

# Pakistan Power Sector

## Power generation rose by a meagre 0.3% YoY in Jul'24

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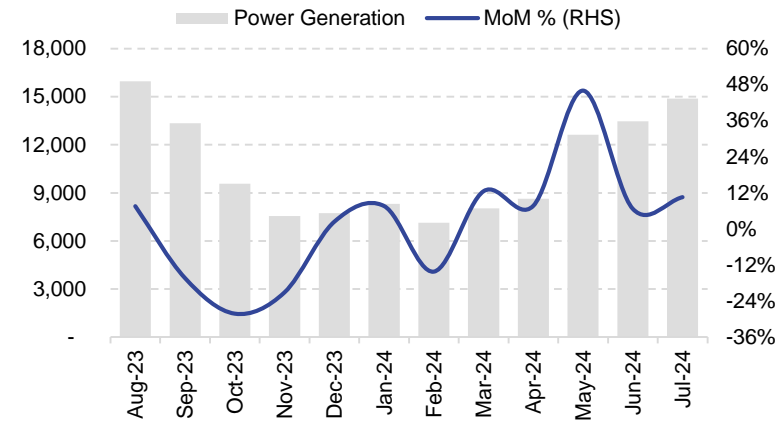
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- In the first month of FY25 power generation slightly increased by 0.3% YoY to arrive at 14,880 GWh (20,000 MW) during Jul'24, compared to 14,839 GWh (19,945MW) during SPLY. Moreover, on MoM basis power generation climbed by 10.5%.
- During Jul'24, the actual power generation was 10% lower than the reference generation. This decline in generation is expected to result in increase in QTA, which will be borne by customers in their electricity bills from Oct'24 to Dec'24.
- In Jul'24, fuel cost for power generation rose by 7.4% YoY to an average of PKR 8.96/KWh compared with an average cost of PKR 8.34/KWh during SPLY. The jump in fuel cost is primarily attributed to higher cost of generation from local coal (+49.2 YoY), RFO (+7.8%), RLNG (+1.9% YoY).
- Moreover, the generation of power from relatively economical sources was reduced, with hydel and nuclear decreasing by 3.2% YoY, and 5.6% YoY respectively. Furthermore, it is pertinent to note that, on MoM basis fuel costs increased by 4.0%.
- The load factor of CPHGC arrived at 6% during Jul'24, as compared to 16% in SPLY. The load factor of TEL and TNPL settled at 78% and 79% during Jul'24, respectively, and the overall load factor of local coal-based plants came at 77%.
- Hydel-based generation dropped by 3.2% YoY to 5,341 GWh in Jul'24. Despite a 25.3% YoY increase in WAPDA's output, reaching 4,748 GWh, the absence of dispatches from Tarbela contributed to the overall decline in hydel generation during the month.

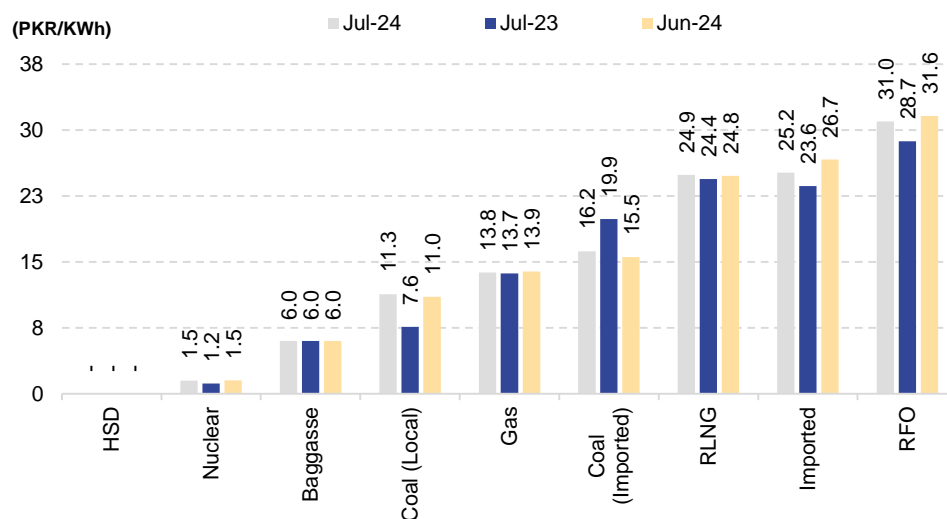
**Figure: Monthly Trend of Power Generation**



Source (s): NEPRA, AHL Research

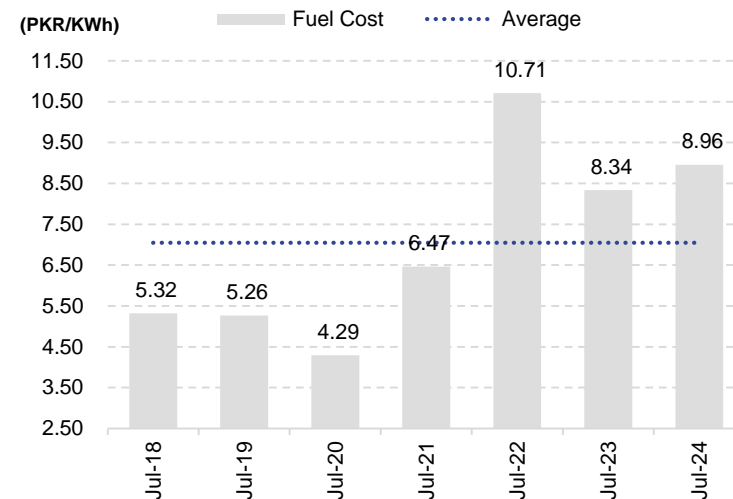
- The cost of power generation arrived at PKR 8.96/KWh during Jul'24, while including transmission losses and previous adjustments, the fuel cost increased to PKR 9.04/KWh.
- As a result of this, there is a projected fall of PKR 0.31/KWh in fuel charge adjustment which will be charged to customers in the Sep'24 bills. This Fuel cost adjustment is forecasted to decrease the inflation by 16bps in Oct'24.

**Figure:** Source wise fuel cost during Jul'24, Jul'23 and Jul'24



Source (s): NEPRA, AHL Research

**Figure:** Historical Trend of Fuel Cost during Jul



Source (s): NEPRA, AHL Research

# Pakistan Power Sector Fuel Cost Trend

**Exhibit: Source wise Fuel Cost**

	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24
<b>PKR/KWh</b>													
RFO	28.73	33.32	37.05	38.70	46.71	38.55	35.44	-	-	-	31.45	31.60	30.97
Imported	23.62	25.10	23.80	23.17	27.73	33.13	32.80	27.20	30.37	27.45	26.09	26.65	25.16
RLNG	24.43	23.71	24.19	23.70	23.72	26.22	24.30	22.03	22.19	22.13	24.01	24.78	24.89
Coal (Imported)	19.86	20.14	15.79	13.27	14.53	17.25	21.05	20.02	-	22.84	16.82	15.53	16.20
Gas	13.68	13.22	13.52	13.61	14.62	14.60	13.75	12.38	13.69	13.25	13.20	13.90	13.79
Coal (Local)	7.59	7.01	7.62	12.10	15.27	12.33	11.92	14.19	16.78	15.83	11.71	11.02	11.33
Baggasse	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98	5.98
Nuclear	1.17	1.17	1.20	1.23	1.21	1.32	1.33	1.32	1.55	1.53	1.53	1.52	1.48
HSD	-	-	-	-	-	42.15	45.61	-	-	-	-	-	-
Mixed	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydel	-	-	-	-	-	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>8.34</b>	<b>8.27</b>	<b>7.42</b>	<b>8.26</b>	<b>7.17</b>	<b>10.13</b>	<b>13.79</b>	<b>8.70</b>	<b>8.31</b>	<b>9.21</b>	<b>8.74</b>	<b>8.61</b>	<b>8.96</b>
<b>PKR mn</b>													
RFO	8,461	21,632	8,914	3	13	6,485	26,593	-	-	-	1,947	8,311	3,161
Imported	681	658	577	522	824	934	954	698	862	1,028	1,317	1,291	1,202
RLNG	71,293	64,992	51,467	45,946	18,926	33,250	36,792	31,934	36,804	47,736	65,999	60,399	73,908
Coal (Imported)	13,938	14,489	10,173	4,461	7,057	6,619	12,126	2,728	-	480	6,442	9,893	18,422
Gas	15,440	16,043	13,592	9,576	10,157	12,061	14,235	9,743	10,881	12,921	14,648	16,206	16,279
Coal (Local)	11,226	11,478	11,270	16,147	15,078	16,148	16,366	14,099	14,459	13,941	16,062	16,405	17,061
Baggasse	239	226	206	172	160	606	636	601	470	338	344	362	319
Nuclear	2,458	2,392	2,738	2,241	1,897	1,926	2,295	2,194	3,205	3,133	3,616	3,036	2,943
HSD	-	-	-	-	-	266	4,642	-	-	-	-	-	-
Mixed	-	-	-	-	-	-	-	-	-	-	-	-	-
Hydel	-	-	-	-	-	-	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>123,736</b>	<b>131,911</b>	<b>98,938</b>	<b>79,067</b>	<b>54,111</b>	<b>78,295</b>	<b>114,639</b>	<b>61,997</b>	<b>66,679</b>	<b>79,578</b>	<b>110,376</b>	<b>115,902</b>	<b>133,295</b>

Source (s): NEPRA, AHL Research

# Pakistan Power Sector

## Fuel Cost Trend

**Exhibit:** Load Factor of Major Power Plants

	Capacity (MW)	Jul-24 Generation*	Load Factor	Jun-24 Generation*	Load Factor	Jul-23 Generation*	Load Factor
<b>RLNG Power Plants</b>							
QATPL	1,180	605	69%	358	42%	414	47%
Haveli Bahadur Shah	1,230	694	76%	649	73%	714	78%
Balloki	1,223	614	67%	585	66%	651	72%
Punjab Thermal Power	1,320	480	49%	455	48%	596	60.6%
<b>RLNG Total</b>	<b>4,953</b>	<b>2,393</b>	<b>65%</b>	<b>2,047</b>	<b>57%</b>	<b>2,375</b>	<b>64%</b>
<b>Imported Coal Power Plants</b>							
Sahiwal Power Plant	1,320	465	47%	-	0%	149	15%
Port Qasim Power Plant	1,320	566	58%	62	0	79	8%
China Power Hub Generation	1,320	62	6%	3	0	160	16%
Lucky Electric Power Co. Ltd.	660	43	9%	186	0	313	64%
<b>Imported Coal Total</b>	<b>4,620</b>	<b>1,137</b>	<b>33%</b>	<b>251</b>	<b>8%</b>	<b>702</b>	<b>20%</b>
<b>Local Coal Power Plants</b>							
Engro PowerGen Thar	660	384	78%	369	78%	346	71%
Thar Energy Ltd.	330	190	78%	154	65%	208	85%
Thar Coal Block-1 Power Gen Company	1,320	738	75%	802	84%	723	74%
ThalNova Power Thar	330	194	79%	164	69%	201	82%
<b>Local Coal Total</b>	<b>2,640</b>	<b>1,506</b>	<b>77%</b>	<b>1,489</b>	<b>78%</b>	<b>1,478</b>	<b>75%</b>
<b>Nuclear Power Plants</b>							
Chashma Nuclear	300	221	99%	212	98%	193	86%
Chashma Nuclear-II	315	-	0%	122	54%	229	98%
Chashma Nuclear-III	340	230	91%	218	89%	-	0%
Chashma Nuclear-IV	340	125	49%	223	91%	215	85%
Karachi Nuclear Power Plant-2	1,140	651	77%	605	1	727	86%
Karachi Nuclear Power Plant-3	1,145	761	89%	619	75%	743	87%
<b>Nuclear Total</b>	<b>3,580</b>	<b>1,988</b>	<b>75%</b>	<b>1,998</b>	<b>78%</b>	<b>2,107</b>	<b>79%</b>
<b>Major Listed IPPs</b>							
KAPCO	1,336	-	-	-	-	-	-
HUBC (Hub Plant)	1,281	-	-	-	-	-	-
HUBC (Narowal Plant)	214	8	5%	21	14%	7	4%
NPL	195	23	16%	69	0	49	34%
NCPL	196	8	5%	34	0	37	26%
KOHE	124	17	18%	28	0	27	30%
LPL	350	-	0%	44	0	63	24%
PKGP	345	2	1%	-	-	33	13%
ALTN (Rousch)	395	44	15%	-	-	-	0%
ALTN (Altern)	27	-	0%	-	-	-	0%
SPWL	204	46	30%	16	11%	70	46%
EPQL	213	68	43%	74	48%	77	49%

Source (s): NEPRA, AHL Research, \*GWh

# Pakistan Power Sector

Power generation rose by a meagre 0.3% YoY in Jul'24

**Exhibit: Source wise Power Generation**

GW/h	Jul-24	Jul-23	YoY	Jun-24	MoM
Hydel	5,341	5,518	-3%	4,729	13%
RLNG	2,970	2,918	2%	2,437	22%
Nuclear	1,988	2,107	-6%	1,998	-1%
Coal (Local)	1,506	1,478	2%	1,489	1%
Gas	1,180	1,129	5%	1,166	1%
Coal (Imported)	1,137	702	62%	637	78%
Wind	445	549	-19%	516	-14%
Solar	110	75	46%	118	-7%
RFO	102	295	-65%	263	nm
Baggasse	53	40	33%	60	-12%
Imported	48	29	66%	48	0%
Mixed	-	-	nm	-	nm
HSD	-	-	nm	-	nm
<b>Total</b>	<b>14,879</b>	<b>14,839</b>	<b>0.3%</b>	<b>13,460</b>	<b>10.5%</b>

Fuel Cost\* 8.96 8.34 7.4% 8.61 4.0%

Source (s): NEPRA, AHL Research

**Exhibit: Source Wise Share**

	Jul-24	Jul-23	Jun-24
Hydel	35.9%	37.2%	35.1%
RLNG	20.0%	19.7%	18.1%
Nuclear	13.4%	14.2%	14.8%
Coal (Local)	10.1%	10.0%	11.1%
Gas	7.9%	7.6%	8.7%
Coal (Imported)	7.6%	4.7%	4.7%
Wind	3.0%	3.7%	3.8%
Solar	0.7%	0.5%	0.9%
RFO	0.7%	2.0%	2.0%
Baggasse	0.4%	0.3%	0.4%
Imported	0.3%	0.2%	0.4%
Mixed	0.0%	0.0%	0.0%
HSD	0.0%	0.0%	0.0%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Source (s): NEPRA, AHL Research

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