

THE FACTS ON "LOAD REJECTION"

"Power generation falls to 2,970MW on Discos' demand"

- Punch Newspaper of Monday 26 August, 2019

PUNCH NEWSPAPER CLAIMS

"...The amount of electricity generated by the nation's 27 power stations fell below 3,000 megawatts on Sunday (25th August 2019) as low load demand by distribution companies continued to limit generation."

"...Total power generation in the country dropped to 2,970MW as of 6am on Sunday from 3,182.2MW on Saturday, data obtained by our correspondent from the Nigeria Electricity System Operator showed."

"...A report from the system operator showed that a total of 2,159.7MW generation capacity was idle on Thursday as a result of low load demand by Discos while 112.5MW was unutilised because of line constraints."

"...Despite the availability of about 8,000MW of generation and about 7,000MW of transmission capacity, lack of Disco infrastructure to absorb and deliver grid power to end users has largely restricted generation to an average of about 4,000 MW." - Vice President Yemi Osinbajo

DISCOS FACTS & FIGURES

On the 25th August 2019, DisCos requested or nominated a total of **4,388.34 MW** of energy from TCN.

* However, TCN's National Control Center (NCC) data showed that TCN's total sent-out or delivered energy on this day was 3,258.71 MW, resulting in a negative variance or delivery of -1,129.63 MW.

The cumulative of the DisCos' energy demand for Thursday, 22 August, 2019 was 4,449.23 MW, while TCN delivered 1,159.72 MW less energy than the DisCos requested.

Siemens May 07, 2019 Electrification Roadmap for Nigeria Report
(1) "Previous analyses had indicated that the capacity of this "last mile", given as the non-coincidental peak load of 11 kV distribution feeders in historic system operation, is about twice as high as the peak supply delivered by TCN to the respective distribution utilities; (2) "Non-coincidental feeder peak load in Nigeria assumed to be ~11 GW [11,000 MW]"; and (3) "Today, power distribution by the Disco's to end-customers is limited by power infeed from TCN."

		22/08/2019	23/08/2019	*24/08/2019	25/08/2019
ABUJA DISCO	Energy Requested from TCN by DisCo (MW)	516.60	524.34	521.03	521.03
	Energy Delivered to DisCo by TCN (MW)	401.17	407.25	385.77	407.83
	Difference (MW)	-115.43	-117.09	-135.26	-113.20
BENIN DISCO	Energy Requested from TCN by DisCo (MW)	701.50	696.80	682.90	633.40
	Energy Delivered to DisCos by TCN (MW)	604.00	454.20	457.60	381.00
	Difference (MW)	-97.50	-242.60	-225.30	-252.40
ENUGU DISCO	Energy Requested from TCN by DisCo (MW)	404.31	435.36	407.76	407.76
	Energy Delivered to DisCo by TCN (MW)	244.69	230.54	227.09	218.87
	Difference (MW)	-159.62	-204.82	-180.67	-188.89
EKO DISCO	Energy Requested from TCN by DisCo (MW)	494.15	501.55	498.38	498.38
	Energy Delivered to DisCos by TCN (MW)	412.08	405.23	377.90	334.82
	Difference (MW)	-82.07	-96.32	-120.48	-163.56
IBADAN DISCO	Energy Requested from TCN by DisCo (MW)	470.11	471.11	468.41	469.64
	Energy Delivered to DisCo by TCN (MW)	378.60	376.08	368.59	341.87
	Difference (MW)	-91.51	-95.03	-99.82	-127.77
IKEJA DISCO	Energy Requested from TCN by DisCo (MW)	606.30	617.00	617.00	617.00
	Energy Delivered to DisCos by TCN (MW)	507.00	529.90	507.80	485.30
	Difference (MW)	-99.30	-87.10	-109.20	-131.70
JOS DISCO	Energy Requested from TCN by DisCo (MW)	247.08	250.77	249.19	249.19
	Energy Delivered to DisCo by TCN (MW)	131.39	142.80	134.63	122.11
	Difference (MW)	-115.69	-107.97	-114.56	-127.08
KADUNA DISCO	Energy Requested from TCN by DisCo (MW)	359.38	364.76	362.46	342.78
	Energy Delivered to DisCos by TCN (MW)	166.52	165.97	187.43	176.69
	Difference (MW)	-192.86	-198.79	-175.03	-166.09
KANO DISCO	Energy Requested from TCN by DisCo (MW)	359.38	364.76	362.46	362.46
	Energy Delivered to DisCo by TCN (MW)	153.64	133.06	135.11	108.91
	Difference (MW)	-205.74	-231.70	-227.35	-253.55
PORT HARCOURT DISCO	Energy Requested from TCN by DisCo (MW)	290.42	303.7	299.85	286.7
	Energy Delivered to DisCos by TCN (MW)	175.01	213.32	213.39	200.68
	Difference (MW)	-115.41	-90.38	-86.46	-86.02
		22/08/2019	23/08/2019	24/08/2019	25/08/2019
	Cummulative of DisCos' requested Energy	4,449.23	4,530.15	4,469.44	4,388.34
	Cummulative of Energy delivered by TCN	3,174.10	3,058.35	2,995.30	2,778.08
	Cummulative Difference	-1,275.13	-1,471.80	-1,474.14	-1,610.26

Items of Note:

1. Maximum energy ever transmitted or wheeled by TCN is **4,557 MW** (even with a peak generation of **5,375 MW**, February 7th, 2019), with its tested wheeling capacity of **5,500 MW**.
2. TCN's claimed transmission capacity increase based on a simulation of 8,000 MW remains exactly that, a computer simulation with no real-life application.
3. **2,000MW** of the available generation of **7,652.6MW** remains constrained, largely because of lack of gas, given that 25 out of our 28 power generation plants are fueled by gas, as well as transmission and hydro constraints.
4. Electricity distribution capacity has been determined as **11,000MW (Siemens May 07, 2019 Electrification Road Map for Nigeria Report)**.
5. At a minimum, there has to be (1). A technical alignment of the capacities of gas, generation, transmission and distribution; and (2) A commercial alignment of the NESI value chain, if electricity customers are to receive the level of supply that they are rightly entitled to. Propaganda or dissemination of inaccurate or fake information is not productive in accomplishing this minimum.

Signed:
Barr. Sunday Oduntan
Executive Director,
Research & Advocacy



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