Nigerian Electricity Regulatory Commission

Operational Performance of Power Plants

FACTSHEET
February, 2025

Energy Generation

40% ▲1%
Plant Availability Factor

5,432MW ▲2%
Average Available Capacity

13,625MW
Installed Capacity

4,788MWh/h ▲2%
Average Hourly Generation

28
Grid-Connected Plants

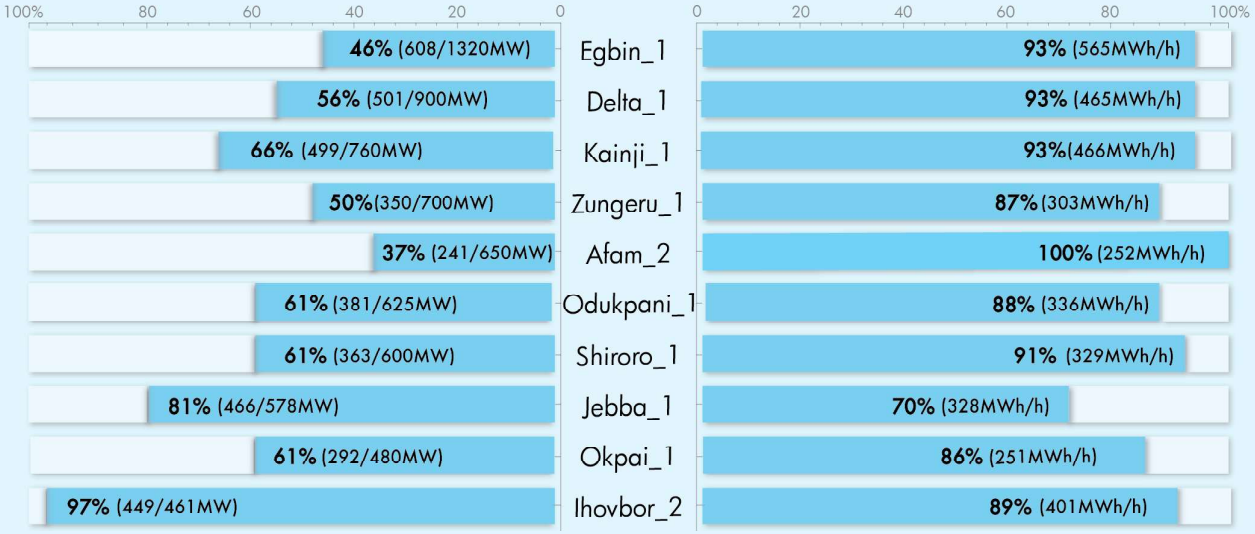
▲▼ – Relative change compared to previous month (January 2025)

Grid Performance

		Limit	Actual
Grid Frequency	upper	50.25Hz	50.81Hz ▲1%
	—	—	—
	lower	49.75Hz	49.29Hz ▼1%
Grid Voltage	upper	346.50kV	346.11kV ✔
	—	—	—
	lower	313.50kV	295.18kV ▼6%

▲▼ – Percentage deviation from limit ✔ – Performance within limit

Largest Energy Producers - February 2025



Plant Availability Factor

Load Factor

Other Grid Connected Plants

Plant	Installed Capacity (MW)	Average Available Capacity (MW)	Plant Availability Factor (%)*	Average Hourly Generation (MWh/h)	Load Factor (%)**
Olorunsogo_2	750	38	**5%**	25	**65%**
Afam_1	726	76	**10%**	71	**94%**
Sapele Steam_1	720	30	**4%**	21	**68%**
Sapele_2	500	93	**19%**	57	**61%**
Alaoji_1	500	0	**0%**	0	**0%**
Omotosho_2	500	72	**14%**	57	**79%**
Ihovbor_1	500	46	**9%**	18	**39%**
Geregu_1	435	87	**20%**	82	**94%**
Geregu_2	435	232	**53%**	188	**81%**
Omotosho_1	335	176	**52%**	156	**89%**
Olorunsogo_1	335	164	**49%**	158	**96%**
Ibom power_1	190	20	**11%**	20	**100%**
Rivers_1	180	70	**39%**	64	**91%**
Omoku_1	150	26	**17%**	27	**100%**
Ikeja_1	110	108	**98%**	100	**92%**
Trans Amadi_1	100	7	**7%**	10	**100%**
Igbafo_1	45	21	**46%**	22	**100%**
Dadin-Kowa_1	40	16	**40%**	16	**100%**
Grid Total	**13,625**	**5,432**	**40%**	**4,788**	**87%**

*Plant availability factor is measured as a ratio of the maximum rated output of the plant declared by the operator relative to the maximum rated output specified by the manufacturer

**The load factor is a measure of the utilisation of a power plant's available capacity, calculated as the ratio of the average electricity generated over a period to the maximum possible generation