

## **Energy Market Insights**

.... Webinar Series [1st Edition]







- I. The State of Play in NESI
- 2. Generation levels and projections
- 3. Power Supply Performance Sept'20
- 4. Merit Order Dispatch Compliance (Sept '20)
- 5. Energy Allocation vs Vesting Contracts
- 6. Industry Key Performance Indicators
- 7. Recent Developments in NESI





## The State of Play in NESI

#### **Generation Constraints**

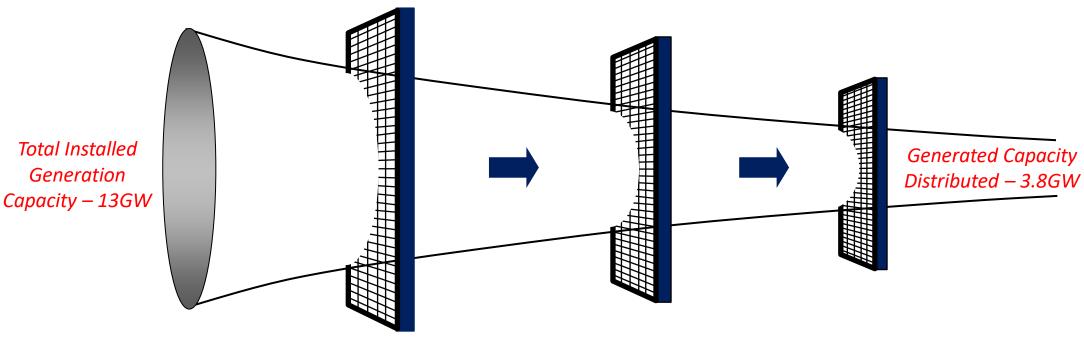
- Gas Constraints
- Frequency Constraints
- Low Grid Demand
- Hydro level challenges

#### **Transmission Constraints**

- Inadequate Infrastructure
- Grid Demand Misalignment
- Inadequate Ancillary Services

#### **Distribution Constraints**

- ATC&C Losses
- Inadequate Infrastructure
- TCN Supply Misalignment



**Generation Capacity** 

Transmission

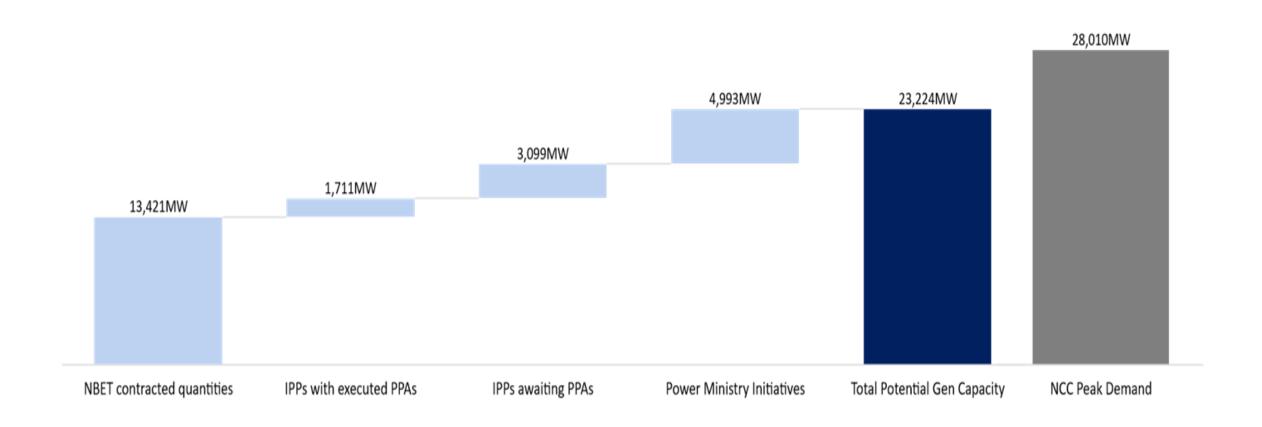
Distribution

**Customer Supply** 





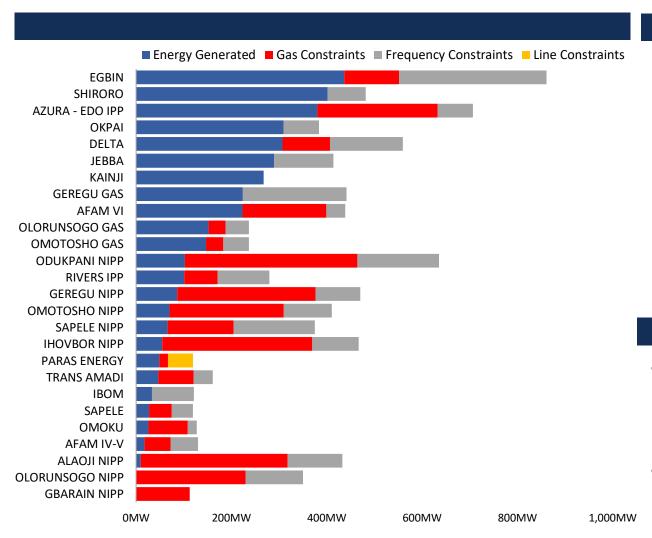
## Where we are with Generation today

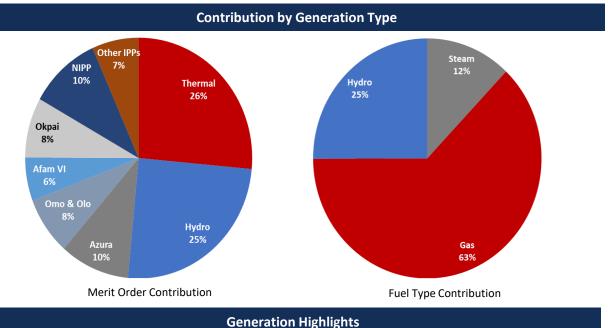






## **Power Supply Performance (Sept'20)**



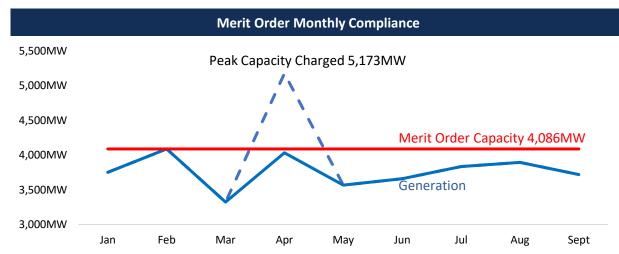


- Production: Average generated capacity of 3.8GW. Highest production from Egbin (437MW), Shiroro (402MW), and Azura (380MW).
- **Constraints**: Gas **(3.0GW)** and frequency **(2.4GW)** constraints were the major constraints to generation.





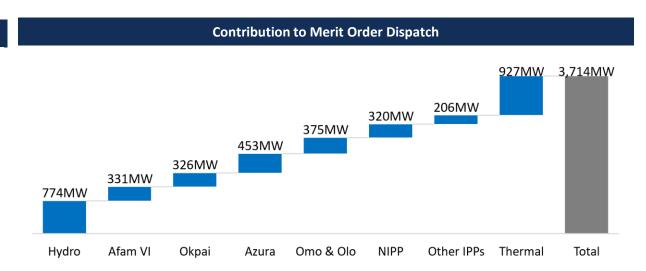
## Merit Order Dispatch Compliance (Sept '20)

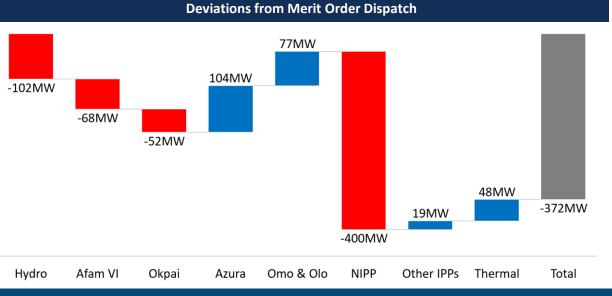




- **Industry Performance:** Merit Order commitment achieved only in February and unmet in the other months.
- **Generation:** Merit Order deviation for September is -372MW. Significant under dispatch from NIPP (-400MW) and Hydro Generators (-102MW), with exceedance of 104MW from Azura.

Month	Unit Cost (N/KWh)	Capacity (MW)	Energy (GWh)
February	20.94	4,085	2,337
April	26.35	4,031	2,466
September	27.36	3,713	2,277





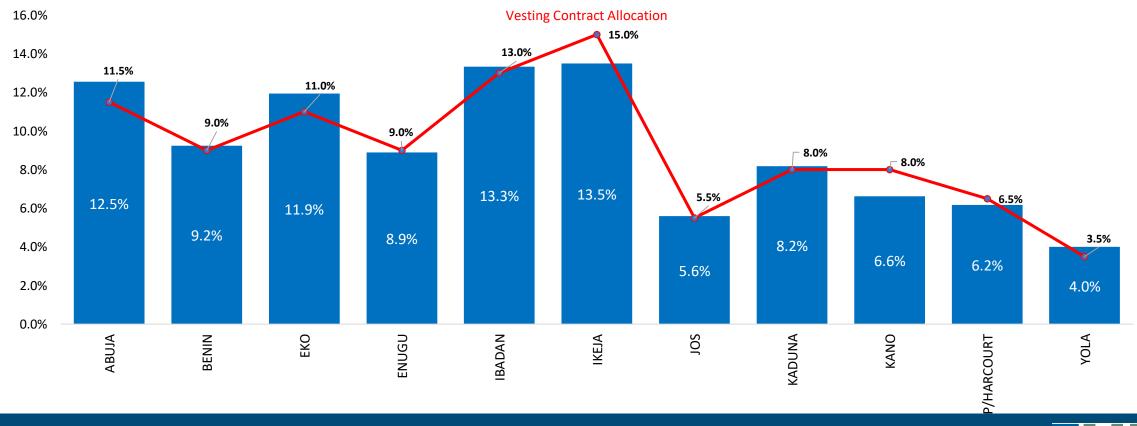




## **Energy Allocation Vs Vesting Contracts**

#### **Energy Consumption by Distribution Companies vs Vesting Contract Allocation**

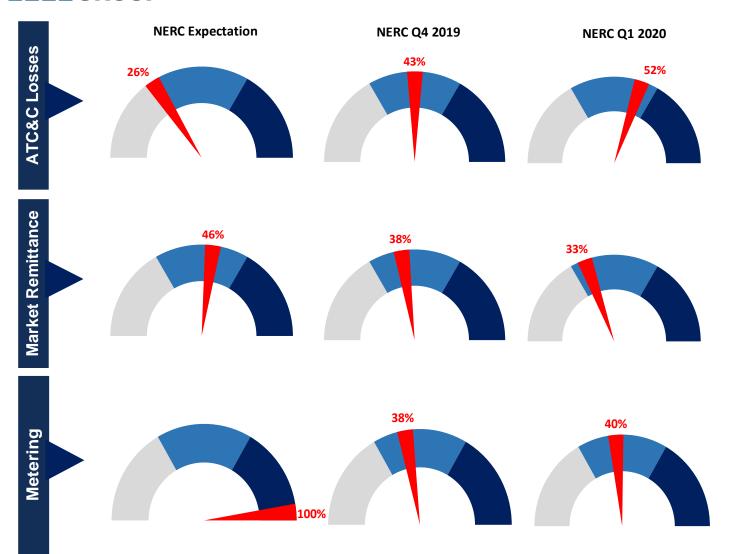
- Highest exceedance versus vesting contract allocations recorded for Abuja (+1%), Eko (+1%) and Yola (+0.5%) Discos.
- Underperformance against vesting contract significant for Ikeja (-1.5%), Kano (-1.4%) and Port Harcourt Discos
- NERC's Guideline on Minimum Remittance Order issued in December 2019 penalizes Disco that takes lower energy than its vesting contract allocation.







## **Industry Key Performance Indicators – 1/2**



#### **ATC&C Losses**

- AT&C efficiency experienced an absolute decrease of 9.3% from Q4 2019 (57%) to Q1 2020 (48%)
- ATC&C driven by increase in collection losses, even as amount billed by Industry increased.
- Increase in collection losses driven by COVID 19 impact; energy reallocation from maximum demand to residential customers and lockdown restrictions slowed billing activities.

#### **Market Remittance**

- Market Remittance experienced an absolute decrease of 5.8% from Q4 2019 (38%) to Q1 2020 (33%)
- Remittance to the Market Operator reduced to 93% from 100% in Q4 2019
- Remittance to NBET reduced to 22% from 28% in Q4 2019
- Expected downturn in distribution activities might explain the reduction in guarter-on-quarter remittance

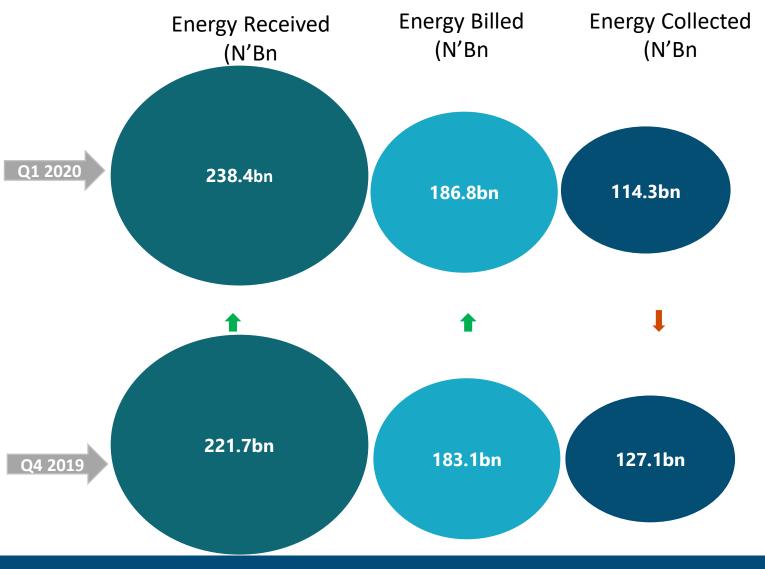
#### Metering

- Metering experienced a slight absolute increase of 2.6% from Q4 2019 (38%) to Q1 2020 (40%)
- 4.2 million of 10.4 million customers metered
- 29 MAPs registered in Q1 2020
- Metering constrained in Q1 2020 due to import duty imposed on meters, COVID 19 lockdown restrictions, and industry liquidity challenges.





## **Industry Key Performance Indicators – 2/2**

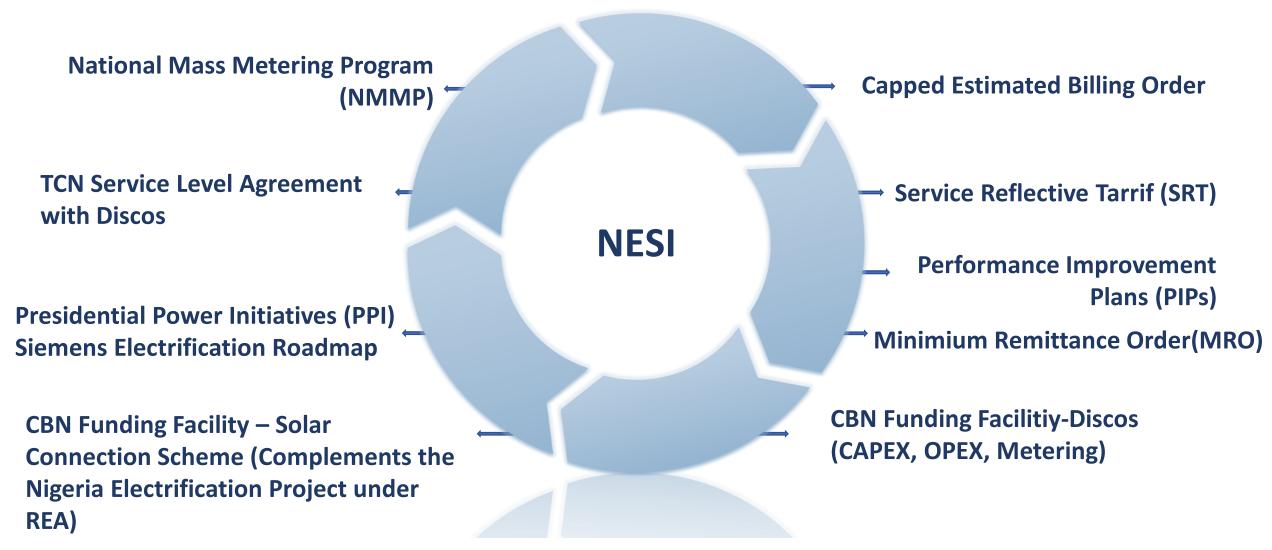


- About 42.7% of the total value energy received was not collected by the end of Q4 2019.
- At the end of Q1, 2020, about 52% of the total value of energy received was not collected resulting to about N124.1bn loss of value, which is higher than the loss value N94.6bn by Q4 of 2019.
- Billing and Collection efficiency dropped to 78% and 61% respectively in Q1 of 2020 from 83% and 69% in Q4 of 2019





## **Recent Developments**







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