLE-5: ASSESSMENT OF POWER PLANTS PERFORMANCE (OCTOBER TO DEC., 2024) – THERMAL (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Liberty Power	RFO	202	196	43	0	2,191	17	0	99.2	0.0	69.3
2	PakGen	RFO	365	350	0	0	1,488	720	0	67.4	0.0	0.0
3	Lal Pir	RFO	362	PPA Terminated								
4	Atlas Power	RFO	224									
5	Nishat Power	RFO	202	195	1,842	10	2,114	17	67	96.2	0.4	91.3
6	Nishat Chunian	RFO	202	196	395	3	2,178	3	24	98.8	0.1	80.7
7	Saba Power	RFO	136	PPA Terminated								
8	HUBCO Narowal	RFO	214	214	238	1	2,176	31	0	98.6	0.1	87.0
9	Attock Gen.	RFO	165	156	1,335	9	2,168	29	1	98.6	0.4	91.2
10	Hub	RFO	1,292	PPA Terminated								
11	Kohinoor Energy	RFO	131	124	783	10	2,198	0	0	100.0	0.3	61.7
12	Bhikki	RLNG	1,231	1,163	1,097,606	1,336	869	0	3	99.9	42.7	70.6
13	Balloki	RLNG	1,276	1,165	1,569,439	1,493	708	0	7	99.7	61.0	90.2
14	Haveli Bahadur Shah	RLNG	1,277	1,172	1,569,323	1,587	194	0	427	80.7	60.6	84.3
15	Sapphire Electric	RLNG	235	202	0	0	1,752	456	0	79.3	0.0	0.0
16	Rousch Power	RLNG	450	395	885	11	1,789	408	0	81.5	0.1	21.1
17	FKPCL	RLNG	170	151	0	0	1,848	360	0	83.7	0.0	0.0
18	Orient Power	RLNG	225	203	24,467	154	1,493	528	33	74.6	5.5	78.3
19	Saif Power	RLNG	225	204	14,800	107	1,645	456	0	79.3	3.3	68.1
20	Halmore Power	RLNG	225	200	12,006	77	1,743	360	4	82.4	2.7	78.2
21	Nandipur Power Plant	RLNG	567	500	28,016	87	2,121	0	0	100.0	2.5	64.3
22	Punjab Thermal	RLNG	1,263	1,243	207,266	535	1,688	0	9	100.7	7.6	31.2
23	Foundation Power	N.Gas	179	168	279,996	2,088	0	38	82	94.6	75.5	79.8
24	TNB Liberty	N.Gas	235	212	246,884	1,438	583	0	187	91.5	52.7	81.0
25	Uch	N.Gas	586	547	798,715	1,590	113	470	35	77.1	66.1	91.9
26	Uch-II Power	N.Gas	404	372	606,633	1,920	276	0	12	99.5	73.9	85.0
27	Engro Powergen Qadirpur	N.Gas	227	212	198,849	2,008	28	154	19	92.2	42.5	46.7
28	Guddu 747	N.Gas	747	721	512,700	813	5	0	1366	37.1	32.2	87.4
29	TPS Muzaffargarh	RFO/RLNG	1,350	450	0	0	1,468	0	740	66.5	0.0	0.0
30	TPS Jamshoro	RFO/RLNG	880	300	0	0	942	162	1104	42.7	0.0	0.0
31	Engro Power Thar	Coal	660	603	1,010,566	1,887	321	0	0	100.0	75.9	88.8
32	Port Qasim	Coal	1,320	1,243	725,714	909	1,299	0	0	100.0	26.4	64.2
33	Sahiwal Coal	Coal	1,320	1,244	373,769	474	1,101	630	3	71.3	13.6	63.4
34	China Power Hub Coal	Coal	1,320	1,249	133,345	122	2,086	0	0	100.0	4.8	87.6
35	Lucky Electric Power	Coal	660	605	229,539	581	1,620	0	7	99.7	17.2	65.3
36	Thal Nova	Coal	330	303	370,551	1,599	0	609	0	72.4	55.4	76.5
37	Thar Energy	Coal	330	300	367,799	1,514	694	0	0	100.0	55.5	81.0
38	Thar Coal Block-1	Coal	1,320	1,230	1,572,277	1,374	125	669	39	67.9	57.9	93.0
39	Jamshoro	Coal	-	-	40,800	-	-	-	-	-	-	-
	Sub-Total	**-**	**22,507**	**17,788**	**11,996,581**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE-6: ASSESSMENT OF POWER PLANTS PERFORMANCE (OCTOBER TO DEC., 2024) – THERMAL (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	BQPS-I	RFO/RLNG	840	730	32423	95	1,668	118	31	79.8	2.0	46.7
2	BQPS-II	RLNG	572	526	323710	1,124	1,084	0	0	100.0	27.9	54.8
3	BQPS-III	RLNG	942	918	971685	1,463	219	441	84	76.2	47.9	72.3
4	KCCPP	RLNG/HSD	248	227	29015	544	1,650	0	0	99.4*	5.8	23.5
5	KGTPS	RLNG	107	96	2420	58	2,150	0	0	100.0*	1.1	43.6
6	SGTPS	RLNG	107	96	0	0	2,208	0	0	100.0*	0.0	0.0
7	Gul Ahmed Energy	RFO	136	128	12614	108	596	88	0	88.8	12.4	91.1
8	FPCL	Coal	52	52	74779	1,397	0	0	811	63.3	65.1	102.9
9	Sindh Nooriabad-I	Gas	52	51	67345	1,351	634	173	50	89.9	59.8	97.7
10	Sindh Nooriabad-II	Gas	52	51	66108	1,316	768	71	52	94.4	58.7	98.5
11	International Steels	Gas	19	17	4017	1,185	0	1,023	0	53.7	10.7	19.9
12	Lucky Cement	Gas	5	5	831	2,194	0	8	6	99.4	7.5	7.6
	Sub-Total		**3,132**	**2,897**	**1,584,947**	-	-	-	-	-	-	-
	Grand Total (NTDC+KE)		**25,639**	**20,685**	**13,581,528**	-	-	-	-	-	-	-

** The availability factor of KCCPP, KGTPS and SGTPS, as reported by KE, primarily accounts for outages due to maintenance or faults. It is important to note that these plants faced fuel supply issues during the period. The reported availability should be interpreted accordingly.*

TABLE-7: ASSESSMENT OF POWER PLANTS PERFORMANCE (JANUARY TO MARCH, 2025)–THERMAL (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Liberty Power	RFO	202	196	17572	124	2034	0	1	99.9	4.1	72.2
2	PakGen	RFO	365	350	5939	32	1144	0	0	100.0	1.4	53.0
3	Lal Pir	RFO	362	PPAs Terminated								
4	Atlas Power	RFO	224									
5	Nishat Power	RFO	202	195	21159	114	2044	0	2	99.9	5.0	94.8
6	Nishat Chunian	RFO	202	196	12313	68	2090	0	2	99.9	2.9	92.9
7	Saba Power	RFO	136	PPA Terminated								
8	HUBCO Narowal	RFO	214	214	12824	65	2052	0	43	98.0	2.8	92.4
9	Attock Gen.	RFO	165	156	23157	159	2001	0	1	100.0	6.9	93.5
10	Hub	RFO	1,292	PPA Terminated								
11	Kohinoor Energy	RFO	131	124	19777	220	1940	0	0	100.0	6.8	66.9
12	Bhikki	RLNG	1,231	1,122	1676302	1853	200	0	108	95.0	69.2	80.7
13	Balloki	RLNG	1,276	1,169	894391	823	0	744	593	38.1	35.4	92.9
14	Haveli Bahadur Shah	RLNG	1,277	1,180	874653	878	65	876	341	43.7	34.3	84.4
15	Sapphire Electric	RLNG	235	209	31341	235	1921	0	4	99.8	6.9	63.6
16	Rousch Power	RLNG	450	PPA Terminated								
17	FKPCL	RLNG	170	151	0	0	1920	240	0	88.9	0.0	0.0
18	Orient Power	RLNG	225	211	85861	539	1610	0	11	99.5	18.9	75.6
19	Saif Power	RLNG	225	208	21544	200	1936	0	0	98.9	4.8	51.7
20	Halmore Power	RLNG	225	207	64659	426	1374	168	48	83.3	14.5	73.5
21	Nandipur Power Plant	RLNG	567	500	85927	236	1891	0	10	98.4	1.4	13.2
22	Punjab Thermal	RLNG	1,263	1,244	315957	836	141	312	871	45.2	11.8	30.4
23	Foundation Power	N.Gas	179	169	247198	1791	1	353	15	83.0	67.9	81.9
24	TNB Liberty	N.Gas	235	223	141604	753	683	720	4	66.5	29.5	84.5
25	Uch	N.Gas	586	548	1045164	2016	48	0	97	95.5	88.3	94.6
26	Uch-II Power	N.Gas	404	356	498776	1566	586	0	8	99.6	64.9	89.5
27	Engro Powergen Qadirpur	N.Gas	227	213	212008	2138	22	0	0	100.0	46.2	46.7
28	Guddu 747	N.Gas	747	720	619441	1187	75	0	898	58.4	39.8	72.4
29	TPS Muzaffargarh	RFO/RLNG	1,350	1,085	0	0	1444	0	716	66.9	0.0	0.0
30	TPS Jamshoro	RFO/RLNG	880	424	0	0	900	180	1080	41.7	0.0	0.0
31	Engro Power Thar	Coal	660	601	762378	1693	0	443	0	78.4	58.7	74.9
32	Port Qasim	Coal	1,320	1,243	46736	72	2088	0	0	100.0	1.7	52.3
33	Sahiwal Coal	Coal	1,320	1,244	964289	974	1186	0	0	100.0	35.9	79.6
34	China Power Hub Coal	Coal	1,320	1,249	264676	345	1815	0	0	100.0	9.8	61.3
35	Lucky Electric Power	Coal	660	607	0	0	1440	720	0	66.7	0.0	0.0
36	Thal Nova	Coal	330	301	403808	2050	35	11	16	96.5	62.2	65.5
37	Thar Energy	Coal	330	300	334360	1689	0	467	4	78.2	51.5	65.9
38	Thar Coal Block-1	Coal	1,320	1,220	2204738	2065	3	0	56	95.7	83.7	87.5
39	Jamshoro	Coal	-	-	72638 (Pre-COD)	-	-	-	-	-	-	-
	Sub-Total	**-**	**22,507**	**18,134**	**11,981,190**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE-8: ASSESSMENT OF POWER PLANTS PERFORMANCE (JANUARY TO MARCH, 2025) – THERMAL (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	BQPS-I	RFO/RLNG	840	730	94	1	1764	408	0	81.7	0.01	12.9
2	BQPS-II	RLNG	572	526	14605	98	2062	0	0	100.0	1.3	28.3
3	BQPS-III	RLNG	942	918	412847	857	920	375	8	82.3	20.8	52.5
4	KCCPP	Gas/RLNG	248	227	0	0	2160	0	0	100.0*	0.0	0.0
5	KGTPS	Gas/RLNG	107	96	0	0	2160	0	0	100.0*	0.0	0.0
6	SGTPS	Gas/RLNG	107	96	0	0	2160	0	0	100.0*	0.0	0.0
7	FPCL	Coal	52	52	21,807	419	0	1345	396	19.4	19.4	100.1
8	Sindh Nooriabad-I	Gas	52	51	49687	993	834	315	19	84.6	45.1	98.1
9	Sindh Nooriabad-II	Gas	52	51	50177	996	926	212	27	89.0	45.5	98.8
10	International Steels	RLNG	19	17	1429	710	57	1321	0	35.5	3.9	11.8
11	Lucky Cement	RLNG	5	5	684	2158	0	0	2	99.9	6.3	6.3
	Sub-Total		**2,996**	**2,769**	**551,330**	-	-	-	-	-	-	-
	Grand Total (NTDC+KE)		**25,503**	**20,903**	**12,532,520**	-	-	-	-	-	-	-

** The availability factor of KCCPP, KGTPS and SGTPS, as reported by KE, primarily accounts for outages due to maintenance or faults. It is important to note that these plants faced fuel supply issues during the period. The reported availability should be interpreted accordingly.*

TABLE-9: ASSESSMENT OF POWER PLANTS PERFORMANCE (APRIL TO JUNE, 2025)–THERMAL (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Liberty Power	RFO	202	196	36628	215	1955	0	14	99.4	8.6	86.9
2	PakGen	RFO	365	PPAs Terminated								
3	Lal Pir	RFO	362									
4	Atlas Power	RFO	224									
5	Nishat Power	RFO	202	195	35256	189	1994	0	1	100.0	8.3	95.7
6	Nishat Chunian	RFO	202	196	36449	210	1973	0	1	100.0	8.5	88.6
7	Saba Power	RFO	136	PPA Terminated								
8	HUBCO Narowal	RFO	214	214	15500	86	2046	0	53	97.6	3.3	84.2
9	Attock Gen.	RFO	165	156	45205	312	1869	0	3	99.9	13.3	92.9
10	Hub	RFO	1,292	PPA Terminated								
11	Kot Addu	RFO	550	478	52710	126	430	0	0	100.0	23.0	87.5
12	Kohinoor Energy	RFO	131	124	32880	126	354	0	0	100.0	12.1	68.0
13	Bhikki	RLNG	1,231	1,130	1669979	2088	92	0	4	99.8	67.7	70.8
14	Balloki	RLNG	1,276	1,169	1353492	1445	160	458	121	73.5	53.0	80.1
15	Haveli Bahadur Shah	RLNG	1,277	1,180	2096007	2080	70	0	34	98.4	81.3	85.4
16	Sapphire Electric	RLNG	235	204	99127	713	1469	0	2	99.9	22.2	68.2
17	Rousch Power	RLNG	450	PPA Terminated								
18	FKPCL	RLNG	170	151	32502	305	1872	0	7	99.7	9.9	70.6
19	Orient Power	RLNG	225	206	161870	1073	1092	6	14	99.1	36.0	73.2
20	Saif Power	RLNG	225	204	97658	767	1417	0	0	100.0	21.9	62.4
21	Halmore Power	RLNG	225	202	109621	820	1285	0	79	96.4	24.8	66.2
22	Nandipur Power Plant	RLNG	567	450	347320	982	1063	0	138	93.6	35.3	78.6
23	Punjab Thermal	RLNG	1,263	1,244	572656	1519	651	0	14	99.4	21.1	30.3
24	Foundation Power	N.Gas	179	166	299364	2103	0	0	81	96.3	82.6	85.8
25	TNB Liberty	N.Gas	235	223	101837	560	12	696	916	26.2	20.9	81.5
26	Uch	N.Gas	586	548	1028528	2074	65	0	45	97.9	85.9	90.5
27	Uch-II Power	N.Gas	404	356	542875	1711	137	335	0	84.6	69.8	89.1
28	Engro Powergen Qadirpur	N.Gas	227	213	150931	1511	6	504	163	69.5	32.4	46.9
29	Guddu 747	N.Gas	747	721	569533	977	21	65	1129	45.7	36.2	80.9
30	TPS Muzaffargarh	RFO/RLNG	1,350	1,084	-	0	1432	0	716	65.6	-	-
31	TPS Jamshoro	RFO/RLNG	880	649	-	0	1092	0	1092	50.0	-	-
32	Engro Power Thar	Coal	660	601	1104637	2176	6	0	2	99.9	84.2	84.5
33	Port Qasim	Coal	1,320	1,243	845697	1047	1125	0	12	99.5	31.2	65.0
34	Sahiwal Coal	Coal	1,320	1,244	1710356	1716	143	0	324	85.1	63.0	80.1
35	China Power Hub Coal	Coal	1,320	1,249	132851	170	1778	0	236	89.2	4.9	62.6
36	Lucky Electric Power	Coal	660	607	303142	678	1489	0	17	99.2	22.9	73.7
37	Thal Nova	Coal	330	301	470606	2108	20	0	56	97.4	71.6	74.2
38	Thar Energy	Coal	330	301	494483	2128	4	0	52	97.6	75.2	77.2
39	Thar Coal Block-1	Coal	1,320	1,231	2378783	2140	4	0	41	98.2	88.5	90.3
40	Jamshoro	Coal	-	-	254842	-	-	-	-	-	-	-
	Sub-Total	**-**	**23057**	**18436**	**17183325**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE-10: ASSESSMENT OF POWER PLANTS PERFORMANCE (APRIL TO JUNE, 2025) – THERMAL (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	BQPS-I	RFO/RLNG	420	379	123,552	459	982	0	17	66.0	14.9	71.0
2	BQPS-II	RLNG	572	526	440,458	1527	657	0	0	100.0	38.3	54.8
3	BQPS-III	RLNG	942	918	1,472,532	2110	31	20	24	98.0	73.4	76.0
4	KCCPP	Gas/RLNG	248	227	7,729	142	1921	101	20	94.5*	1.6	24.0
5	KGTPS	Gas/RLNG	107	96	-	0	2184	0	0	100.0*	-	-
6	SGTPS	Gas/RLNG	107	96	-	0	2184	0	0	100.0*	-	-
7	FPCL	Coal	52	52	72,507	1358	0	22	804	62.2	63.8	102.7
8	Sindh Nooriabad-I	Gas	52	51	57,832	1161	320	668	35	67.8	51.9	97.7
9	Sindh Nooriabad-II	Gas	52	51	66,861	1334	546	265	39	86.1	60.0	98.3
10	International Steels	RLNG	19	17	295	887	0	1297	0	40.6	0.8	2.0
11	Lucky Cement	RLNG	5	5	1,321	2181	0	0	3	99.9	12.1	12.1
	Sub-Total		**2576**	**2418**	**2243087**	-	-	-	-	-	-	-
	Grand Total (NTDC+KE)		**25633**	**20854**	**19426412**	-	-	-	-	-	-	-

** The availability factor of KCCPP, KGTPS and SGTPS, as reported by KE, primarily accounts for outages due to maintenance or faults. It is important to note that these plants faced fuel supply issues during the period. The reported availability should be interpreted accordingly.*

TABLE-11: ASSESSMENT OF POWER PLANTS PERFORMANCE (2024-2025) – HYDEL (NTDC SYSTEM)

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Allai Khwar	121	121	318098	2795	5123	817	0	90.4	30.0	94.1
2	Chashma Hydel Power	184	183	932381	6791	218	853	894	80.0	58.2	75.0
3	Chichoki	13	13	25047	3692	4285	725	58	91.1	22.0	52.2
4	Chitral Hydel Power	1	1	2136	3982	4620	1	157	98.2	24.4	53.6
5	Daral Khwar Hydropower	37	36	159050	8663	0	32	65	98.9	50.4	51.0
6	Dargai	20	20	42936	3287	2004	3429	19	60.4	24.5	65.3
7	Duber Khwar Hydel Power	130	130	432509	4768	3265	726	2	91.7	38.0	69.8
8	Ghazi Barotha	1,450	1447	6708516	5038	2713	769	63	88.5	52.9	92.0
9	Golen Gol	108	108	194635	3979	4073	602	43	91.9	20.6	45.3
10	Gomal Zam	17	17	18718	1578	1	1243	5937	18.0	12.6	69.8
11	Gulpur	100	101	175657	3484	4895	376	5	95.7	19.9	49.9
12	Jabban Hydel Power	22	22	137981	7301	476	891	91	88.8	71.6	85.9
13	Jagran	30	30	113607	8257	0	198	304	94.3	43.2	45.9
14	Jinnah Hydel Power	96	95	135654	2687	254	258	5561	33.6	16.3	53.1
15	Karot	720	713	2738193	5180	3579	1	0	100.0	43.8	74.1
16	Khan Khwar Hydel Power	72	72	169622	2871	4472	746	0	83.8	26.9	82.1
17	Kurram Garhi	4	4	15200	5281	1397	1465	543	76.2	43.4	72.0
18	Malakand-III	84	82	254533	4171	3546	970	25	88.1	35.4	74.4
19	Mangla Power	1,000	997	4241191	4606	2223	1912	7	78.0	48.6	92.4
20	Nandipur Hydel Power	14	14	32147	3690	4518	490	63	93.7	26.2	62.2
21	NJHPC	969	965	0	0	0	0	8766	0.0	0.0	-
22	New Bong Escape	84	84	353605	5743	2813	201	3	97.7	48.1	73.3
23	Patrind	147	147	550643	4546	3850	365	1	95.8	42.8	82.4
24	Ranolia	17	17	0	0	1464	0	4416	16.7	0.0	-
25	Rasul Hydel Power	22	22	36527	3754	1088	995	2889	55.3	19.0	44.2
26	Renala	1	1	1770	7392	773	489	34	93.2	20.2	23.9
27	Shadiwal Hydel Power	14	13	40096	5349	2963	412	0	94.9	35.2	57.7
28	Suki Kinari	884	862	2109098	4017	2516	426	0	74.6	27.9	60.9
29	Tarbela	3,478	3474	14085221	5960	2220	567	6	93.4	46.3	68.0
30	Tarbela 4th Extension	1,410	1407	5154035	4287	3489	972	10	88.8	41.8	85.4
31	Warsak Hydel Power	243	242	794224	4200	736	3736	89	56.3	37.5	78.1
	Total	**11492**	**11440**	**39973030**	-	-	-	-		-	-

TABLE-12: ASSESSMENT OF POWER PLANTS PERFORMANCE (JULY TO SEPTEMBER, 2024) – HYDEL (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Allai Khwar	121	121	122,525	1,101	1,101	6	0	99.7	45.9	92.0
2	Chashma Hydel Power	184	184	246,486	1,895	0	93	217	85.8	60.7	70.7
3	Chichoki	13	13	9,614	1,334	811	5	58	97.1	33.5	55.4
4	Chitral Hydel Power	1	1	473	912	1,202	1	93	95.7	21.4	51.9
5	Daral Khwar Hydropower	37	37	53,390	2,197	0	6	5	99.5	65.4	65.7
6	Dargai	20	20	19,154	1,543	616	31	19	97.8	43.4	62.1
7	Duber Khwar Hydel Power	130	130	188,796	2,003	194	11	0	99.5	65.8	72.5
8	Ghazi Barotha	1,450	1,450	2,156,470	1,646	516	11	35	97.9	67.4	90.4
9	Golen Gol	108	108	64,411	1,180	992	1	35	98.4	27.0	50.5
10	Gomal Zam	17	17	3,007	244	0	1,044	920	11.1	8.0	72.5
11	Gulpur	100	100	92,374	1,510	698	0	0	100.0	41.8	61.2
12	Jabban Hydel Power	22	22	40,517	2,126	42	17	24	98.2	83.4	86.6
13	Jagran	30	30	47,456	1,993	0	121	94	90.3	71.6	79.4
14	Jinnah Hydel Power	96	36	25,591	801	16	5	1,388	37.0	32.2	88.7
15	Karot	720	720	889,251	1,765	443	0	0	100.0	55.9	70.0
16	Khan Khwar Hydel Power	72	72	60,468	1,393	807	8	0	99.6	38.0	60.3
17	Kurram Garhi	4	4	4,967	1,655	398	0	107	93.0	56.2	75.0
18	Malakand-III	84	81	71,201	1,159	1,038	0	11	99.5	39.8	75.8
19	Mangla Power	1,000	1,000	1,003,133	1,021	720	468	1	78.8	45.4	98.3
20	Nandipur Hydel Power	14	14	12,826	1,425	738	6	39	98.0	41.5	64.3
21	NJHPC	969	969	0	0	0	0	2,208	0.0	0.0	0.0
22	New Bong Escape	84	84	59,478	1,070	1,137	1	0	100.0	32.1	66.2
23	Patrind	147	147	205,493	1,641	392	175	0	92.1	63.3	85.2
24	Ranolia	17	17	0	0	0	0	2,208	0.0	0.0	0.0
25	Rasul Hydel Power	22	22	14,368	1,305	801	5	98	95.4	29.6	50.0
26	Renala	1	1	546	1,639	529	6	34	98.2	24.7	33.3
27	Shadiwal Hydel Power	14	14	9,110	1,140	1,080	0	0	100.5	29.5	57.1
28	Suki Kinari	884	883	255,312	408	0	0	0	18.5	13.1	70.9
29	Tarbela	3,478	3,478	6,874,203	2,124	49	25	3	98.4	89.5	93.1
30	Tarbela 4th Extension	1,410	1,410	2,745,742	2,080	74	44	10	97.6	88.2	93.6
31	Warsak Hydel Power	243	243	264,408	1,349	54	746	59	63.5	49.3	80.7
	Total	**11,492**	**11,428**	**15,540,770**	-	-	-	-	-	-	-

TABLE-13: ASSESSMENT OF POWER PLANTS PERFORMANCE (OCTOBER TO DEC., 2024) – HYDEL (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Allai Khwar	121	121	41,142	357	1,712	115	0	93.7	15.4	95.4
2	Chashma Hydel Power	184	184	268,985	1,746	51	183	228	81.4	66.2	83.7
3	Chichoki	13	13	4,214	603	1,455	150	0	93.2	14.7	53.7
4	Chitral Hydel Power	1	1	497	919	1,243	0	46	97.9	22.5	54.1
5	Daral Khwar Hydropower	37	37	15,824	2,191	0	1	16	99.2	19.4	19.5
6	Dargai	20	20	15,650	1,194	741	250	0	87.6	35.4	65.5
7	Duber Khwar Hydel Power	130	130	21,834	365	1,141	702	1	68.2	7.6	46.0
8	Ghazi Barotha	1,450	1,450	1,779,449	1,337	597	250	0	87.6	55.6	91.8
9	Golen Gol	108	108	30,320	780	819	585	0	72.4	12.7	36.0
10	Gomal Zam	17	17	11,594	913	1	9	1,284	41.4	30.9	74.7
11	Gulpur	100	100	6,914	349	1,482	376	0	82.9	3.1	19.8
12	Jabban Hydel Power	22	22	30,897	1,702	251	249	5	88.5	63.6	82.5
13	Jagran	30	30	13,031	2,134	0	21	53	96.6	19.7	20.4
14	Jinnah Hydel Power	96	36	46,993	773	8	71	1,356	35.4	59.1	168.8
15	Karot	720	720	236,973	585	1,623	0	0	100.0	14.9	56.2
16	Khan Khwar Hydel Power	72	72	19,810	351	1,499	351	0	83.8	12.5	78.5
17	Kurram Garhi	4	4	4,915	1,666	176	322	43	83.5	55.6	73.7
18	Malakand-III	84	81	32,375	714	1,492	0	2	99.9	18.1	56.0
19	Mangla Power	1,000	1,000	1,588,128	1,599	204	402	3	81.7	71.9	99.3
20	Nandipur Hydel Power	14	14	4,988	603	1,493	112	0	94.9	16.1	59.0
21	NJHPC	969	969	-	0	0	0	2,208	0.0	0.0	0.0
22	New Bong Escape	84	84	129,027	1,930	235	43	0	98.0	69.6	79.6
23	Patrind	147	147	62,834	663	1,538	8	0	99.7	19.4	64.5
24	Ranolia	17	17	-	0	0	0	2,208	0.0	0.0	0.0
25	Rasul Hydel Power	22	22	10,329	943	13	188	1,052	43.3	21.3	49.8
26	Renala	1	1	384	2,166	0	18	0	98.1	17.4	17.7
27	Shadiwal Hydel Power	14	14	11,154	1,116	1,090	2	0	99.9	36.1	71.4
28	Suki Kinari	884	883	283,216	1,294	848	66	0	97.0	14.5	24.8
29	Tarbela	3,478	3,478	2,174,545	1,298	678	230	1	89.5	28.3	48.2
30	Tarbela 4th Extension	1,410	1,410	835,423	774	1,106	328	0	85.1	26.8	76.5
31	Warsak Hydel Power	243	243	144,217	839	422	948	1	57.1	26.9	70.8
	Total	**11,492**	**11,428**	**7,825,662**	-	-	-	-	-	-	-

TABLE-14: ASSESSMENT OF POWER PLANTS PERFORMANCE (JANUARY TO MARCH, 2025) – HYDEL (NTDC SYSTEM)

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Allai Khwar	121	121	40773	361	1110	688	0	68.1	15.7	93.6
2	Chashma Hydel Power	184	168	164471	1513	147	306	197	76.9	45.4	64.8
3	Chichoki	13	13	3157	428	1170	562	0	74.0	11.3	57.1
4	Chitral Hydel Power	1	1	574	1078	1082	0	0	100.0	29.5	59.2
5	Daral Khwar Hydropower	37	36	15853	2131	0	16	13	98.7	20.2	20.4
6	Dargai	20	20	8132	550	647	964	0	55.4	19.2	75.5
7	Duber Khwar Hydel Power	130	130	35184	533	1622	5	0	99.8	12.6	51.0
8	Ghazi Barotha	1,450	1447	1009826	709	916	354	28	75.2	32.3	98.5
9	Golen Gol	108	108	7665	704	1400	8	8	97.4	3.3	10.1
10	Gomal Zam	17	11	139	23	0	190	1947	1.1	0.6	53.5
11	Gulpur	100	101	21033	483	1677	0	1	100.0	9.6	43.2
12	Jabban Hydel Power	22	22	27100	1443	73	611	32	70.2	57.6	86.1
13	Jagran	30	30	5610	2058	0	38	63	95.3	8.5	9.0
14	Jinnah Hydel Power	96	80	22238	390	225	177	1367	28.5	13.0	71.7
15	Karot	720	713	316433	757	1403	0	0	100.0	20.6	58.7
16	Khan Khwar Hydel Power	72	72	33141	217	923	380	0	52.8	21.5	213.7
17	Kurram Garhi	4	4	2834	960	457	597	122	65.6	33.6	75.7
18	Malakand-III	84	81	23335	375	771	965	1	53.1	13.3	76.5
19	Mangla Power	1,000	997	569858	767	839	537	3	74.4	26.5	74.6
20	Nandipur Hydel Power	14	14	3048	401	1397	363	0	83.2	10.5	56.4
21	NJHPC	969	968	0	0	0	0	2160	0.0	0.0	0.0
22	New Bong Escape	84	84	70174	1132	870	157	0	92.7	38.7	73.8
23	Patrind	147	147	46275	484	1676	0	0	100.0	14.6	65.1
24	Ranolia	17	17	0	0	1464	0	0	67.8	0.0	0.0
25	Rasul Hydel Power	22	22	4183	544	260	800	532	37.2	9.0	35.6
26	Renala	1	1	247	1403	244	465	0	76.3	11.4	17.6
27	Shadiwal Hydel Power	14	13	7913	1229	477	406	0	79.0	27.8	48.8
28	Suki Kinari	884	869	167010	384	1416	360	0	83.3	8.9	50.1
29	Tarbela	3,478	3474	1150358	849	1033	278	1	87.1	15.3	39.0
30	Tarbela 4th Extension	1,410	1407	178034	186	1497	476	0	78.0	5.9	67.9
31	Warsak Hydel Power	243	242	111992	620	234	1304	2	39.5	21.4	74.7
	Total	**11,492**	**11,409**	**4,046,590**	-	-	-	-	-	-	-

TABLE-15: ASSESSMENT OF POWER PLANTS PERFORMANCE (APRIL TO JUNE, 2025) – HYDEL (NTDC SYSTEM)

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Allai Khwar	121	121	113658	976	1200	8	0	99.6	43.0	96.2
2	Chashma Hydel Power	184	183	252439	1637	20	271	252	75.9	63.2	84.3
3	Chichoki	13	13	8062	1327	849	8	0	99.6	28.4	46.7
4	Chitral Hydel Power	1	1	592	1073	1093	0	18	99.2	27.1	55.2
5	Daral Khwar Hydropower	37	36	73983	2144	0	9	31	98.2	94.1	95.9
6	Dargai	20	20	0	0	0	2184	0	-	-	-
7	Duber Khwar Hydel Power	130	130	186695	1867	308	8	1	99.6	65.8	76.9
8	Ghazi Barotha	1,450	1447	1762771	1346	684	154	0	92.9	55.8	90.5
9	Golen Gol	108	108	92239	1315	862	8	0	99.7	39.1	64.9
10	Gomal Zam	17	17	3978	398	0	0	1786	18.2	10.7	58.8
11	Gulpur	100	101	55336	1142	1038	0	4	99.8	25.1	48.0
12	Jabban Hydel Power	22	22	39467	2030	110	14	30	98.0	82.1	88.4
13	Jagran	30	30	47510	2072	0	18	94	94.9	72.5	76.4
14	Jinnah Hydel Power	96	95	40832	723	5	5	1450	33.3	19.7	59.4
15	Karot	720	713	1295536	2073	110	1	0	100.0	83.2	87.7
16	Khan Khwar Hydel Power	72	72	56203	910	1243	7	0	98.6	35.7	85.8
17	Kurram Garhi	4	4	2484	1000	366	546	271	62.5	28.4	62.1
18	Malakand-III	84	82	127622	1923	245	5	11	99.3	71.3	80.9
19	Mangla Power	1,000	997	1080072	1219	460	505	0	76.9	49.6	88.9
20	Nandipur Hydel Power	14	14	11285	1261	890	9	24	98.5	36.9	63.9
21	NJHPC	969	965	0	0	0	0	2190	-	-	-
22	New Bong Escape	84	84	94926	1611	571	0	3	99.9	51.7	70.1
23	Patrind	147	147	236041	1758	244	182	1	91.7	73.5	91.3
24	Ranolia	17	17	0	-	-	-	-	-	-	-
25	Rasul Hydel Power	22	22	7647	962	14	2	1207	44.7	15.9	36.1
26	Renala	1	1	593	2184	0	0	0	100.0	27.2	27.2
27	Shadiwal Hydel Power	14	13	11919	1864	316	4	0	99.8	42.0	49.2
28	Suki Kinari	884	862	1403560	1931	252	0	0	100.0	74.6	84.3
29	Tarbela	3,478	3474	3886115	1689	460	34	1	98.4	51.2	66.2
30	Tarbela 4th Extension	1,410	1407	1394836	1247	812	124	0	94.3	45.4	79.5
31	Warsak Hydel Power	243	242	273607	1392	26	738	27	64.9	51.8	81.2
	Total	**11492**	**11440**	**12560008**	-	-	-	-	-	-	-

TABLE-16: ASSESSMENT OF POWER PLANTS PERFORMANCE (2024-2025) – RENEWABLE (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Sapphire Wind	Wind	53	53	78913	7961	491	48	261	96.5	17.0	18.7
2	Zephyr Wind	Wind	50	50	123889	8647	45	56	12	99.2	28.3	28.7
3	Hydrochina Dawood	Wind	50	50	86197	8686	26	20	28	99.5	19.7	19.8
4	Foundation Wind-1	Wind	50	50	93254	8719	2	9	30	99.6	21.3	21.4
5	Foundation Wind-2	Wind	50	50	105449	8728	0	2	30	99.6	24.1	24.2
6	Sachal Wind	Wind	50	50	87757	8686	3	26	48	99.2	20.0	20.2
7	Metro Power	Wind	50	50	105360	7972	776	12	0	99.9	24.1	26.4
8	Metro Wind	Wind	60	60	171908	7405	1076	48	232	96.8	32.7	38.7
9	UEP Wind	Wind	99	99	153046	7025	1695	2	38	99.5	17.6	22.0
10	Artistic Energy	Wind	50	49	145786	8269	452	12	4	99.6	34.0	36.0
11	Jhimpir Power	Wind	50	50	107170	7694	1052	10	4	99.8	24.5	27.9
12	Hawa Energy	Wind	50	50	105998	7700	1055	23	4	99.9	24.2	27.5
13	Tricon Boston-A	Wind	50	50	119502	7790	852	32	86	98.7	27.3	30.7
14	Tricon Boston-B	Wind	50	50	114474	7816	861	30	53	99.1	26.1	29.3
15	Tricon Boston-C	Wind	50	50	114325	7778	879	27	76	98.8	26.1	29.4
16	Tenaga Generasi	Wind	50	50	89172	8030	790	13	29	100.7	20.4	22.2
17	FFCEL Wind	Wind	50	50	76393	8337	0	62	362	95.2	17.4	18.3
18	3 Gorges 1st Wind	Wind	50	50	85,645	8,743	1	0	12	99.8	19.6	19.6
19	3 Gorges 2nd Wind	Wind	50	50	83,638	8,732	24	0	4	100.0	19.1	19.2
20	3 Gorges 3rd Wind	Wind	50	50	87,061	8,732	24	0	4	100.0	19.9	19.9
21	Yunus Energy	Wind	50	50	84734	7930	828	0	2	100.0	19.3	21.4
22	ACT2 Wind	Wind	30	30	56122	6940	1691	17	113	98.5	21.4	27.0
23	Master Wind	Wind	50	50	82343	7759	832	29	115	98.1	18.8	21.2
24	Gul Ahmed Wind	Wind	50	50	86034	7947	800	10	3	99.9	19.6	21.7
25	Lucky Renewables	Wind	50	50	113966	8091	657	12	0	99.9	26.0	28.2
26	Master Green Energy	Wind	50	50	108079	6809	1679	111	136	96.9	24.7	31.7
27	Zorlu Energy	Wind	56	56	98684	6858	411	40	1450	83.0	20.1	25.7
28	ACT2 Wind	Wind	50	50	121131	6802	1880	57	22	99.1	27.7	35.6
29	Artistic Wind	Wind	50	50	118183	8734	0	16	10	99.7	27.0	27.1
30	Indus Wind	Wind	50	50	131950	8002	672	14	0	99.0	30.1	33.0
31	Lakeside Energy	Wind	50	50	123600	8298	321	71	72	98.4	28.2	29.8
32	Liberty-I	Wind	50	50	108892	7553	1101	61	43	98.8	24.9	28.8
33	DIN Energy	Wind	50	50	111416	7511	1158	36	54	99.0	25.4	29.7
34	Gul Ahmed Electric	Wind	50	50	129544	8717	27	15	1	99.8	29.6	29.7
35	Liberty-II	Wind	50	50	111429	7497	1092	50	75	98.0	25.4	29.7
36	NASDA Green	Wind	50	50	122320	8674	2	45	39	99.0	27.9	28.2

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
37	Quaid-e-Azam Solar	Solar	100	100	157688	4304	14	0	4442	49.3	18.0	36.6
38	Appolo Solar	Solar	100	100	165623	4353	3373	0	1034	88.2	18.9	38.0
39	Atlas Solar	Solar	100	100	189529	8760	0	0	0	100.0	21.6	21.6
40	Best Green Energy	Solar	100	100	164496	4333	4423	3	2	100.0	18.8	38.0
41	Crest Energy	Solar	100	100	167530	4320	4408	3	5	99.6	19.1	38.8
42	Helios Power	Solar	50	50	97505	4290	4453	0	42	99.8	22.3	45.5
43	HNDS	Solar	50	50	96870	4283	3433	0	41	88.1	22.1	45.2
44	Meridian	Solar	50	50	98155	4282	3434	0	41	88.1	22.4	45.8
45	AJ Power Plant	Solar	12	12	18010	4338	4417	0	5	99.9	17.1	34.6
46	Harappa	Solar	18	18	30680	8760	0	0	0	100.0	19.5	19.5

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
47	Chanar	Baggase	22	22	3275	225	1	8499	34	2.6	1.7	66.2
48	RYKML	Baggase	40	40	58591	3282	18	5377	83	37.7	16.7	44.6
49	JDW-II	Baggase	26	24	191652	8321	4	388	47	95.0	91.2	96.0
50	JDW-III	Baggase	27	24	183430	8021	21	709	9	91.8	87.2	95.3
51	Chiniot Power	Baggase	63	63	132874	4077	10	4615	34	46.7	24.1	51.7
52	Hamza Sugar Mills	Baggase	15	15	30006	1815	1218	1342	41	34.6	22.8	110.2
53	Thal Industries	Baggase	20	22	45109	2375	12	6359	14	27.2	23.4	86.3
54	Al-Moiz Industries	Baggase	36	21	22673	2504	0	4031	2226	28.6	12.3	43.1
55	Shahtaj Sugar Mills	Baggase	32	22	2587	3642	0	0	5094	41.6	1.3	3.2
	Sub-Total		**2809**	**2780**	**5699648**	-	-	-	-	-	-	-

TABLE-17: ASSESSMENT OF POWER PLANTS PERFORMANCE (2024-2025) – RENEWABLE (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Oursun Pakistan	Solar	50	50	89,675	4,232	4,525	0	0	100.0	20.5	42.4
2	Gharo Solar	Solar	50	50	99,680	8,758	0	0	2	100.0	22.8	22.8
	Sub-Total		**100**	**100**	**189355**	-	-	-	-	-	-	-
	Grand Total		**2909**	**2880**	**5855760**	-	-	-	-	-	-	-

TABLE-18: ASSESSMENT OF POWER PLANTS PERFORMANCE (JULY TO SEPT., 2024) – RENEWABLE (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Sapphire Wind	Wind	53	50	23,581	2,188	0	15	5	99.1	21.4	21.6
2	Zephyr Wind	Wind	50	50	43,781	2,154	21	33	0	98.5	39.7	40.7
3	Hydrochina Dawood	Wind	50	50	28,955	2,178	0	9	21	98.6	26.2	26.6
4	Foundation Wind-1	Wind	50	50	33,542	2,198	0	0	10	99.5	30.4	30.5
5	Foundation Wind-2	Wind	50	50	36,420	2,198	0	0	10	99.5	33.0	33.1
6	Sachal Wind	Wind	50	50	29,458	2,188	0	15	5	99.1	26.7	26.9
7	Metro Power	Wind	50	50	32,015	2,142	66	0	0	100.0	29.0	29.9
8	Metro Wind	Wind	60	60	57,504	1,791	376	11	30	98.1	43.4	53.5
9	UEP Wind	Wind	99	99	50,432	1,832	356	0	20	99.1	23.1	27.8
10	Artistic Energy	Wind	50	50	46,999	2,078	130	0	0	100.0	42.6	45.2
11	Jhimpir Power	Wind	50	50	33,288	2,171	37	0	0	100.0	30.2	30.7
12	Hawa Energy	Wind	50	50	31,793	2,166	37	4	0	99.8	28.8	29.4
13	Tricon Boston-A	Wind	50	50	37,980	1,874	314	1	19	99.1	34.4	40.5
14	Tricon Boston-B	Wind	50	50	35,967	1,882	311	0	14	99.3	32.6	38.2
15	Tricon Boston-C	Wind	50	50	35,319	1,874	319	0	16	99.3	32.0	37.7
16	Tenaga Generasi	Wind	50	50	29,980	2,208	83	1	16	103.8	27.2	27.2
17	FFCEL Wind	Wind	50	50	24,205	2,139	0	0	69	96.9	21.9	22.6
18	3 Gorges 1st Wind	Wind	50	50	28,824	2,208	0	0	0	100.0	26.1	26.1
19	3 Gorges 2nd Wind	Wind	50	50	25,914	2,208	0	0	0	100.0	23.5	23.5
20	3 Gorges 3rd Wind	Wind	50	50	26,880	2,208	0	0	0	100.0	24.3	24.3
21	Yunus Energy	Wind	50	50	24,570	2,141	67	0	0	100.0	22.3	23.0
22	ACT2 Wind	Wind	30	30	19,972	2,007	149	0	52	97.6	30.2	33.2
23	Master Wind	Wind	50	50	25,495	1,862	318	1	27	98.7	23.1	27.4
24	Gul Ahmed Wind	Wind	50	50	24,499	2,139	69	0	0	100.0	22.2	22.9
25	Lucky Renewables	Wind	50	50	38,703	2,181	27	0	0	100.0	35.1	35.5
26	Master Green Energy	Wind	50	50	36,479	1,981	199	8	20	98.7	33.0	36.8
27	Zorlu Energy	Wind	56	56	32,391	1,709	99	6	394	81.9	26.2	33.8
28	ACT2 Wind	Wind	50	50	40,150	2,010	188	0	10	99.5	36.4	39.9
29	Artistic Wind	Wind	50	50	37,723	2,195	0	7	6	99.4	34.2	34.4
30	Indus Wind	Wind	50	50	40,956	2,149	48	11	0	99.5	37.1	38.1
31	Lakeside Energy	Wind	50	50	38,626	2,129	48	8	23	98.6	35.0	36.3
32	Liberty-I	Wind	50	50	35,191	2,136	58	0	13	99.4	31.9	33.0
33	DIN Energy	Wind	50	50	35,360	2,072	118	2	15	99.2	32.0	34.1
34	Gul Ahmed Electric	Wind	50	50	39,930	2,202	2	3	1	99.8	36.2	36.3
35	Liberty-II	Wind	50	50	36,434	2,135	52	0	22	99.0	33.0	34.1
36	NASDA Green	Wind	50	50	39,387	2,202	2	3	1	99.8	35.7	35.8

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
37	Quaid-e-Azam Solar	Solar	100	96	40,262	1,159	14	0	1,035	53.1	19.0	36.2
38	Appolo Solar	Solar	100	96	42,672	1,175	0	0	1,033	53.2	20.1	37.8
39	Atlas Solar	Solar	100	100	50,217	2,208	0	0	0	100.0	22.7	22.7
40	Best Green Energy	Solar	100	96	42,295	1,171	1,036	0	1	100.0	20.0	37.6
41	Crest Energy	Solar	100	96	43,307	1,172	1,035	0	1	100.0	20.4	38.5
42	Helios Power	Solar	50	50	27,223	1,194	1,004	0	11	99.5	24.7	45.6
43	HNDS	Solar	50	50	27,007	1,196	0	0	9	54.2	24.5	45.2
44	Meridian	Solar	50	50	27,305	1,196	0	0	9	54.2	24.7	45.7
45	AJ Power Plant	Solar	12	12	4,698	1,190	1,015	0	3	99.9	17.7	32.9
46	Harappa	Solar	18	18	8,810	2,208	0	0	0	100.0	22.2	22.2

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
47	Chanar	Baggase	22	22	0	0	0	2,208	0	0.0	0.0	0.0
48	RYKML	Baggase	40	24	9,145	691	0	1,481	36	31.3	17.3	55.1
49	JDW-II	Baggase	26	24	52,694	2,172	0	36	0	98.4	99.4	101.1
50	JDW-III	Baggase	27	24	43,072	1,818	2	384	4	82.4	81.3	98.7
51	Chiniot Power	Baggase	63	63	30,767	1,109	0	1,073	2	50.2	22.1	44.0
52	Hamza Sugar Mills	Baggase	15	15	0	0	0	2,208	0	0.0	0.0	0.0
53	Thal Industries	Baggase	20	20	0	0	0	0	2,208	0.0	0.0	0.0
54	Al-Moiz Industries	Baggase	36	36	0	0	0	0	2,208	0.0	0.0	0.0
55	Shahtaj Sugar Mills	Baggase	32	32	-	-	-	-	-	-	-	-
	Sub-Total		**2,809**	**2,769**	**1,688,181**	-	-	-	-	-	-	-

TABLE-19: ASSESSMENT OF POWER PLANTS PERFORMANCE (JULY TO SEPT., 2024) – RENEWABLE (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Oursun Pakistan	Solar	50	50	19,004	1,111	1,095	0	0	99.9	17.2	34.2
2	Gharo Solar	Solar	50	50	20,916	2,208	0	0	0	100.0	18.9	18.9
	Sub-Total		**100**	**100**	**39,920**	-	-	-	-	-	-	-
	Grand Total		**2,909**	**2,869**	**1,728,101**	-	-	-	-	-	-	-

TABLE-20: ASSESSMENT OF POWER PLANTS PERFORMANCE (OCTOBER TO DEC., 2024)–RENEWABLE (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Sapphire Wind	Wind	53	50	10,195	1,930	172	14	92	95.2	9.2	10.6
2	Zephyr Wind	Wind	50	50	16,599	2,186	22	0	0	100.0	15.0	15.2
3	Hydrochina Dawood	Wind	50	50	10,393	2,184	24	0	0	100.0	9.4	9.5
4	Foundation Wind-1	Wind	50	50	11,185	2,197	0	7	4	99.5	10.1	10.2
5	Foundation Wind-2	Wind	50	50	14,459	2,204	0	0	4	99.8	13.1	13.1
6	Sachal Wind	Wind	50	50	15,112	2,187	0	3	19	99.0	13.7	13.8
7	Metro Power	Wind	50	50	17,947	1,859	337	12	0	99.5	16.3	19.3
8	Metro Wind	Wind	60	60	24,963	1,822	343	9	34	98.0	18.8	22.8
9	UEP Wind	Wind	99	99	20,864	1,614	586	0	7	99.7	9.5	13.1
10	Artistic Energy	Wind	50	50	23,117	2,168	40	0	0	100.0	20.9	21.3
11	Jhimpir Power	Wind	50	50	15,637	1,715	493	0	0	100.0	14.2	18.2
12	Hawa Energy	Wind	50	50	17,405	1,722	486	0	0	100.0	15.8	20.2
13	Tricon Boston-A	Wind	50	50	15,139	2,011	164	12	21	98.5	13.7	15.1
14	Tricon Boston-B	Wind	50	50	15,259	2,017	170	12	9	99.0	13.8	15.1
15	Tricon Boston-C	Wind	50	50	15,812	2,003	178	10	16	98.8	14.3	15.8
16	Tenaga Generasi	Wind	50	50	11,057	1,808	400	0	0	100.0	10.0	12.2
17	FFCEL Wind	Wind	50	50	11,327	2,087	0	24	97	94.5	10.3	10.9
18	3 Gorges 1st Wind	Wind	50	50	12,921	2,202.1	0	0	5.9	99.7	11.7	11.7
19	3 Gorges 2nd Wind	Wind	50	50	12,188	2,184	24	0	0	100.0	11.0	11.2
20	3 Gorges 3rd Wind	Wind	50	50	12,890	2,184	24	0	0	100.0	11.7	11.8
21	Yunus Energy	Wind	50	50	12,071	1,804	404	0	0	100.0	10.9	13.4
22	ACT2 Wind	Wind	30	30	8,118	1,549	627	0	32	98.6	12.3	17.5
23	Master Wind	Wind	50	50	11,177	1,974	178	8	48	97.5	10.1	11.3
24	Gul Ahmed Wind	Wind	50	50	12,215	1,830	368	10	0	99.5	11.1	13.4
25	Lucky Renewables	Wind	50	50	17,156	1,907	289	12	0	99.5	15.5	18.0
26	Master Green Energy	Wind	50	50	15,704	1,523	657	12	15	98.8	14.2	20.6
27	Zorlu Energy	Wind	56	56	14,223	1,804	35	19	350	83.3	11.5	14.1
28	ACT2 Wind	Wind	50	50	16,657	1,386	805	15	2	99.2	15.1	24.0
29	Artistic Wind	Wind	50	50	17,167	2,202	0	5	1	99.7	15.5	15.6
30	Indus Wind	Wind	50	50	18,281	1,887	318	3	0	99.9	16.6	19.4
31	Lakeside Energy	Wind	50	50	17,043	1,966	199	27	16	98.1	15.4	17.3
32	Liberty-I	Wind	50	50	16,035	1,694	499	13	2	99.3	14.5	18.9
33	DIN Energy	Wind	50	50	17,686	1,698	483	15	12	98.8	16.0	20.8
34	Gul Ahmed Electric	Wind	50	50	18,312	2,183	25	0	0	100.0	16.6	16.8
35	Liberty-II	Wind	50	50	15,793	1,701	484	11	12	98.9	14.3	18.6
36	NASDA Green	Wind	50	50	17,500	2,189	0	9	10	99.1	15.9	16.0

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
37	Quaid-e-Azam Solar	Solar	100	96	34,107	967	0	0	1,241	43.8	16.1	36.8
38	Appolo Solar	Solar	100	96	36,112	978	1,229	0	1	100.0	17.0	38.4
39	Atlas Solar	Solar	100	100	33,863	2,208	0	0	0	100.0	15.3	15.3
40	Best Green Energy	Solar	100	96	36,093	975	1,233	0	1	100.0	17.0	38.6
41	Crest Energy	Solar	100	96	36,538	974	1,234	0	0	100.0	17.2	39.1
42	Helios Power	Solar	50	50	19,478	1019	1,213	0	0	101.1	17.6	38.2
43	HNDS	Solar	50	50	19,242	1,010	1,198	0	0	100.0	17.4	38.1
44	Meridian	Solar	50	50	19,573	1,009	1,199	0	0	100.0	17.7	38.8
45	AJ Power Plant	Solar	12	12	3,702	1,015	1,192	0	1	100.0	14.0	30.4
46	Harappa	Solar	18	18	5,259	2,208	0	0	0	100.0	13.2	13.2
47	Chanar	Baggase	22	22	2,810	189	0	2,019	0	8.6	5.8	67.7
48	RYKML	Baggase	40	24	15,611	807	10	1,391	0	37.0	29.5	80.6
49	JDW-II	Baggase	26	24	45,138	1,998	0	186	23	90.5	85.2	94.1
50	JDW-III	Baggase	27	24	45,749	2,036	8	162	2	92.6	86.3	93.6
51	Chiniot Power	Baggase	63	63	46,610	1,354	6	838	10	61.6	33.5	54.6
52	Hamza Sugar Mills	Baggase	15	15	27,050	2,148	12	34	14	97.8	81.7	84.0
53	Thal Industries	Baggase	20	20	15,630	907	0	1,288	13	41.1	35.4	86.2
54	Al-Moiz Industries	Baggase	36	36	4,960	902	0	0	1,306	40.9	6.2	15.3
55	Shahtaj Sugar Mills	Baggase	32	32	-	-	-	-	-	-	-	-
	Sub-Total		**2,809**	**2,769**	**997,133**	-	-	-	-	-	-	-

TABLE-21: ASSESSMENT OF POWER PLANTS PERFORMANCE (OCTOBER TO DEC., 2024) – RENEWABLE (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Oursun Pakistan	Solar	50	50	22,123	978	1,229	0	0	100.0	20	45.2
2	Gharo Solar	Solar	50	50	22,972	2,208	0	0	0	100.0	20.8	20.8
	Sub-Total		**100**	**100**	**45,095**	-	-	-	-	-	-	-
	Grand Total		**2,909**	**2,869**	**1,042,228**	-	-	-	-	-	-	-

TABLE-22: ASSESSMENT OF POWER PLANTS PERFORMANCE (JAN TO MAR, 2025) – RENEWABLE (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Sapphire Wind	Wind	53	53	13620	1937	145	19	60	96.4	11.9	13.3
2	Zephyr Wind	Wind	50	50	19535	2131	2	23	4	98.8	18.1	18.3
3	Hydrochina Dawood	Wind	50	50	13669	2144	2	11	3	99.3	12.7	12.7
4	Foundation Wind-1	Wind	50	50	14187	2148	2	2	8	99.5	13.1	13.2
5	Foundation Wind-2	Wind	50	50	17801	2151	0	2	7	99.6	16.5	16.6
6	Sachal Wind	Wind	50	50	13971	2146	3	6	6	99.5	12.9	13.0
7	Metro Power	Wind	50	50	20826	1865	295	0	0	100.0	19.3	22.3
8	Metro Wind	Wind	60	60	26655	1916	152	8	84	95.7	20.6	23.2
9	UEP Wind	Wind	99	99	24762	1669	484	1	6	99.7	11.6	15.0
10	Artistic Energy	Wind	50	50	24659	2032	93	12	0	98.3	22.8	24.3
11	Jhimpir Power	Wind	50	50	17087	1747	403	10	0	99.5	15.8	19.6
12	Hawa Energy	Wind	50	50	18325	1752	412	19	0	100.2	17.0	20.9
13	Tricon Boston-A	Wind	50	50	18962	1969	153	19	19	98.2	17.6	19.3
14	Tricon Boston-B	Wind	50	50	18542	1974	162	18	7	98.9	17.2	18.8
15	Tricon Boston-C	Wind	50	50	19409	1968	169	17	6	98.9	18.0	19.7
16	Tenaga Generasi	Wind	50	50	14792	1903	243	12	3	99.3	13.7	15.5
17	FFCEL Wind	Wind	50	50	12955	2017	0	35	109	93.4	12.0	12.8
18	3 Gorges 1st Wind	Wind	50	50	13075	2156	0	0	0	99.8	12.1	12.1
19	3 Gorges 2nd Wind	Wind	50	50	14173	2160	0	0	0	100.0	13.1	13.1
20	3 Gorges 3rd Wind	Wind	50	50	15241	2160	0	0	0	100.0	14.1	14.1
21	Yunus Energy	Wind	50	50	15819	1876	284	0	0	100.0	14.6	16.9
22	ACT2 Wind	Wind	30	30	7470	1473	680	0	8	99.6	11.5	16.9
23	Master Wind	Wind	50	50	12546	1961	142	15	18	97.4	11.6	12.8
24	Gul Ahmed Wind	Wind	50	50	16689	1866	294	0	0	100.0	15.5	17.9
25	Lucky Renewables	Wind	50	50	16217	1874	286	0	0	100.0	15.0	17.3
26	Master Green Energy	Wind	50	50	15467	1458	583	45	50	94.5	14.3	21.2
27	Zorlu Energy	Wind	56	56	15461	1758	57	5	340	84.0	12.8	15.7
28	ACT2 Wind	Wind	50	50	17369	1461	672	24	4	98.7	16.1	23.8
29	Artistic Wind	Wind	50	50	17515	2155	0	4	1	99.8	16.2	16.3
30	Indus Wind	Wind	50	50	21647	1831	257	0	0	96.7	20.0	23.6
31	Lakeside Energy	Wind	50	50	19809	2050	74	27	10	98.3	18.3	19.3
32	Liberty-I	Wind	50	50	17501	1697	433	23	6	98.6	16.2	20.6
33	DIN Energy	Wind	50	50	18780	1705	434	8	13	99.0	17.4	22.0
34	Gul Ahmed Electric	Wind	50	50	21572	2160	0	0	0	100.0	20.0	20.0
35	Liberty-II	Wind	50	50	17050	1631	441	21	19	95.9	15.8	20.9
36	NASDA Green	Wind	50	50	18914	2119	0	26	15	98.1	**17.5**	17.8

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
37	Quaid-e-Azam Solar	Solar	100	100	40288	987	0	0	1173	45.7	18.7	40.8
38	Appolo Solar	Solar	100	100	42003	996	1164	0	0	100.0	19.4	42.2
39	Atlas Solar	Solar	100	100	45143	2160	0	0	0	100.0	20.9	20.9
40	Best Green Energy	Solar	100	100	41873	989	1168	3	0	99.9	19.4	42.3
41	Crest Energy	Solar	100	100	42618	979	1154	3	0	98.8	19.7	43.5
42	Helios Power	Solar	50	50	22257	960	1193	0	7	99.7	20.6	46.4
43	HNDS	Solar	50	50	22354	960	1193	0	7	99.7	20.7	46.6
44	Meridian	Solar	50	50	22619	960	1193	0	7	99.7	20.9	47.1
45	AJ Power Plant	Solar	12	12	4484	961	1198	0	1	100.0	17.3	38.9
46	Harappa	Solar	18	18	7042	2160	0	0	0	100.0	18.1	18.1
47	Chanar	Baggase	22	21	0	0	0	2160	0	0.0	0.0	0.0
48	RYKML	Baggase	40	21	33835	1784	8	321	47	83.0	75.6	91.5
49	JDW-II	Baggase	26	24	45709	2159	1	0	0	100.0	86.8	86.9
50	JDW-III	Baggase	27	24	46375	2155	5	0	0	100.0	88.0	88.2
51	Chiniot Power	Baggase	63	57	55498	1590	4	544	22	73.8	45.3	61.5
52	Hamza Sugar Mills	Baggase	15	14	2956	227	0	1933	0	10.5	10.0	95.2
53	Thal Industries	Baggase	20	22	29479	1573	0	583	5	72.8	60.9	83.7
54	Al-Moiz Industries	Baggase	36	21	9035	1526	0	0	610	70.6	20.3	28.7
55	Shahtaj Sugar Mills	Baggase	32	32	2587	-	-	-	-	-	-	-
	Sub-Total		**2,809**	**2,764**	**1,138,227**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE-23: ASSESSMENT OF POWER PLANTS PERFORMANCE (JAN TO MAR, 2025) – RENEWABLE (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Oursun Pakistan	Solar	50	50	24027	987	1173	0	0	100.0	22.2	48.7
2	Gharo Solar	Solar	50	50	26114	2158	0	0	2	99.9	24.2	24.2
	Sub-Total		**100**	**100**	**50,141**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	Grand Total		**2,909**	**2,864**	**1,188,368**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE-24: ASSESSMENT OF POWER PLANTS PERFORMANCE (APRIL TO JUNE, 2025) – RENEWABLE (NTDC SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Sapphire Wind	Wind	53	53	31517	1906	174	0	104	95.2	27.2	31.2
2	Zephyr Wind	Wind	50	50	43974	2176	0	0	8	99.6	40.3	40.4
3	Hydrochina Dawood	Wind	50	50	33180	2180	0	0	4	99.8	30.4	30.4
4	Foundation Wind-1	Wind	50	50	34339	2176	0	0	8	99.6	31.4	31.6
5	Foundation Wind-2	Wind	50	50	36770	2175	0	0	9	99.6	33.7	33.8
6	Sachal Wind	Wind	50	50	29216	2165	0	2	18	99.1	26.8	27.0
7	Metro Power	Wind	50	50	34571	2106	78	0	0	100.0	31.7	32.8
8	Metro Wind	Wind	60	60	62786	1876	205	20	84	95.3	47.9	55.8
9	UEP Wind	Wind	99	99	56988	1910	269	1	5	99.8	26.4	30.1
10	Artistic Energy	Wind	50	49	51011	1991	189	0	4	99.8	47.7	52.3
11	Jhimpir Power	Wind	50	50	41157	2061	119	0	4	99.8	37.7	39.9
12	Hawa Energy	Wind	50	50	38475	2060	120	0	4	99.8	35.2	37.4
13	Tricon Boston-A	Wind	50	50	47421	1936	221	0	27	98.8	43.4	49.0
14	Tricon Boston-B	Wind	50	50	44706	1943	218	0	23	98.9	40.9	46.0
15	Tricon Boston-C	Wind	50	50	43785	1933	213	0	38	98.3	40.1	45.3
16	Tenaga Generasi	Wind	50	50	33343	2111	64	0	10	99.6	30.5	31.6
17	FFCEL Wind	Wind	50	50	27905	2094	0	3	87	95.9	25.6	26.7
18	3 Gorges 1st Wind	Wind	50	50	30825	2177	1	0	6	99.7	28.2	28.3
19	3 Gorges 2nd Wind	Wind	50	50	31363	2180	0	0	4	99.8	28.7	28.8
20	3 Gorges 3rd Wind	Wind	50	50	32050	2180	0	0	4	99.8	29.3	29.4
21	Yunus Energy	Wind	50	50	32274	2109	73	0	2	99.9	29.6	30.6
22	ACT2 Wind	Wind	30	30	20562	1911	235	17	21	98.3	31.4	35.9
23	Master Wind	Wind	50	50	33125	1962	194	5	22	98.7	30.3	33.8
24	Gul Ahmed Wind	Wind	50	50	32630	2112	69	0	3	99.9	29.9	30.9
25	Lucky Renewables	Wind	50	50	41889	2129	55	0	0	100.0	38.4	39.4
26	Master Green Energy	Wind	50	50	40429	1847	240	46	51	95.6	37.0	43.8
27	Zorlu Energy	Wind	56	56	36609	1587	220	10	366	82.7	29.9	41.2
28	ACT2 Wind	Wind	50	50	46955	1945	215	18	6	98.9	43.0	48.3
29	Artistic Wind	Wind	50	50	45778	2182	0	0	2	99.9	41.9	42.0
30	Indus Wind	Wind	50	50	51066	2135	49	0	0	100.0	46.8	47.8
31	Lakeside Energy	Wind	50	50	48122	2153	0	9	23	98.6	44.1	44.7
32	Liberty-I	Wind	50	50	40166	2026	111	25	22	97.8	36.8	39.7
33	DIN Energy	Wind	50	50	39590	2036	123	11	14	98.9	36.3	38.9
34	Gul Ahmed Electric	Wind	50	50	49730	2172	0	12	0	99.5	45.5	45.8
35	Liberty-II	Wind	50	50	42152	2030	115	18	22	98.2	38.6	41.5
36	NASDA Green	Wind	50	50	46519	2164	0	7	13	99.1	42.6	43.0

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
37	Quaid-e-Azam Solar	Solar	100	100	43031	1191	0	0	993	54.5	19.7	36.1
38	Appolo Solar	Solar	100	100	44836	1204	980	0	0	100.0	20.5	37.2
39	Atlas Solar	Solar	100	100	60306	2184	0	0	0	100.0	27.6	27.6
40	Best Green Energy	Solar	100	100	44234	1198	986	0	0	100.0	20.3	36.9
41	Crest Energy	Solar	100	100	45066	1195	985	0	4	99.8	20.6	37.7
42	Helios Power	Solar	50	50	28547	1117	1043	0	24	98.9	26.1	51.1
43	HNDS	Solar	50	50	28268	1117	1042	0	25	98.9	25.9	50.6
44	Meridian	Solar	50	50	28658	1117	1042	0	25	98.9	26.2	51.3
45	AJ Power Plant	Solar	12	12	5126	1172	1012	0	0	100.0	19.6	36.4
46	Harappa	Solar	18	18	9569	2184	0	0	0	100.0	24.3	24.3

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
47	Chanar	Baggase	22	22	465	36	1	2112	34	1.7	1.0	58.7
48	RYKML	Baggase	40	40	0	0	0	2184	0	-	-	-
49	JDW-II	Baggase	26	24	48111	1992	3	166	24	91.3	91.8	100.6
50	JDW-III	Baggase	27	24	48234	2012	6	163	3	92.4	92.0	99.9
51	Chiniot Power	Baggase	63	63	0	24	0	2160	0	1.1	-	-
52	Hamza Sugar Mills	Baggase	15	15	0	0	0	2184	0	-	-	-
53	Thal Industries	Baggase	20	22	0	24	0	2160	0	1.1	-	-
54	Al-Moiz Industries	Baggase	36	21	8678	1214	0	0	970	55.6	18.9	34.0
55	Shahtaj Sugar Mills	Baggase	32	22	-	-	-	-	-	-	-	-
	Sub-Total		**2,809**	**2780**	**1876107**	-	-	-	-	-	-	-

TABLE-25: ASSESSMENT OF POWER PLANTS PERFORMANCE (APRIL TO JUNE, 2025) – RENEWABLE (KE SYSTEM)

S. No.	Name of Power Plants	Main Fuel	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	Oursun Pakistan	Solar	50	50	24,521	1156	1028	0	0	100.0	22.5	42.4
2	Gharo Solar	Solar	50	50	29,678	2184	0	0	0	100.0	27.2	27.2
	Sub-Total		**100**	**100**	**54199**	-	-	-	-	-	-	-
	Grand Total		**2,909**	**2,880**	**1,930,306**	-	-	-	-	-	-	-

TABLE-26: ASSESSMENT OF POWER PLANTS PERFORMANCE (2024-2025) – NUCLEAR

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	K2	1,145	1,018	7,453,415	7,818	0	810	132	89.2	83.6	93.7
2	K3	1,145	1,018	5,657,791	6,064	0	2,162	535	69.2	63.4	91.7
3	Chashma C1	325	300	2,164,029	7,349	0	1,388	0	83.9	82.3	98.2
4	Chashma C2	325	300	2,268,783	7,434	0	1,326	0	84.9	86.3	101.7
5	Chashma C3	340	315	2,377,835	7,917	0	843	0	90.4	86.2	95.3
6	Chashma C4	340	315	2,530,229	8,286	0	459	16	94.6	91.7	96.9
	Total	**3,620**	**3,266**	**22,452,082**	-	-	-	-	-	-	-

TABLE-27: ASSESSMENT OF POWER PLANTS PERFORMANCE (JULY TO SEPTEMBER, 2024) – NUCLEAR

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	K2	1,145	1,040	2,022,683	2,114	0	0	94	95.7	88.1	92.0
2	K3	1,145	1,040	1,617,236	1,590	0	618	0	72.0	70.4	97.8
3	Chashma C1	325	301	649,124	2,208	0	0	0	100.0	97.7	97.7
4	Chashma C2	325	315	259,608	882	0	1,326	0	39.9	37.3	93.4
5	Chashma C3	340	315	654,939	2,208	0	0	0	100.0	94.2	94.2
6	Chashma C4	340	315	570,103	1,875	0	333	0	84.9	82.0	96.5
	Total	**3,620**	**3,326**	**5,773,693**	-	-	-	-	-	-	-

TABLE-28: ASSESSMENT OF POWER PLANTS PERFORMANCE (OCTOBER TO DECEMBER, 2024) – NUCLEAR

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	K2	1,145	1,040	2,041,858	2,184	0	0	0	98.9	88.9	89.9
2	K3	1,145	1,040	758,281	968	0	1,030	210	43.9	33.0	75.3
3	Chashma C1	325	301	660,399	2,208	0	0	0	100.0	99.4	99.4
4	Chashma C2	325	315	664,173	2,208	0	0	0	100.0	95.5	95.5
5	Chashma C3	340	315	372,126	1,365	0	843	0	61.8	53.5	86.5
6	Chashma C4	340	315	665,405	2,208	0	0	0	100.0	95.7	95.7
	Total	**3,620**	**3,326**	**5,162,242**	-	-	-	-	-	-	-

TABLE-29: ASSESSMENT OF POWER PLANTS PERFORMANCE (JANUARY TO MARCH, 2025) – NUCLEAR

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	K2	1,145	1,018	2043862	2146	0	0	38	99.4	93.0	93.6
2	K3	1,145	1,018	1521531	1722	0	114	325	79.7	69.2	86.9
3	Chashma C1	325	300	649834	2160	0	0	0	100.0	100.3	100.3
4	Chashma C2	325	300	674083	2160	0	0	0	100.0	104.0	104.0
5	Chashma C3	340	315	675356	2160	0	0	0	100.0	99.3	99.3
6	Chashma C4	340	315	674436	2160	0	0	0	100.0	99.1	99.1
	Total	**3,620**	**3,265**	**6,239,102**	-	-	-	-	-	-	-

TABLE-30: ASSESSMENT OF POWER PLANTS PERFORMANCE (APRIL TO JUNE, 2025) – NUCLEAR

S. No.	Name of Power Plants	Inst. Cap. (MW)	Ref. Cap. (MW)	Net Gen. (MWh)	Service Hours	Standby Hours	Planned Outage Hours	Unplanned Outage Hours	Availability Factor (%)	Net Capacity Factor (%)	Net Output Factor (%)
1	K2	1,145	1,018	1345012	1374	0	810	0	62.9	61.0	96.0
2	K3	1,145	1,018	1760743	1784	0	400	0	81.7	79.2	97.0
3	Chashma C1	325	300	204672	773	0	1388	0	35.4	31.2	88.3
4	Chashma C2	325	300	670919	2184	0	0	0	100.0	102.4	102.4
5	Chashma C3	340	315	675414	2184	0	0	0	100	98.2	98.2
6	Chashma C4	340	315	620285	2043	0	126	16	93.5	90.2	96.4
	Total	**3,620**	**3266**	**5,277,045**	-	-	-	-	-	-	-

DEFINITIONS AND ACRONYMS

1. **Installed Capacity**: The unit's total maximum potential generation capacity.

2. **Reference Capacity**: The maximum generating capability, adjusted for Initial Dependable Capacity (IDC) or Annual Initial Dependable Capacity (AIDC), excluding auxiliary power consumption.

3. **Net Generation**: The actual electricity generated, excluding power used for station service or auxiliary needs.

4. **Service Hours**: The total time the unit was online and synchronized to the grid, actively generating power.

5. **Standby Hours**: The time the unit was available but not utilized for economic reasons (e.g., lower cost plants being idle).

6. **Planned Outage Hours**: The duration the unit was offline due to scheduled maintenance, overhauls, or planned repairs.

7. **Unplanned Outage Hours**: The time the unit was offline due to unexpected issues such as equipment failures, delayed starts, or unforeseen shutdowns.

8. **Availability Factor (AF)**: The ratio of Available Hours (when the unit could have operated) to Period Hours (total hours in the reporting period).

9. **Net Capacity Factor (NCF)**: The ratio of Net Generation to the product of Net Capacity and Period Hours, reflecting plant utilization.

10. **Net Output Factor**: The ratio of Net Generation to the product of Net Capacity and Service Hours, indicating the actual output relative to available capacity.

Monthly M&E Report: July 2024

Generation Break-Up and Comparative Analysis

Source	Jul 23 (GWh)	Jul 24 (GWh)	YoY Change (%)	Jun 24 (GWh)	MoM Change (%)
Bagasse	40	53	34%	60	-12%
Coal- Imported	702	1,137	62%	637	44%
Coal- Local	1,478	1,506	2%	1,489	1%
Gas	1,129	1,150	2%	1,166	-1%
Hydel	5,518	5,341	-3%	4,729	11%
Import from Iran	29	48	66%	48	0%
Nuclear	2,107	1,988	-6%	1,998	-1%
RFO	295	102	-65%	263	-158%
RLNG	2,918	2,999	2%	2,437	23%
Solar	75	110	47%	118	-6%
Wind	549	445	-19%	516	-16%
Grand Total	**14,839**	**14,880**	**0%**	**13,459**	**10%**

Variation against Reference

Reference Generation (GWh)	15,362
Actual Generation (GWh)	14,880
Energy Sold (GWh)	14,411
Reference Fuel Price (Rs. Mln)	139,286
Actual Fuel Price (Rs. Mln)	132,588
Fuel Price Chargeable (Rs. Mln)	130,243
Reference. Rate (Rs./KWh)	9.35
Avg. Rate (Rs./KWh)	9.04
FCA Claim Current month (Rs./KWh)	**(0.31)**

Monthly M&E Report: August 2024

Generation Break-Up and Comparative Analysis

Source	Aug 23 (GWh)	Aug 24 (GWh)	YoY Change (%)	Jul 24 (GWh)	MoM Change (%)	2MFY 2024	2MFY 2025	YoY Change (%)
Bagasse	38	47	24%	53	-12%	78	100	29%
Coal-Imported	719	681	-5%	1,137	-40%	1,421	1,818	28%
Coal- Local	1,638	1,306	-20%	1,506	-13%	3,116	2,811	-10%
Gas	1,214	950	-22%	1,180	-19%	2,342	2,130	-9%
Hydel	6,006	5,362	-11%	5,341	0%	11,523	10,703	-7%
Import from Iran	26	36	37%	48	-25%	55	84	52%
Nuclear	2,040	2,190	7%	1,988	10%	4,147	4,178	1%
RFO	649	6	-99%	102	-94%	944	108	-89%
RLNG	2,741	2,106	-23%	2,970	-29%	5,659	5,075	-10%
Solar	84	98	17%	110	-11%	159	209	31%
Wind	805	398	-51%	445	-11%	1,353	843	-38%
Grand Total	15,959	13,179	**-17%**	14,880	**-11%**	**30,798**	**28,059**	**29%**

Variation against Reference

Reference Generation (GWh)	16,514
Actual Generation (GWh)	13,179
Energy Sold (GWh)	12,752
Reference Fuel Price (Rs. Mln)	150,300
Actual Fuel Price (Rs. Mln)	114,389
Fuel Price Chargeable (Rs. Mln)	112,376
Reference. Rate (Rs./KWh)	9.39
Avg. Rate (Rs./KWh)	8.81
FCA Claim Current month (Rs./KWh)	**(0.58)**

Monthly M&E Report: Sep 2024

Generation Break-Up and Comparative Analysis

Source	Sep 23 (GWh)	Sep 24 (GWh)	YoY Change (%)	Aug 24 (GWh)	MoM Change (%)	3MFY 2024	3MFY 2025	YoY Change (%)
Bagasse	35	36	3%	47	-24%	112	136	21%
Coal-Imported	644	1,149	78%	681	69%	2,065	2,967	44%
Coal- Local	1,479	1,261	-15%	1,306	-3%	4,595	4,073	-11%
Gas	1,005	988	-2%	950	4%	3,348	3,118	-7%
Hydel	5,009	4,838	-3%	5,362	-10%	16,532	15,541	-6%
Import from Iran	24	40	66%	36	13%	79	124	56%
Nuclear	2,286	1,596	-30%	2,190	-27%	6,434	5,774	-10%
RFO	241	39	-84%	6	592%	1,184	147	-88%
RLNG	2,128	2,039	-4%	2,106	-3%	7,786	7,115	-9%
Solar	79	105	33%	98	7%	238	314	32%
Wind	410	395	-4%	398	-1%	1,764	1,239	-30%
Grand Total	**13,339**	**12,487**	**-6%**	**13,179**	**-5%**	**44,137**	**40,546**	**-8%**

Variation against Reference

Reference Generation (GWh)	13,850
Actual Generation (GWh)	12,487
Energy Sold (GWh)	12,188
Reference Fuel Price (Rs. Mln)	131,688
Actual Fuel Price (Rs. Mln)	111,618
Fuel Price Chargeable (Rs. Mln)	110,216
Reference. Rate (Rs./KWh)	9.80
Avg. Rate (Rs./KWh)	9.09
FCA Claim Current month (Rs./KWh)	**(0.70)**

Monthly M&E Report: October 2024

Source	Oct-24 (GWh)	Oct-23 (GWh)	YoY Change (%)	Sep-24 (GWh)	MoM Change (%)	4MFY25 (GWh)	4MFY24 (GWh)	YoY Change (%)
Bagasse	50	29	+72%	36	+39%	186	141	+32%
Coal (Imported)	903	336	+169%	1,149	-21%	3,870	2,401	+61%
Coal (Local)	1,518	1,334	+14%	1,261	+20%	5,591	5,929	-6%
Gas	826	704	+17%	988	-16%	3,944	4,051	-3%
Hydel	3,187	3,114	+2%	4,838	-34%	18,728	19,646	-5%
Nuclear	1,442	1,826	-21%	1,596	-10%	7,216	8,260	-13%
RFO	0	0	0%	39	-95%	0	1,184	-87%
RLNG	2,003	1,939	+3%	2,039	-2%	9,118	9,725	-6%
Solar	99	76	+30%	105	-6%	412	314	+31%
Wind	190	191	-1%	395	-52%	1,428	1,955	-27%
Others	42	23	+83%	40	+5%	102	63	+63%
Total	**10,262**	**9,572**	+7%	**12,487**	-18%	**50,808**	**53,709**	-5%

Variation against Reference

Reference Generation (GWh)	10,187
Actual Generation (GWh)	10,262
Energy Sold (GWh)	9,981
Reference Fuel Price (Rs. Mln)	101,480
Actual Fuel Price (Rs. Mln)	92,046
Fuel Price Chargeable (Rs. Mln)	92,412
Reference. Rate (Rs./KWh)	10.28
Avg. Rate (Rs./KWh)	9.26
FCA Claim Current month (Rs./KWh)	**(1.02)**

Monthly M&E Report: November 2024

Source	Nov-23 (GWh)	Nov-24 (GWh)	YoY Change (%)	Oct-24 (GWh)	MoM Change (%)	5MFY24 (GWh)	5MFY25 (GWh)	YoY Change (%)
Bagasse	27	**52**	96%	50	4%	168	238	42%
Coal-Imported	486	**477**	-2%	903	-47%	2,887	4,346	51%
Coal-Local	987	**1,019**	3%	1,518	-33%	6,916	6,610	-4%
Gas	695	**858**	23%	826	4%	4,746	4,802	1%
Hydel	2,755	**2,860**	4%	3,187	-10%	22,401	21,588	-4%
Import from Iran	30	**37**	24%	42	-13%	132	203	54%
Nuclear	1,572	**1,655**	5%	1,442	15%	9,832	8,871	-10%
F.O.	0	**0**	-100%	2	-100%	1,183	149	-87%
RLNG	798	**907**	14%	2,003	-55%	10,523	10,024	-5%
Solar	50	**69**	39%	99	-30%	364	482	32%
Wind	148	**98**	-34%	190	-48%	2,103	1,527	-27%
Total	*7,547*	*8,031*	*6%*	*10,262*	*-22%*	*61,254*	*58,840*	*-4%*

Variation against Reference

Reference Generation (GWh)	7,972
Actual Generation (GWh)	8,031
Energy Sold (GWh)	7,716
Reference Fuel Price (Rs. Mln)	60,758
Actual Fuel Price (Rs. Mln)	58,239
Fuel Price Chargeable (Rs. Mln)	55,765
Reference. Rate (Rs./KWh)	7.86
Avg. Rate (Rs./KWh)	7.23
FCA Claim Current month (Rs./KWh)	**(0.63)**

Monthly M&E Report: December 2024

Source	*Dec-23 (GWh)*	*Dec-24 (GWh)*	*YoY Change (%)*	*Nov-24 (GWh)*	*MoM Change (%)*	*6MFY24 (GWh)*	*6MFY25 (GWh)*	*YoY Change (%)*
Bagasse	101.24	101.07	0.14%	52	94%	268.92	339.24	26%
Coal- Imported	383.63	123.63	-68%	477	-74%	3,270.72	4,469.85	37%
Coal- Local	1,309.55	784.28	-40%	1,019	-23%	8,225.74	7,393.81	-10%
Gas	825.91	959.82	16%	858	12%	5,572.09	5,762.19	3%
Hydel	1,859.01	1,778.28	-4%	2,860	-38%	24,259.81	23,366.43	-4%
Import from Iran	28.20	32.76	16%	37	-11%	159.76	235.77	48%
Nuclear	1,464.43	2,065.10	41%	1,655	25%	11,296.09	10,935.94	-3%
F.O.	168.22	2.64	-98%	0	-	1,351.59	151.58	-89%
RLNG	1,267.99	1,614.68	27%	907	78%	11,791.17	11,638.49	-1%
Solar	61.82	75.82	23%	69	10%	425.65	557.76	31%
Wind	150.37	261.62	74%	98	167%	2,253.04	1,788.32	-21%
Total	***7,626.68***	***7,799.69***	***2%***	***8,031***	***-3%***	***68,880.88***	***66,639.37***	***-3%***

Variation against Reference

Reference Generation (GWh)	7,929
Actual Generation (GWh)	7,799
Energy Sold (GWh)	7,516
Reference Fuel Price (Rs. Mln)	81,765
Actual Fuel Price (Rs. Mln)	73,362
Fuel Price Chargeable (Rs. Mln)	72,164
Reference. Rate (Rs./KWh)	10.64
Avg. Rate (Rs./KWh)	9.60
FCA Claim Current month (Rs./KWh)	**(1.04)**

Monthly M&E Report: January 25 Annex V

Prepared by M&E **Date:** February 25, 2025

Details at Annex-A

Generation: Highlights

Item	Jan-24	Jan-25	YoY Change (%)	Dec-24	MoM Change (%)
PLAC (Rs. Mln)	3,821	3,011	-21%	2,756	9%
NPMV (Rs. Mln)	4,818	Data N.A	N.A	2,108	N.A
Max Load (MW)	13,786	14,085	2%	13,792	2%
Min Load (MW)	7,543	7,799	3%	7,714	1%
Avg. Load (MW)	11,135	10,914	-2%	10,480	4%

- **Partial Loading Adjustment Charges (PLAC): Jan 25** Rs. 3.01 billion, **FY25** : 25.45 billion
- **Guddu 747 Open Cycle Energy:** 261 GWh, **Fin. Impact Guddu 747 OC:** Rs. 938 million
- **Major Forced Outages:** Neelum Jhelum, Punjab Thermal and Balloki
- **Fin. Impact: Rs. 1,172 million** due to system constraints (South North constraints, curtailment of imported coal plants in south and operation of RFO/RLNG plants in the North)

Generation Break-Up and Comparative Analysis

The table below provides an overview of energy generation by source, comparing January 2025 against January 2024 and July 2023 to January 2024 (FY 2023-24) versus same period for FY 2024-25. Additionally, it includes fiscal year-to-date performance:

Source	*Jan 24 (GWh)*	*Jan 25 (GWh)*	*YoY Change (%)*	*Dec-24 (GWh)*	*MoM Change (%)*	*7MFY24 (GWh)*	*7MFY25 (GWh)*	*YoY Change (%)*
Bagasse	106	95	-10%	101	-6%	375	435	16%
Coal- Imported	576	695	21%	784	-11%	3,847	5,165	34%
Coal- Local	1,373	1,269	-8%	124	926%	9,599	8,662	-10%
Gas	1,035	1,069	3%	960	11%	6,607	6,831	3%
HSD	102	-	-100%	-	-100%	108	-	-100%
Hydel	924	866	-6%	1778	-51%	25,184	24,233	-4%
Import from Iran	29	34	15%	33	3%	189	269	43%
Nuclear	1,728	2,169	26%	2065	5%	13,024	13,105	1%
RFO	750	109	-85%	3	4033%	2,102	261	-88%
RLNG	1,514	1,542	2%	1615	-4%	13,306	13,181	-1%
Solar	48	86	79%	76	13%	474	644	36%
Wind Power	128	218	71%	262	-17%	2,381	2,006	-16%
Total	**8,314**	**8,153**	-2%	7,799	5%	77,195	74,793	**-3%**

Variation against Reference

Reference Generation (GWh)	8,232
Actual Generation (GWh)	8,153
Energy Sold (GWh)	7,816
Reference Fuel Price (Rs. Mln)	107,100
Actual Fuel Price (Rs. Mln)	87,969
Fuel Price Chargeable (Rs. Mln)	86,035
Reference. Rate (Rs./KWh)	13.01
Avg. Rate (Rs./KWh)	11.00
FCA Claim Current month (Rs./KWh)	**(2.00)**

Monthly M&E Report: February 25

Date: March 24, 2025

Details at Annex-A

Generation: Highlights

Item	Feb 24	Feb 25	YoY Change (%)	Jan 25	MoM Change (%)
PLAC (Rs. Mln)	2,866	1,738	-39%	3,011	-42%

- **Partial Loading Adjustment Charges (PLAC): Feb 25** Rs. 1.73 billion, **FY25** : 27.18 billion
- **Guddu 747 Open Cycle Energy:** 168 GWh, **Fin. Impact Guddu 747 OC:** Rs. 601 million
- **Major Forced Outages:** Neelum Jhelum, Punjab Thermal, Balloki and HBS.
- **Fin. Impact: (1,981)** due to system constraints (South North constraints, curtailment of imported coal plants in south and operation of RLNG plants in the North)

Generation Break-Up and Comparative Analysis

The table below provides an overview of energy generation by source, comparing February 2025 against February 2024 and July 2023 to January 2024 (FY 2023-24) versus same period for FY 2024-25:

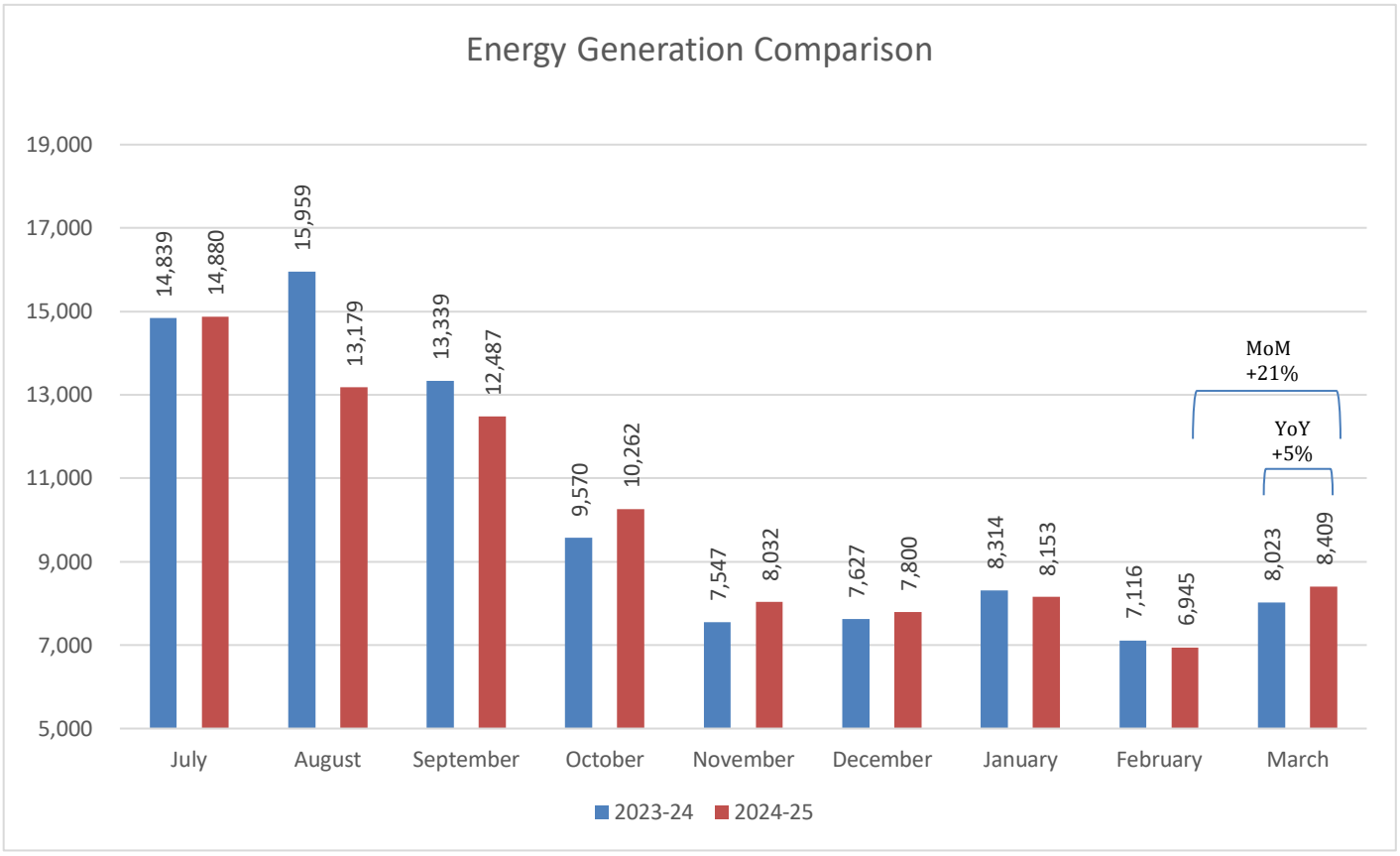
Source	*Feb 24 (GWh)*	*Feb 25 (GWh)*	*YoY Change (%)*	*Jan 25 (GWh)*	*MoM Change (%)*	*8MFY24 (GWh)*	*8MFY25 (GWh)*	*YoY Change (%)*
Bagasse	101	79	-22%	95	-17%	476	513	8%
Coal- Imported	135	108	-20%	695	-84%	3,982	5,274	32%
Coal- Local	994	1,043	5%	1,269	-18%	10,592	9,706	-8%
Gas	787	716	-9%	1,069	-33%	7,394	7,548	2%
HSD	-	-	-	-	-	108	-	-100%
Hydel	1,766	1,883	7%	866	117%	26,950	26,116	-3%
Import from Iran	26	30	15%	34	-13%	214	299	39%
Nuclear	1,660	1,847	11%	2,169	-15%	14,684	14,952	2%
RFO	-	-	-	109	-100%	2,102	261	-88%
RLNG	1,450	980	-32%	1,542	-36%	14,755	14,161	-4%
Solar	90	85	-6%	86	-1%	564	729	29%
Wind Power	108	174	61%	218	-20%	2,488	2,180	-12%
Total	**7,116**	**6,945**	**-2%**	**8,153**	**-15%**	**84,311**	**81,738**	**-3%**

Variation against Reference

Reference Generation (GWh)	7,407
Actual Generation (GWh)	6,945
Energy Sold (GWh)	6,666
Reference Fuel Price (Rs. Mln)	61,235
Actual Fuel Price (Rs. Mln)	56,530
Fuel Price Chargeable (Rs. Mln)	54,858
Reference. Rate (Rs./KWh)	8.53
Avg. Rate (Rs./KWh)	8.23
FCA Claim Current month (Rs./KWh)	**(0.2984)**

Monthly M&E Report: March 25

Date: April 28, 2025



Details at Annex-A

Generation: Highlights

Item	Mar 24	Mar 25	YoY Change (%)	Feb 25	MoM Change (%)
PLAC (Rs. Mln)	3,538	2,649	*-25%*	1,738	*52.42%*
NPMV	2,287	558	*-76%*	426	*30.99%*

- **Partial Loading Adjustment Charges (PLAC): Mar 25** Rs. 2.65 billion, **FY25** : 29.8 billion
- **Guddu 747 Open Cycle Energy:** 168 GWh, **Fin. Impact Guddu 747 OC:** Rs. 682 million
- **Major Forced Outages:** Neelum Jhelum, Punjab Thermal, Balloki, K-3 (partial forced outage).
- **Fin. Impact: 622 million** due to system constraints (South North constraints, curtailment of imported coal plants in south and operation of RLNG plants in the North)

Generation Break-Up and Comparative Analysis

The table below provides an overview of energy generation by source, comparing March 2025 against March 2024 and July 2023 to March 2024 (FY 2023-24) versus same period for FY 2024-25:

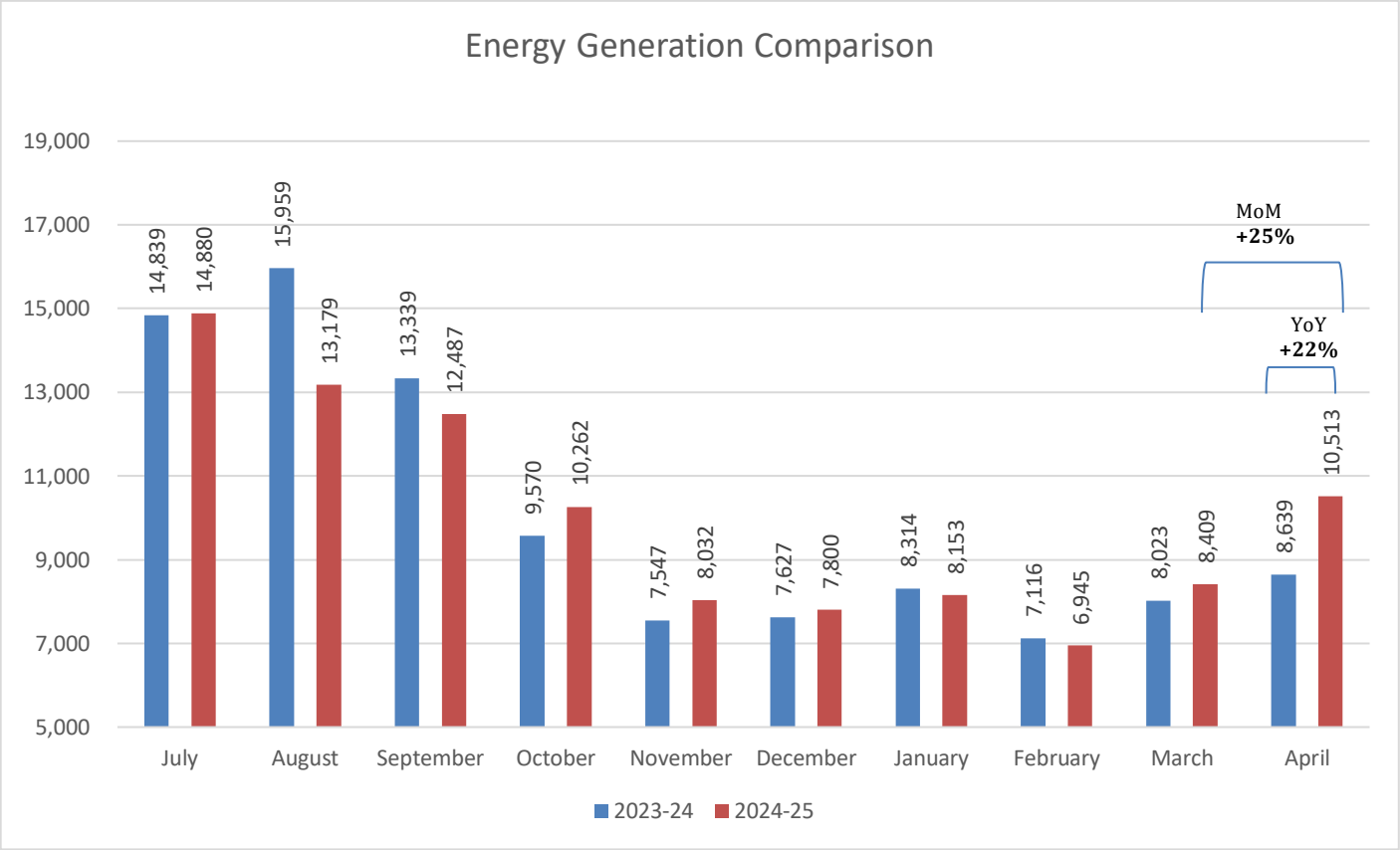
Source	*Mar 24 (GWh)*	*Mar 25 (GWh)*	*YoY Change (%)*	*Feb 25 (GWh)*	*MoM Change (%)*	*9MFY24 (GWh)*	*9MFY25 (GWh)*	*YoY Change (%)*
Bagasse	78	51	-53%	79	-35%	554	565	2%
Coal- Imported	-	545	100%	108	404%	3,982	5,818	32%
Coal- Local	862	1,393	38%	1,043	34%	11,454	11,099	-3%
Gas	795	979	19%	716	37%	8,190	8,526	4%
HSD	-	-	-	-	-	108	-	-
Hydel	2,217	1,297	-71%	1,883	-31%	29,167	27,413	-6%
Import from Iran	28	39	28%	30	31%	243	338	28%
Nuclear	2,070	2,223	7%	1,847	20%	16,754	17,175	2%
RFO	-	4	100%	-	-	2,102	264	-695%
RLNG	1,658	1,528	-9%	980	56%	16,414	15,689	-5%
Solar	110	120	8%	85	41%	674	848	21%
Wind Power	205	230	11%	174	32%	2,693	2,410	-12%
Total	8,023	8,409	**5%**	**6,945**	**21%**	92,334	90,147	**-2%**

Variation against Reference

Reference Generation (GWh)	8,889
Actual Generation (GWh)	8,409
Energy Sold (GWh)	8,114
Reference Fuel Price (Rs. Mln)	82,277
Actual Fuel Price (Rs. Mln)	76,231
Fuel Price Chargeable (Rs. Mln)	74,852
Reference. Rate (Rs./KWh)	9.26
Avg. Rate (Rs./KWh)	9.22
FCA Claim Current month (Rs./KWh)	**(0.03)**

Monthly M&E Report: April 25

Date: May 27, 2025



Details at Annex-A

Generation Break-Up and Comparative Analysis

- The table below provides an overview of energy generation by source, comparing April 2025 against April 2024 and July 2023 to April 2024 (FY 2023-24) versus same period for FY 2024-25:

Source	*Apr 24 (GWh)*	*Apr 25 (GWh)*	*YoY Change (%)*	*Mar 25 (GWh)*	*MoM Change (%)*	*10MFY24 (GWh)*	*10MFY25 (GWh)*	*YoY Change (%)*
Bagasse	56	37	**-34%**	51	**-27%**	610	602	**-1%**
Coal- Imported	21	1,054	**4,919%**	545	**93%**	4,003	6,872	**72%**
Coal- Local	881	1,525	**73%**	1,393	**9%**	12,335	12,624	**2%**
Gas	975	842	**-14%**	979	**-14%**	9,164	9,368	**2%**
HSD	-	-	**-**	-	**-**	108	-	**-**
Hydel	2,070	2,306	**11%**	1,297	**78%**	31,237	29,719	**-5%**
Import from Iran	37	32	**-14%**	39	**-18%**	280	371	**33%**
Nuclear	2,043	1,882	**-8%**	2,223	**-15%**	18,796	19,057	**1%**
RFO	0	83	**-**	4	**1975%**	2,102	348	**-83%**
RLNG	2,157	2,157	**0%**	1,528	**41%**	18,571	17,846	**-4%**
Solar	113	115	**2%**	120	**-4%**	786	964	**23%**
Wind Power	287	478	**67%**	230	**108%**	2,980	2,889	**-3%**
Total	**8,639**	**10,513**	**22%**	**8,409**	**25%**	**100,973**	**100,660**	**0%**

Item	April 24	April 25	YoY Change (%)	Mar 25	MoM Change (%)
PLAC (Rs. Mln)	3,658	2,920	***-20%***	2,649	***10%***

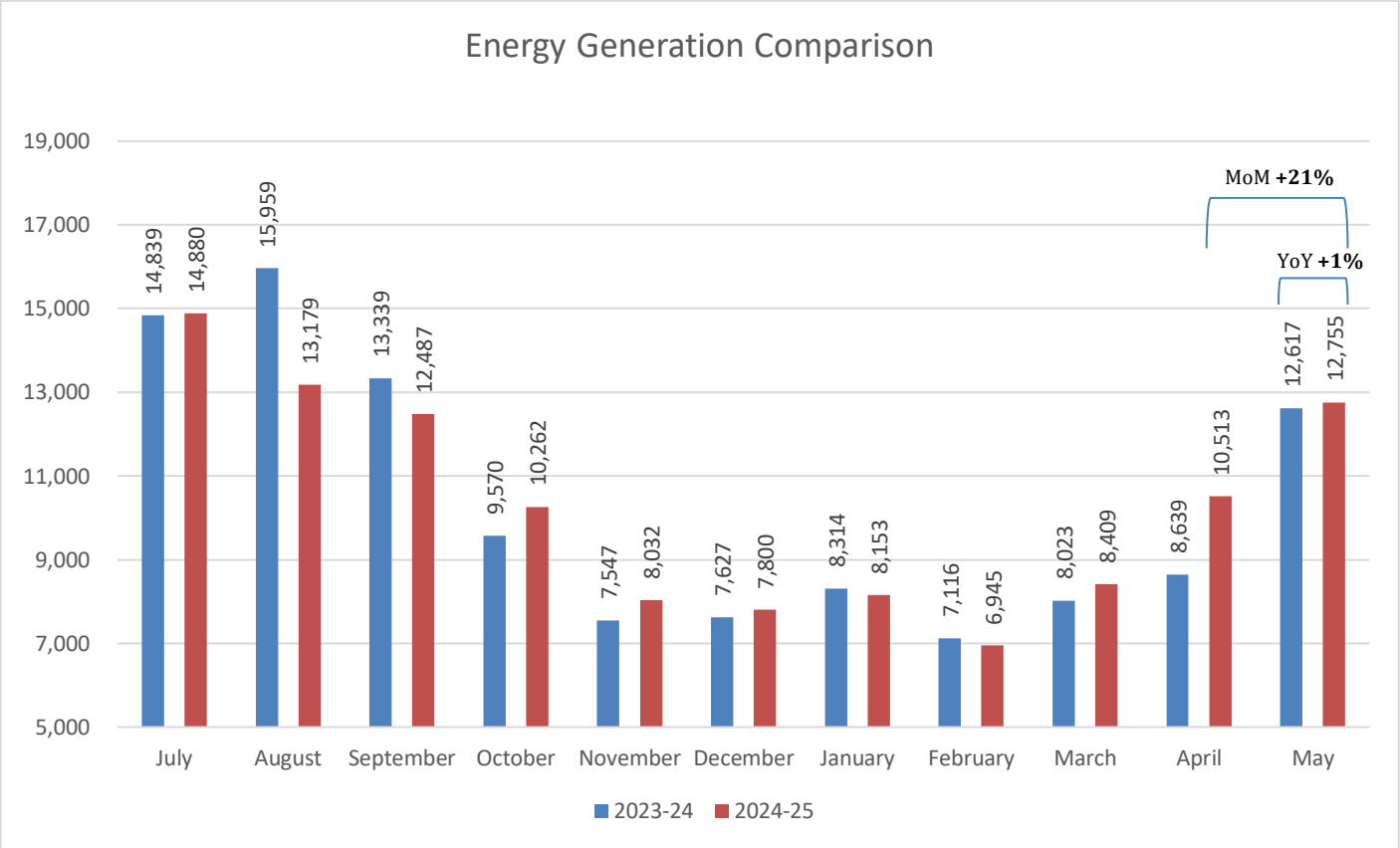
- **Partial Loading Adjustment Charges (PLAC): April 25** Rs. 2.9 billion, **FY25** : 32.8 billion
- **Guddu 747 Open Cycle Energy:** 186 GWh, **Fin. Impact Guddu 747 OC:** Rs. 670 million
- **Major Forced Outages:** Neelum Jhelum, Punjab Thermal, K-3
- **Fin. Impact: 953 million** due to system constraints (South North constraints, curtailment of imported coal plants in south and operation of RLNG/RFO plants in the North)

Variation against Reference

Reference Generation (GWh)	10,550
Actual Generation (GWh)	10,513
Energy Sold (GWh)	10,196
Reference Fuel Price (Rs. Mln)	78,556
Actual Fuel Price (Rs. Mln)	104,287
Fuel Price Chargeable (Rs. Mln)	91,243
Reference. Rate (Rs./KWh)	7.68
Avg. Rate (Rs./KWh)	8.94
FCA Claim Current month (Rs./KWh)	**1.27**

Monthly M&E Report: May 25

Date: May 27, 2025



Details at Annex-A

Generation Break-Up and Comparative Analysis

- The table below provides an overview of energy generation by source, comparing May 2025 against May 2024 and July 2023 to May 2024 (FY 2023-24) versus same period for FY 2024-25:

Source	*May 24 (GWh)*	*May 25 (GWh)*	*YoY Change (%)*	*Apr 25 (GWh)*	*MoM Change (%)*	*11M FY24 (GWh)*	*11M FY25 (GWh)*	*YoY Change (%)*
Bagasse	57	34	-40%	37	-8%	667	635	-5%
Coal- Imported	383	796	108%	1,054	-24%	4,386	7,668	75%
Coal- Local	1,372	1,413	3%	1,525	-7%	13,706	14,038	2%
Gas	1,110	883	-20%	842	5%	10,274	10,251	0%
HSD	-	-	-	-	-	108	-	-
Hydel	3,906	4,844	24%	2,306	110%	35,144	34,563	-2%
Import from Iran	50	36	-28%	32	13%	330	407	23%
Nuclear	2,360	2,012	-15%	1,882	7%	21,156	21,069	0%
RFO	62	20	-68%	83	-76%	2,164	368	-83%
RLNG	2,748	2,168	-21%	2,157	1%	21,319	20,014	-6%
Solar	125	116	-7%	115	1%	911	1,080	19%
Wind Power	445	433	-3%	478	-9%	3,425	3,321	-3%
Total	12,617	12,755	**1%**	**10,513**	**21%**	**113,590**	**113,415**	**0%**

Item	May 24	May 25	YoY Change (%)	Apr 25	MoM Change (%)
PLAC (Rs. Mln)	4,196	4,419	*5%*	2,920	*51%*

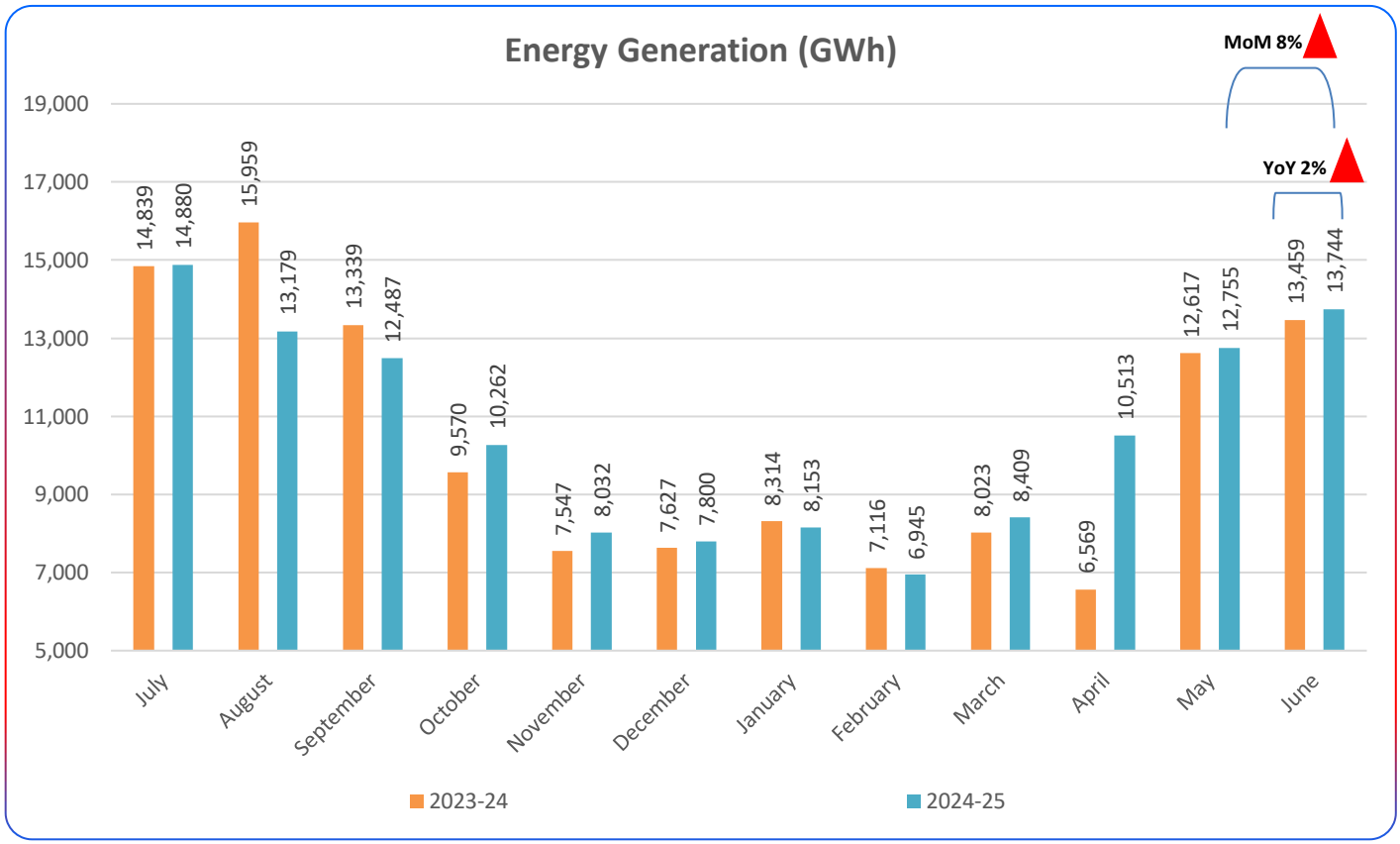
- **Partial Loading Adjustment Charges (PLAC): April 25** Rs. 4.4 billion, **FY25** : 37.2 billion
- **Guddu 747 Open Cycle Energy:** 153 GWh, **Fin. Impact Guddu 747 OC:** Rs. 551 million
- **Major Outages:** Neelum Jhelum, Punjab Thermal, K-2
- **Fin. Impact: 591 million** due to system constraints (South North constraints, curtailment of imported coal plants in south and operation of RLNG/RFO plants in the North)

Variation against Reference

Reference Generation (GWh)	12,966
Actual Generation (GWh)	12,755
Energy Sold (GWh)	12,367
Reference Fuel Price (Rs. Mln)	92,927
Actual Fuel Price (Rs. Mln)	99,153
Fuel Price Chargeable (Rs. Mln)	94,394
Reference. Rate (Rs./KWh)	7.39
Avg. Rate (Rs./KWh)	7.49
FCA Claim Current month (Rs./KWh)	**0.1015**

Monthly M&E Report: June 25 XWAPDA DISCOs

Date: July 28, 2025



Details at Annex-A

Generation Break-Up and Comparative Analysis

- The table below provides an overview of energy generation by source, comparing June 2025 against June 2024 and FY 2023-24 versus the FY 2024-25:

Source	Jun 24	Jun 25	YoY Change	May 25	MoM Change	FY23-24	FY24-25	YoY Change
	GWh	GWh	%	GWh	%	GWh	GWh	%
Bagasse	60	35	**-41%**	34	4%	727	670	**-8%**
Coal- Imported	637	1,397	**119%**	796	75%	5,023	9,065	**80%**
Coal- Local	1,489	1,510	**1%**	1,413	7%	15,195	15,548	**2%**
Gas	1,166	968	**-17%**	883	10%	11,440	11,219	**-2%**
HSD	-	-	**-**	-	-	108	0	**-100%**
Hydel	4,729	5,410	**14%**	4,844	12%	39,872	39,973	**0%**
Import from Iran	48	47	**-1%**	36	30%	378	454	**20%**
Nuclear	1,998	1,383	**-31%**	2,012	-31%	23,155	22,452	**-3%**
RFO	263	151	**-43%**	20	652%	2,427	519	**-79%**
RLNG	2,437	2,216	**-9%**	2,168	2%	23,755	22,229	**-6%**
Solar	118	106	**-10%**	116	-8%	1,029	1,186	**15%**
Wind	516	522	**1%**	433	21%	3,941	3,843	**-2%**
Total	**13,459**	**13,744**	**2%**	**12,755**	**8%**	**127,049**	**127,159**	**0%**

Partial Loading Adjustment Charges (PLAC)

Jun 24	Jun 25	YoY Change	May 25	MoM Change
Rs. Mln	Rs. Mln	%	Rs. Mln	%
4,883	4,078	**-16%**	4,419	**-8%**

- **Partial Loading Adjustment Charges (PLAC): June 25** Rs. 4.1 billion, **FY24-25**: 41.2 billion
- **Guddu 747 Open Cycle Energy: 231** GWh, **Fin. Impact Guddu 747 OC:** Rs. 827 million, **FY24-25:** Rs. 8.5 billion
- **Major Forced Outages:** Neelum Jhelum, Punjab Thermal, Guddu 747 (Steam Turbine Issue)
- **Fin. Impact: 201 million** due to system constraints (South North constraints, curtailment of imported coal plants in south and operation of RLNG/RFO plants in the North), **FY24-25:**

Variation against Reference

Reference Generation	GWh	14,586
Actual Generation	GWh	13,744
Energy Sold	GWh	13,310
Reference Fuel Price	Rs. Million	117,865
Actual Fuel Price	Rs. Million	108,166
Fuel Price Chargeable	Rs. Million	102,220
Reference. Rate	Rs./kWh	8.33
Avg. Rate	Rs./kWh	7.68
FCA Claim Current month	**Rs./kWh**	**(0.65)**

Prepared by M&E

Energy Mix/Price Mix

Month	July 2023				July 2024				June 2024			
Category	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total
Energy (GWh)	**958**	772	167	1,897	**1,076**	783	152	2,011	**956**	723	165	1,843
Fuel Price (Rs. Mln)	23,413	6,464	3,705	33,582	28,449	7,080	2,839	38,368	25,580	6,591	2,692	34,863
Av. Per Unit Price (Rs./kWh)	24.44	8.37	22.24	17.71	26.44	9.04	18.73	19.08	26.77	9.12	16.35	18.92
Energy Mix (%)	51%	41%	9%	100%	54%	39%	8%	100%	52%	39%	9%	100%
Fuel Price Mix (%)	70%	19%	11%	100%	74%	18%	7%	100%	73%	19%	8%	100%

Category wise Sales Mix (GWh)

Category	Jul-23	Jul-24	YoY Change (%)
	Units (GWh)	Units (GWh)	
Residential & Commercial	1,394	1,477	6%
EHT & Industrial	391	410	5%
Strategic	109	120	10%
Import (Net metering)	3	4	40%
Total	**1,897**	**2,011**	6%

Fuel Cost Adjustment - Variation	PKR / KWh	3.09
Fuel Cost Adjustment - Amount	PKR Mn	**6,206**

Monthly M&E Report: KE Aug 2024

Prepared by M&E

Energy Mix/Price Mix

Month	Aug 2023				Aug 2024				July 2024			
Category	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total
Energy (GWh)	**800**	753	134	1,687	**806**	755	119	1,680	**1,076**	783	152	2,011
Fuel Price (Rs. Mln)	18,955	6,307	2,836	28,098	19,460	6,657	1,606	27,724	28,449	7,080	2,839	38,368
Av. Per Unit Price (Rs./kWh)	23.70	8.37	21.19	16.66	24.14	8.81	13.56	16.50	26.44	9.04	18.73	18.92
Energy Mix (%)	47%	45%	8%	100%	48%	45%	7%	100%	57%	41%	8%	100%
Fuel Price Mix (%)	67%	22%	10%	100%	70%	24%	6%	100%	74%	18%	7%	100%

Category wise Sales Mix (GWh)

Category	Aug-23	Aug-24	YoY Change (%)	Jul-24	MoM Change (%)
	Units (GWh)	Units (GWh)		Units (GWh)	
Residential & Commercial	1,140	1,177	3%	1,477	-20%
EHT & Industrial	442	400	-10%	410	-3%
Strategic	104	102	-2%	120	-15%
Import (Net metering)	1	0.941	-34%	4	-74%
Total	**1,687**	**1,680**	0%	**2,011**	-16%

Fuel Cost Adjustment - Variation	PKR / KWh	0.51
Fuel Cost Adjustment - Amount	PKR Mn	**853**

Monthly M&E Report: KE Sep 2024

Prepared by M&E

Energy Mix/Price Mix

Month	Sep 2023				Sep 2024				Aug 2024			
Category	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total
Energy (GWh)	**762**	711	194	1,667	**720**	734	117	1,571	**806**	755	119	1,680
Fuel Price (Rs. Mln)	17,099	6,290	1,485	24,874	19,460	6,657	1,606	27,724	19,460	6,657	1,606	27,724
Av. Per Unit Price (Rs./kWh)	24.17	7.49	27.00	17.39	23.76	8.57	12.65	15.84	24.14	8.81	13.56	16.50
Energy Mix (%)	46%	43%	12%	100%	46%	47%	7%	100%	48%	45%	7%	100%
Fuel Price Mix (%)	64%	18%	18%	100%	69%	25%	6%	100%	70%	24%	6%	100%

Category wise Sales Mix (GWh)

Category	Sep-23	Sep-24	YoY Change (%)	Aug-24	MoM Change (%)
	Units (GWh)	Units (GWh)		Units (GWh)	
Residential & Commercial	1,118	1,084	-3%	1,177	-8%
EHT & Industrial	445	382	-14%	400	-4%
Strategic	102	101	0%	102	-1%
Import (Net metering)	2	4	65%	0.941	300%
Total	**1,667**	**1,571**	-6%	**1,680**	-7%

Fuel Cost Adjustment - Variation	PKR / KWh	(0.16)
Fuel Cost Adjustment - Amount	PKR Mn	**(247)**

Monthly M&E Report: KE Oct 2024

Prepared by M&E

Energy Mix/Price Mix

Month	Oct 2023				Oct 2024				Sep 2024			
Category	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total
Energy (GWh)	**744**	711	231	1,686	**802**	791	120	1,714	**720**	734	117	1,571
Fuel Price (Rs. Mln)	20,922	7,859	5,765	34,546	18,053	7,327	1,568	26,947	19,460	6,657	1,606	27,724
Av. Per Unit Price (Rs./kWh)	28.12	11.05	25.00	20.49	22.51	9.26	13.03	15.73	23.76	8.57	12.65	15.84
Energy Mix (%)	44%	42%	14%	100%	47%	46%	7%	100%	46%	47%	7%	100%
Fuel Price Mix (%)	61%	23%	17%	100%	67%	27%	6%	100%	69%	25%	6%	100%

Category wise Sales Mix (GWh)

Category	Oct-23	Oct-24	YoY Change (%)	Sep-24	MoM Change (%)
	Units (GWh)	Units (GWh)		Units (GWh)	
Residential & Commercial	1,142	1,188	4%	1,084	10%
EHT & Industrial	439	413	-6%	382	8%
Strategic	102	106	4%	101	5%
Import (Net metering)	3	6	82%	4	68%
Total	**1,686**	**1,714**	2%	**1,571**	9%

Fuel Cost Adjustment - Variation	PKR / KWh	(0.27)
Fuel Cost Adjustment - Amount	PKR Mn	**(461)**

Prepared by M&E

Energy Mix/Price Mix

Month	November 2024			November 2023			October 2024		
Category	KE Own	NTDC /IPPs	Nov-24 Total	KE Own	NTDC /IPPs	Nov-23 Total	KE Own	NTDC /IPPs	Oct-24 Total
Energy (GWh)	368	1,072	**1,442**	459	844	**1,303**	802	912	**1,714**
Price (Rs. Mln)	7,829	8,059	**15,888**	13,810	9,337	**23,147**	18,053	8,895	**26,947**
Per Unit Price (Rs. / kWh)	21.27	7.52	**11.02**	30.06	11.07	**17.77**	22.51	9.76	**15.73**
Energy Mix (%)	26%	74%	100%	35%	65%	100%	47%	53%	100%
Fuel Price Mix (%)	49%	51%	100%	60%	40%	100%	67%	33%	100%

Category wise Sales Mix (GWh)

Category	Nov-24		Nov-23			Oct-24		
	Units (GWh)	% of Total	Units (GWh)	% of Total	YoY Change (%)	Units (GWh)	% of Total	MoM Change
Residential & Commercial	897	62%	817	63%	10%	1,178	69%	-24%
EHT	40	3%	62	5%	-35%	34	2%	18%
Industrial	302	21%	323	25%	-7%	375	22%	-19%
Strategic	189	13%	90	7%	110%	107	6%	77%
Import (Net metering)	20	1%	12	1%	67%	22	1%	-9%
Total	**1,448**	**100%**	**1,304**	**100%**	**11%**	**1,716**	**100%**	**-16%**

Fuel Cost Adjustment - Variation	PKR / KWh	(4.98)
Fuel Cost Adjustment - Amount	PKR Mn	**(7,179)**

Monthly M&E Report: KE December 2024

Prepared by M&E

Energy Mix/Price Mix

Month	December 2024				December 2023				November 2024			
Category	KE Own	NTDC	IPPs	Dec-24 Total	KE Own	NTDC	IPPs	Dec-23 Total	KE Own	NTDC	IPPs	Nov-24 Total
Energy (GWh)	188	741	70	999	264	709	97	1,070	370	967	105	1,442
Fuel Price (Rs. Mln)	3,503	7,113	415	11,031	9,704	7,110	1,150	17,964	7,829	6,992	1,067	15,888
Av. Per Unit Price (Rs./kWh)	18.63	9.60	5.93	11.04	36.76	10.03	11.86	16.79	21.16	7.23	10.16	11.02
Energy Mix (%)	19%	74%	7%	100%	25%	66%	9%	100%	26%	67%	7%	100%
Fuel Price Mix (%)	32%	64%	4%	100%	54%	40%	6%	100%	49%	44%	7%	100%

Category wise Sales Mix (GWh)

Category	Dec-23	Dec-24	YoY Change (%)	Nov-24	MoM Change (%)
	Units (GWh)	Units (GWh)		Units (GWh)	
Residential & Commercial	613	567	-7.5	954	-41
EHT & Industrial	367	346	-5.7	383	-9.7
Strategic	78	72	-7.4	91	-20.9
Import (Net metering)	12	15	55.4	20	-7.4
Total	**1,069**	**999**	**-6.6**	**1,448**	**-30.7**

Fuel Cost Adjustment - Variation	PKR / KWh	(4.95)
Fuel Cost Adjustment - Amount	PKR Mn	(4,940)

Monthly M&E Report: KE January 2025

Prepared by M&E

Energy Mix/Price Mix

Month	January 2025				January 2024				December 2024			
Category	KE Own	NTDC	IPPs	Jan 25 Total	KE Own	NTDC	IPPs	Jan 24 Total	KE Own	NTDC	IPPs	Nov-24 Total
Energy (GWh)	42	871	57	970	271	684	99	1,053	188	741	70	999
Energy Mix (%)	4.33%	89.79%	5.88%	100%	25.74%	64.96%	9.40%	100%	19%	74%	7%	100%
Fuel Price (Rs. Mln)	1,001	9,592	218	10,812	8,497	9,982	3,373	21,852	3,503	7,113	415	11,031
Fuel Price Mix (%)	9.26%	88.72%	2.02%	100%	38.88%	45.68%	15.44%	100%	32%	64%	4%	100%
Av. Per Unit Price (Rs. / kWh)	23.83	11.01	3.82	11.15	31.35	14.59	34.07	20.75	18.63	9.60	5.93	11.04

NTDC Drawl:

- Max: 1,565 MW
- Min: 401 MW
- Average: 1,163 MW (73% average utilization out of 1600 MW)

Fuel Cost Adjustment - Variation	PKR / KWh	(4.84)
Fuel Cost Adjustment - Amount	PKR Mn	(4,695)

Monthly M&E Report: KE February 2025

Prepared by M&E

NTDC Drawl:

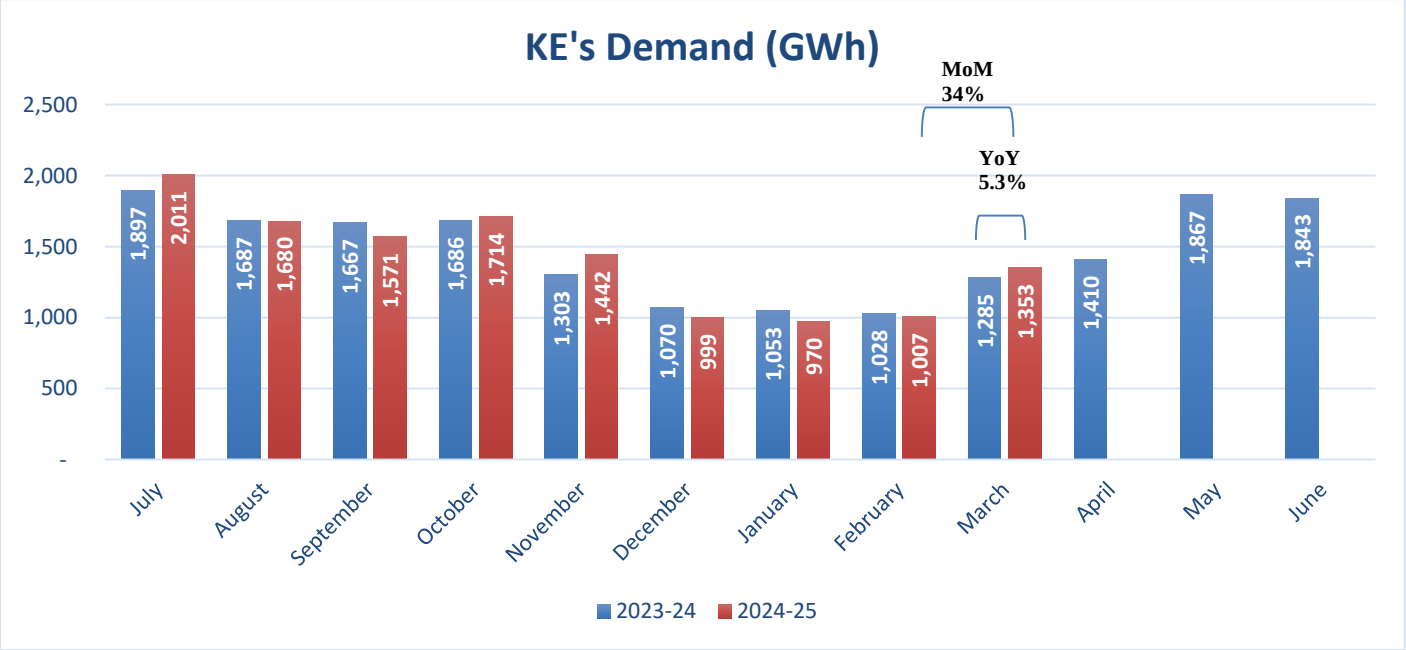
- Max: 1,646 MW
- Min: 556 MW
- Average: 1,214 MW (76% average utilization out of 1600 MW)

Month	February 2025				February 2024				January 2025			
Category	KE Own	NTDC	IPPs	Feb 25 Total	KE Own	NTDC	IPPs	Feb 24 Total	KE Own	NTDC	IPPs	Jan 25 Total
Energy (GWh)	119	822	65	1,007	328.74701	613.887	85.805419	1,028	42	871	57	970
Energy Mix (%)	11.86%	81.67%	6.47%	100%	31.97%	59.69%	8.34%	100%	4.33%	89.79%	5.88%	100%
Fuel Price (Rs. Mln)	2,390	6,766	285	9,441	7,935	5,778	1,788	15,500	1,001	9,592	218	10,812
Fuel Price Mix (%)	25.31%	71.67%	3.02%	100%	51.19%	37.28%	11.53%	100%	9.26%	88.72%	2.02%	100%
Av. Per Unit Price (Rs./ kWh)	20.01	8.23	4.37	9.38	24.14	9.41	20.84	15.07	23.83	11.01	3.82	11.15

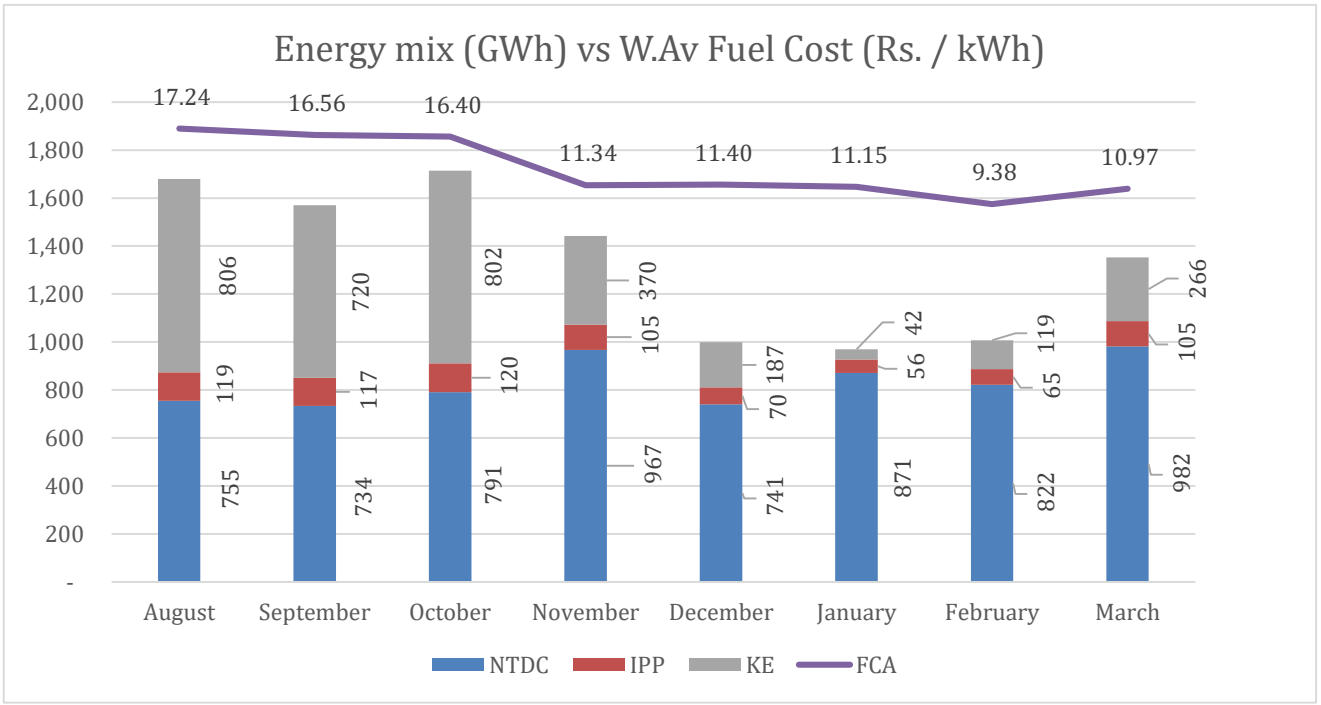
Fuel Cost Adjustment - Variation	PKR / KWh	(6.62)
Fuel Cost Adjustment - Amount	PKR Mn	(6,662)

Monthly M&E Report: KE March 2025

Prepared by M&E



Energy Mix/Price Mix



NTDC Drawl:

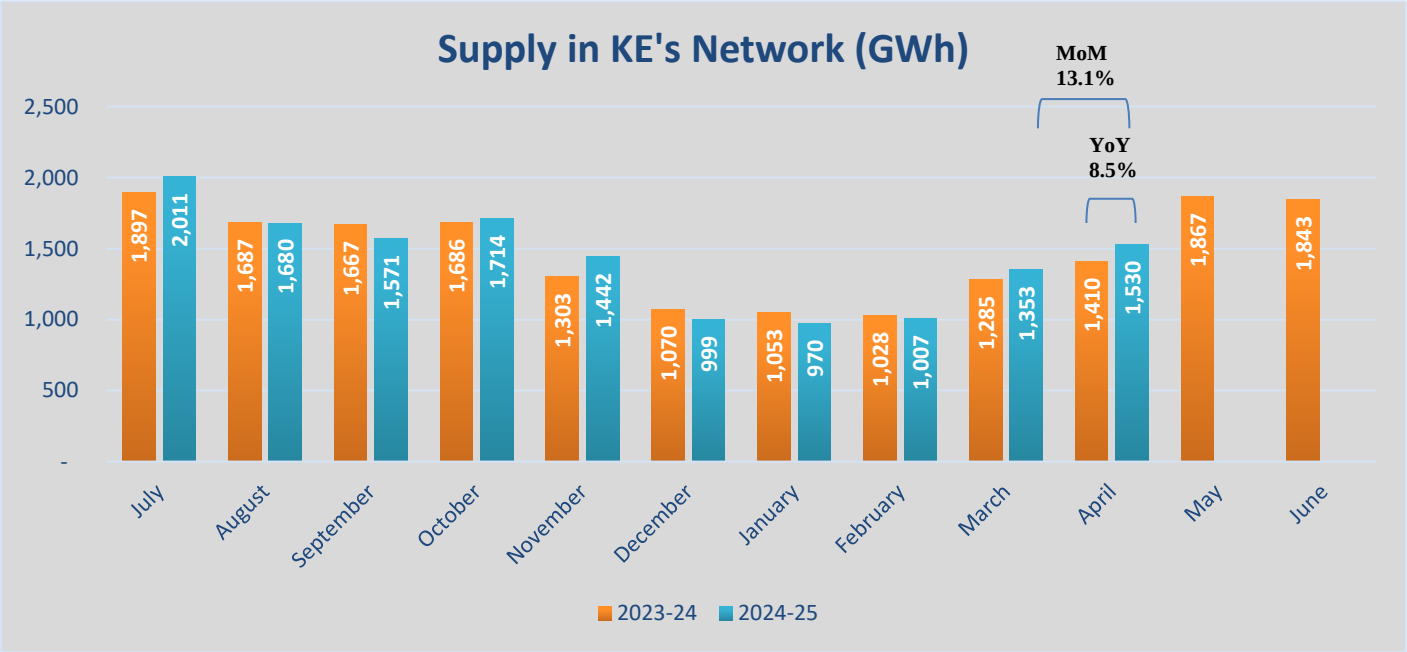
- Max: 1,700 MW
- Min: 511 MW
- Average: 1,312 MW (82% average utilization out of 1600 MW)

Month	March 2025				March 2024				February 2025			
Category	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total
Energy (GWh)	266	982	105	1,353	460	703	122	1,285	119	822	65	1,007
Energy Mix (%)	19.66%	72.58%	7.76%	100%	35.80%	54.71%	9.49%	100.00%	11.86%	81.67%	6.47%	100%
Fuel Price (Rs. Mln)	5,002	9,058	789	14,850	10,109	6,588	2,159	18,856	2,390	6,766	285	9,441
Fuel Price Mix (%)	33.68%	61.00%	5.31%	100.00%	53.61%	34.94%	11.45%	100.00%	25.31%	71.67%	3.02%	100%
Av. Per Unit Price (Rs. / kWh)	18.80	9.22	7.51	10.98	21.98	9.37	17.70	14.67	20.01	8.23	4.37	9.38

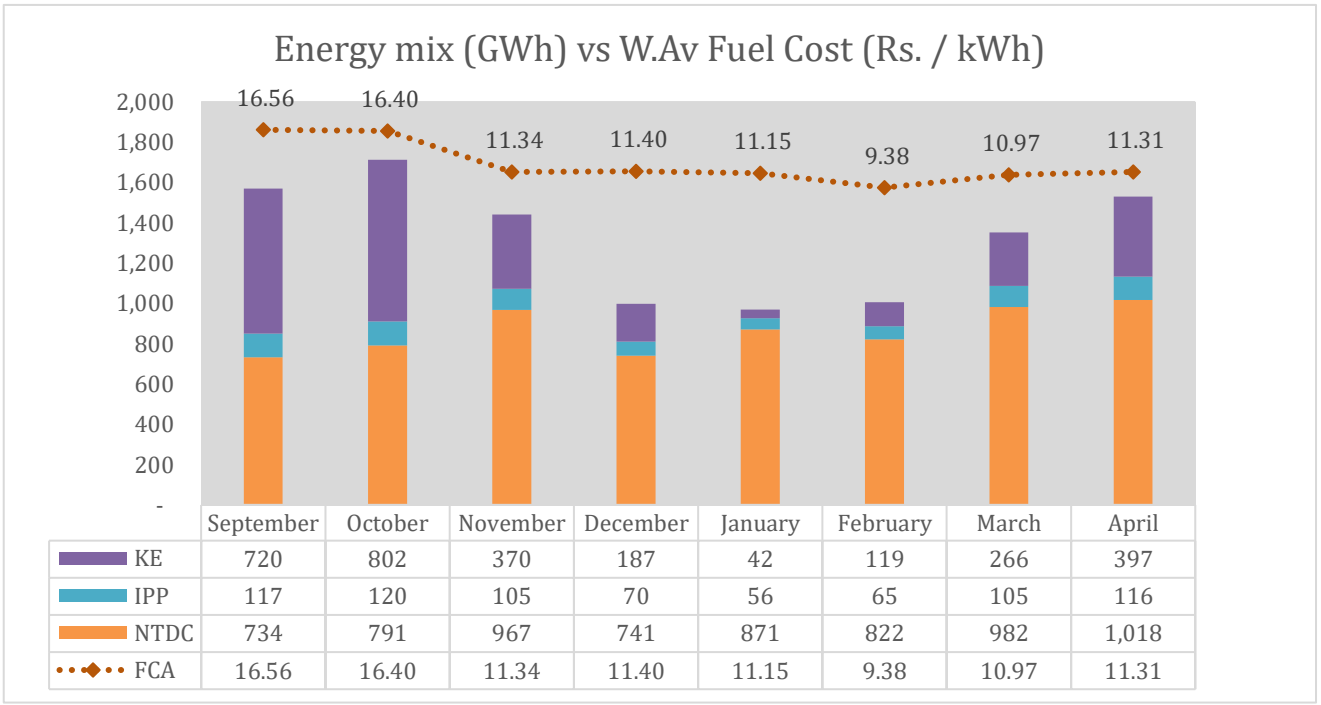
Category wise Sales Mix (GWh)

Category	Mar 24	Mar 25	YoY Change (%)	Feb 25	MoM Change (%)
	Units (GWh)	Units (GWh)		Units (GWh)	
Residential & Commercial	795	883	11%	586	50.7%
EHT & Industrial	391	371	-5.1%	333	11.4%
Strategic	82	83	1.3%	68	21.6%
Import (Net metering)	17	17	-1.8%	20	-16
Total	**1,285**	**1,353**	**5.3%**	**1,006**	**34.4%**

Fuel Cost Adjustment - Variation	PKR / KWh	(5.02)
Fuel Cost Adjustment - Amount	PKR Mn	**(6,792)**



Energy Mix/Price Mix



	September	October	November	December	January	February	March	April
KE	720	802	370	187	42	119	266	397
IPP	117	120	105	70	56	65	105	116
NTDC	734	791	967	741	871	822	982	1,018
FCA	16.56	16.40	11.34	11.40	11.15	9.38	10.97	11.31

NTDC Drawl:

- Max: 1,862 MW
- Min: 563 MW
- Average: 1,014 MW (63% average utilization out of 1600 MW)

Month	Apr 2025				Apr 2024				Mar 2025			
Category	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total	KE Own	NTDC	IPPs	Total
Energy (GWh)	397	1,018	116	1,530	580	710	119	1,410	266	982	105	1,353
Energy Mix (%)	26%	67%	8%	100%	41%	50%	8%	100%	19.66%	72.58%	7.76%	100%
Fuel Price (Rs. Mln)	7,345	9,081	884	17,311	12,690	6,365	1,690	20,745	5,002	9,058	789	14,850
Fuel Price Mix (%)	42%	52%	5%	100%	61%	31%	8%	100%	33.68%	61.00%	5.31%	100.00%
Av. Per Unit Price (Rs. / kWh)	18.50	8.92	7.62	11.31	21.88	8.96	14.20	14.71	18.80	9.22	7.51	10.98

Category wise Sales Mix (GWh)

Category	Apr 24	Apr 25	YoY Change (%)	Mar 25	MoM Change (%)
	Units (GWh)	Units (GWh)		Units (GWh)	
Residential & Commercial	979	1,030	5%	883	17%
EHT & Industrial	326	383	18%	371	3%
Strategic	87	89	2%	83	7%
Import (Net metering)	19	29	55%	17	72%
Total	1,411	1,531	9%	1,353	13%

Fuel Cost Adjustment - Variation	PKR / KWh	(4.69)
Fuel Cost Adjustment - Amount	PKR Mn	(7,173)

Major Observations

- RLNG demanded by KE for April 2025 was 2,520 MMSCF, whereas, the actual consumption was 2,536 MMSCF indicating slightly higher utilization than forecasted.'
- The PLAC for BQPS-III is as follows:

Description	Partial Load Adjustment Charges (Rs. Mn.)
BQPS-III Unit-10	266
BQPS-III Unit-20	327
Total	**593**

- M&E's analysis revealed that out of the total 720 hours of the month, there were **218 such hours where the entire system** of KE was running on minimum technical loading in entire fleet. And there were **334 hours** where BQPS-III Units 1 and 2 were operating at minimum load simultaneously.