

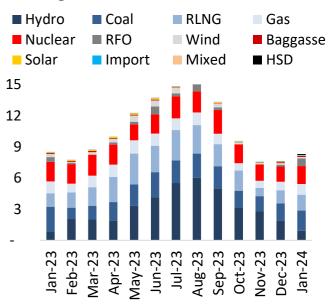
Power Generation

Power Transfer Limitations Escalates Fuel Cost in Jan-24

21 February 2024

- **Generation down 2.4% Y/Y.** In Jan-24, power production declined to 8,314 GWh (vs 8,515 GWh in Jan-23). This decrease is accredited to 1) reduced output from coal based power plants (1,949 GWh in Jan-24 vs 2,444 GWh SPLY) and 2) lesser output from nuclear power plants (1,728 GWh in Jan-24 vs 1,876 GWh SPLY). This is attributed to power evacuation constraints from south to north.
- Disco's seek FCA of PKR 7.13/KWh in Mar-24. The fuel cost for the month of Jan-24 was PKR 13.79/KWh (+23% Y/Y), still remaining above the reference cost of PKR 7.49/KWh, resulting in Disco's to pursue FCA of PKR 7.13/KWh in Mar-24. The 36.1% M/M rise is mainly on account of increased RFO based power generation mix, amid lower hydel generation and transmission constraints.
- FO power plants face high utilization in Jan-24. In Jan-24, the utilization of PKGP, LPL, and NCPL increased to 22%, 59%, and 36% respectively, leading to higher fuel losses. NEL/NPL/KOHE generated 58.6/87.9/68.0 GWh at 37/61/74% load factor resulting in fuel savings. Meanwhile, SPWL and the HUB base plant remained unutilized.
- **CPHGC remained unutilized during Jan-24.** In Jan-24, CPHGC's remained unutilized, as a result of aforementioned reasons. The load factor for TEL/TNTPL fell slightly to 75.8/77.0% vs 79.3/86.2% in the previous month.
- **Outlook.** In Feb-24, we anticipate power generation to decline, due to lower seasonal demand. Moreover, generation from gas based power plants is likely to remain low with UPL-I on ATA during the first ten days of Feb-24. Additionally, we anticipate a reduction in fuel costs as a result of the seasonal increase in hydel flows in Feb-24 compared to Jan-24, leading to increased hydropower generation.





Source: NEPRA, Optimus Research

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7MFY24 Generation Remained Largely Stable at 0.3% Y/Y

(GWh)	Jan-24	Dec-23	M/M	Jan-23	Y/Y	7MFY24	7MFY23	Y/Y
Hydel	924	1,859	-50%	800	15%	25,205	22,883	10%
Coal	1,949	1,694	15%	2,444	-20%	13,446	12,011	12%
HSD	102	6	1600%	-	n.m	108	206	-48%
RFO	750	168	346%	463	62%	2,104	3,649	-42%
Gas	1,035	826	25%	1,146	-10%	6,608	8,715	-24%
RLNG	1,514	1,268	19%	1,286	18%	13,306	11,169	19%
Nuclear	1,728	1,464	18%	1,876	-8%	13,023	14,854	-12%
Import	29	28	4%	37	-22%	189	324	-42%
Mixed	-	-	n.m	2	-100%	-	77	-100%
Wind	128	150	-15%	287	-55%	2,381	2,255	6%
Baggasse	106	101	5%	101	4%	376	418	-10%
Solar	48	62	-23%	72	-33%	474	525	-10%
Total	8,314	7,726	7.6%	8,515	-2.4%	77,296	77,085	0.3%

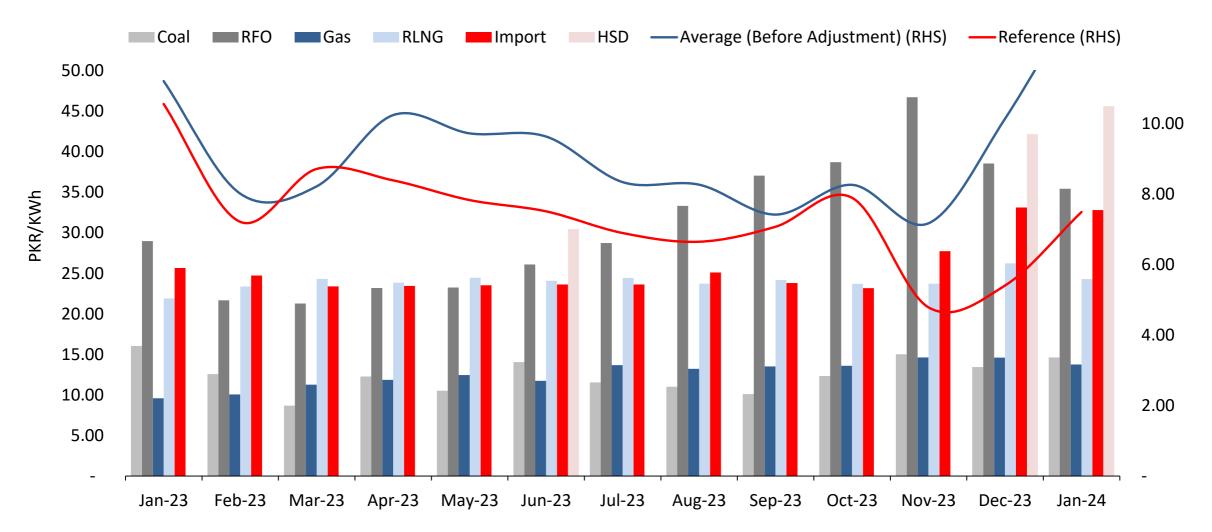
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Demanded FCA of PKR 7.13/KWh in Mar-24

	Jan-24	Dec-23	M/M	Jan-23	Y/Y
		PKR/KWh			
Hydel	-	-	0.0%	-	0.0%
Coal	14.62	13.45	8.7%	16.05	-8.9%
Coal - Local	11.92	15.27	-21.9%	n.m	n.m
Coal - Imported	21.05	14.53	44.9%	n.m	n.m
HSD	45.61	42.15	8.2%	-	0.0%
RFO	35.44	38.55	-8.1%	28.97	22.3%
Gas	13.75	14.60	-5.9%	9.59	43.4%
RLNG	24.30	26.22	-7.4%	21.91	10.9%
Nuclear	1.33	1.32	0.9%	1.07	23.7%
Import	32.80	33.13	-1.0%	25.66	27.8%
Mixed	-	-	0.0%	6.04	-100.0%
Wind	-	-	0.0%	-	0.0%
Baggasse	5.98	5.98	0.0%	5.98	0.0%
Solar	-	-	0.0%	-	0.0%
Total	13.79	10.13	36.1%	11.20	23.1%
Total (Final)	14.62	11.02	32.6%	11.73	24.7%
Reference	7.49	5.40	38.6%	10.55	-29.0%
FCA	7.13	5.62	27%	1.17	508.0%

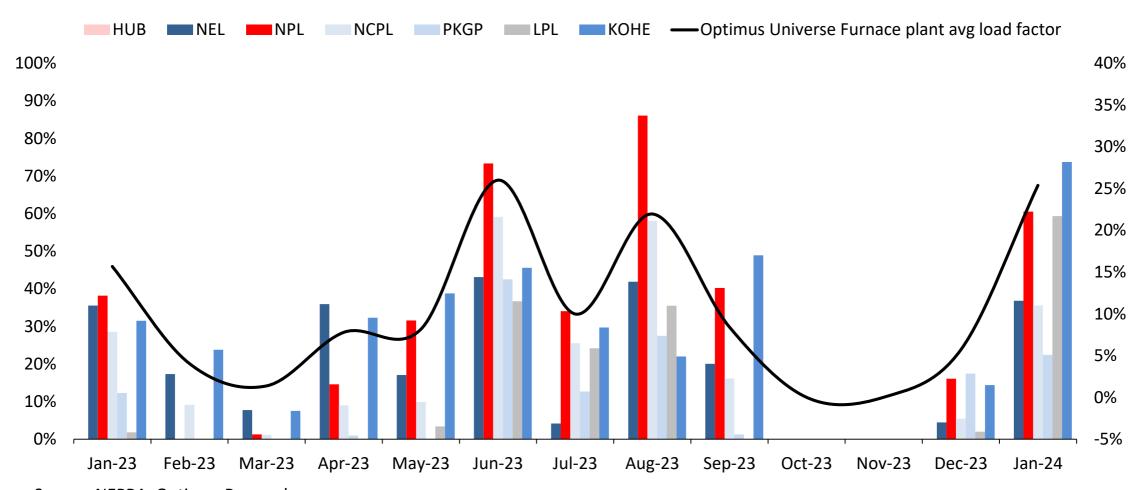


PKR/USD Weakening Pulled Up Generation Costs Y/Y



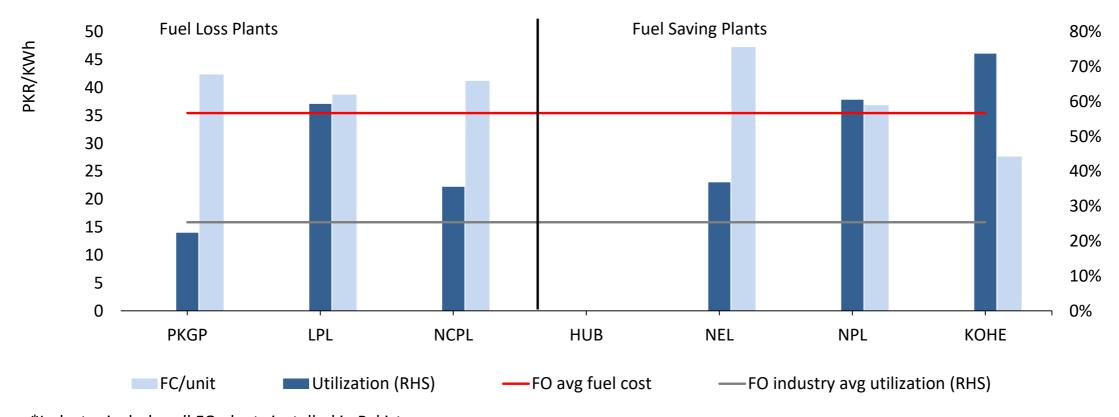


FO Plants Face High Utilization During Jan-24





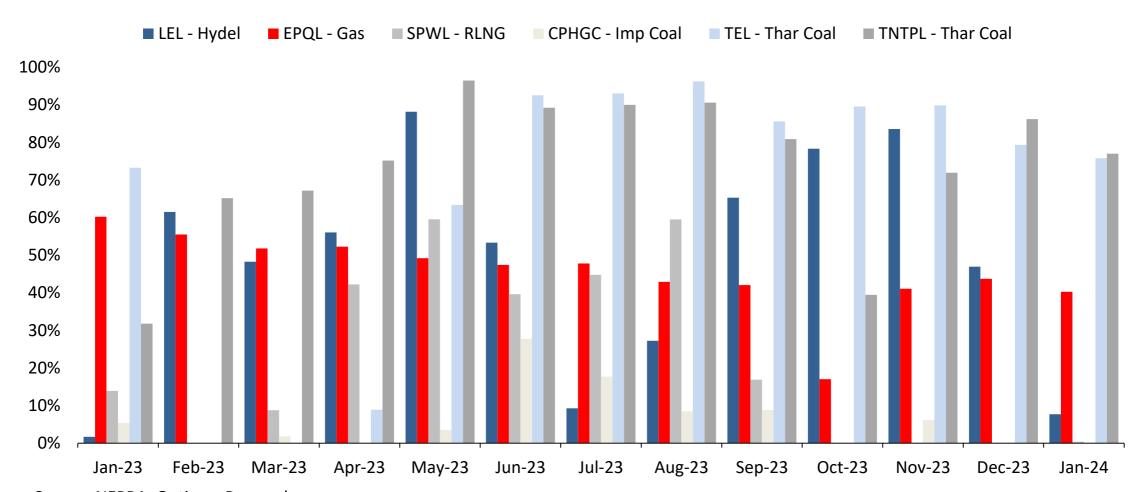
PKGP/LPL's Load Factor Increased M/M, Incurring Fuel Losses



^{*}Industry includes all FO plants installed in Pakistan

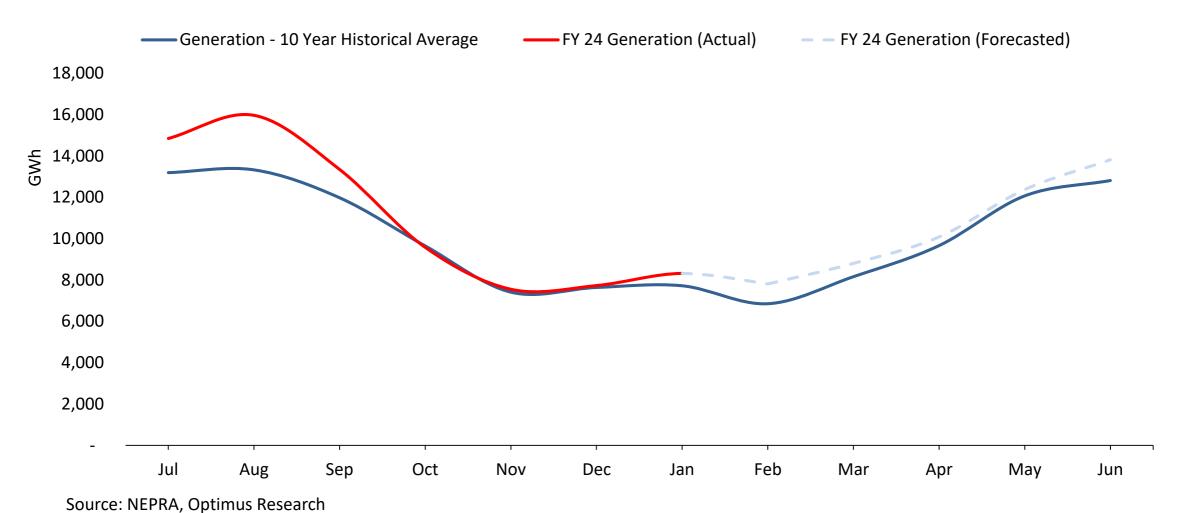


Local Fuel Plants (Except CPHGC) Running at High Utilizations



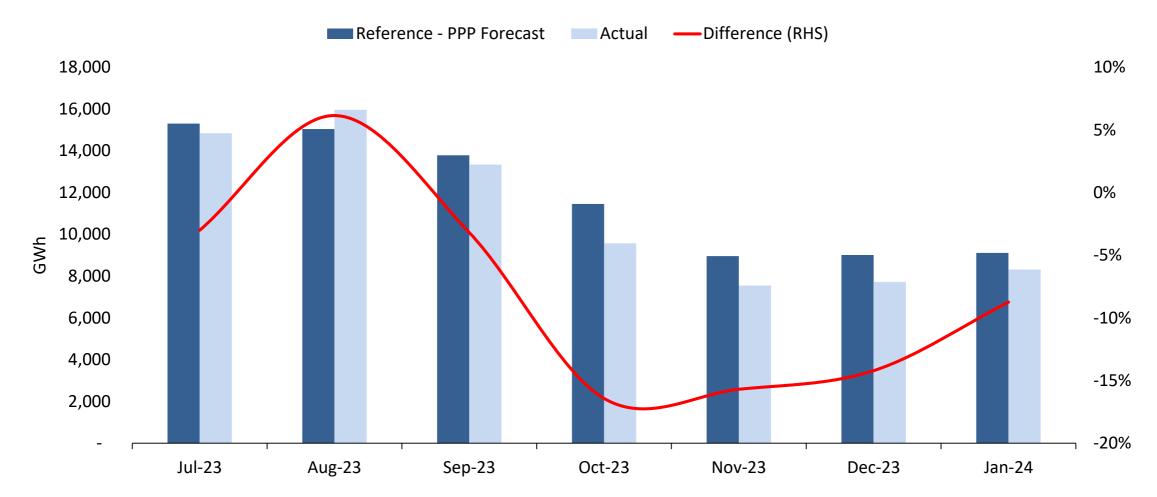
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Power Generation Expected to Decline in Feb-24





During Jan-24, Power Generation was 9% Lower than the Reference Generation





Analyst Certification

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