

**Regional Workshop -
Transforming CBET
&
Regional Electricity Market**

1st July, 2024

IEX: India's premier technology-led energy marketplace



- ❑ Nation wide, automated and transparent trading platform for physical delivery of electricity, renewables & certificates
- ❑ Commenced operations in 2008; CERC regulated
- ❑ Publicly listed company – 2017 (NSE and BSE)
- ❑ ISO 9001:2015, ISO 27001:2013, ISO 14001:2015
- ❑ Market Share incl DAM & RTM is ~100%
- ❑ **IEX is on the Board of Association of Power Exchanges (APEX) where 40 Global exchanges are members**
- ❑ **IEX has diversified into Gas Exchange (IGX)**
- ❑ **IEX is member of 13 State Regulatory Commission advisory committees**
- ❑ **Regularly organize Capacity Building workshop for participants**

Robust Ecosystem

7000+

Registered participants

4500+

Commercial & Industries

1500+

RE Generators & Obligated Entities

600+

Generators

55+

Discoms (all)

100+

ESCert Entities

Leading the future of energy with innovation and technology

IEX Over 16 Years – Journey of innovation to meet market needs



- Incorporation of Indian Energy Exchange
- Launched Day Ahead Market.

- Introduced Renewable Energy Certificate (REC) in the market

- Launched round the clock TAM

- Launched RTM & GTAM
- Incorporated Indian Gas Exchange

- GTAM (Hydro)
- LDC
- Redesigned REC



- Introduced Term Ahead Market (TAM)

- Introduced 15 mins contract in DAM
- First solar REC trade
- Signed MOU with PJM Technologies

- Launched Energy Saving Certificate

- Cross Border Trading
- GDAM

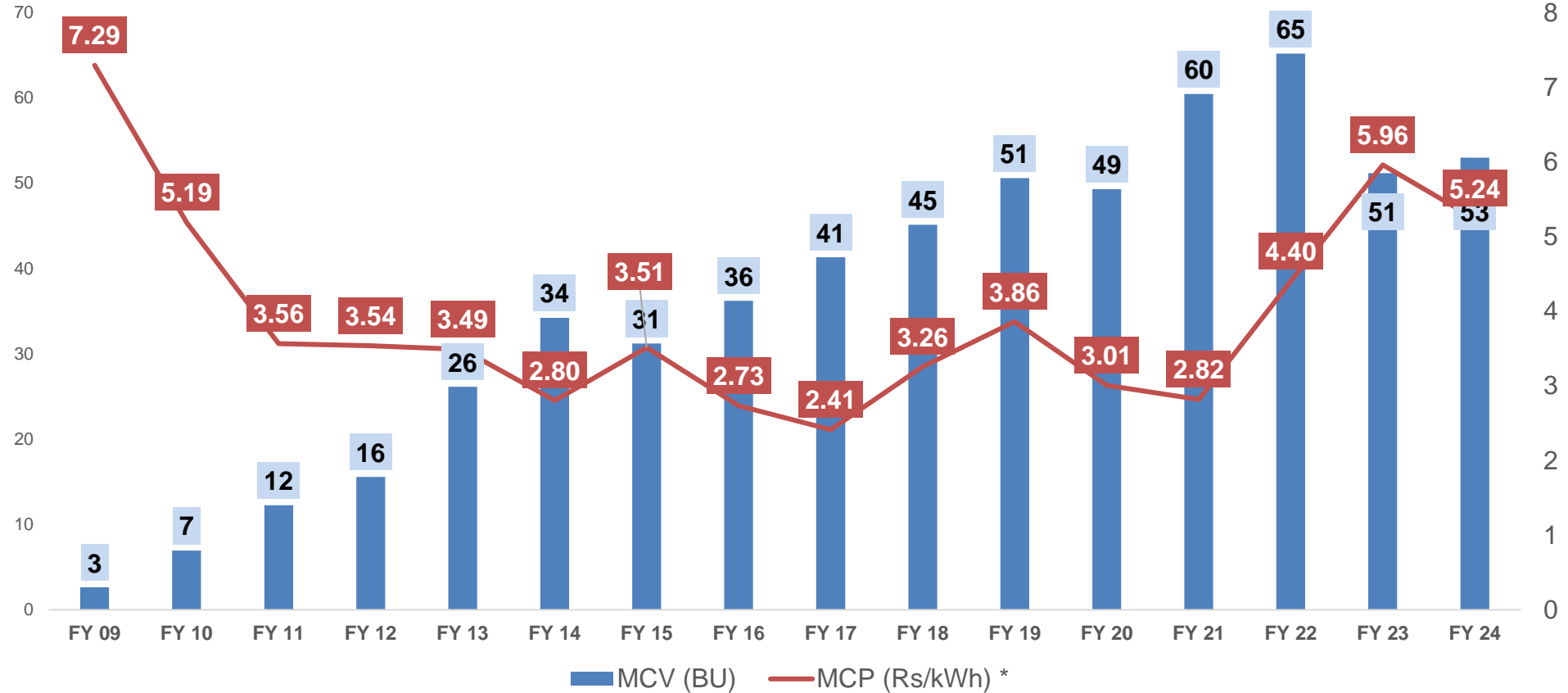
- HP-DAM
- Ancillary Services
- HP-TAM
- Incorporated International Carbon Exchange

Existing Products & Auction Mechanism

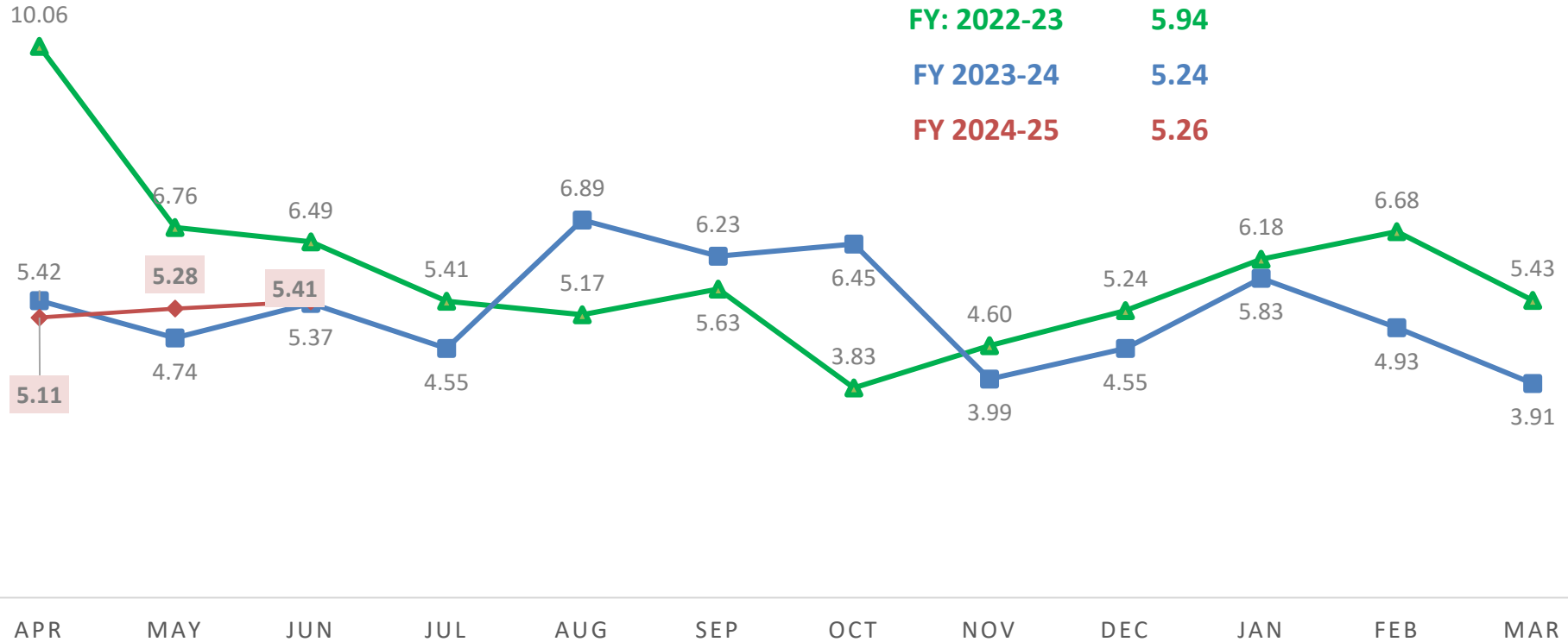


- Integrated DAM - *Closed double sided auction*
 - **G-DAM**
 - **DAM (includes Cross Border Trade)**
 - High Price DAM
- **Real-Time Market (RTM)** - *Closed double sided auction* (includes Cross Border Trade)
- Intraday Market (Conv., HP ITD & **Green**) – *Continuous matching*
- Day Ahead Contingency (Conv., HP DAC & **Green**) – *Continuous matching*
- TAM, HP-TAM & **Green TAM (up to 3 Months)**
 - Daily, Weekly, Monthly – *Uniform price step auction*
 - Any Day Single-Sided Contract (Conv. & **Green**) – *Reverse auction*
- Tertiary Reserve Ancillary Services (TRAS): AS-DAM & AS-RTM
- **Certificates: RECs & ESCerts** – *Closed double sided auction*

Yearly DAM Snapshot



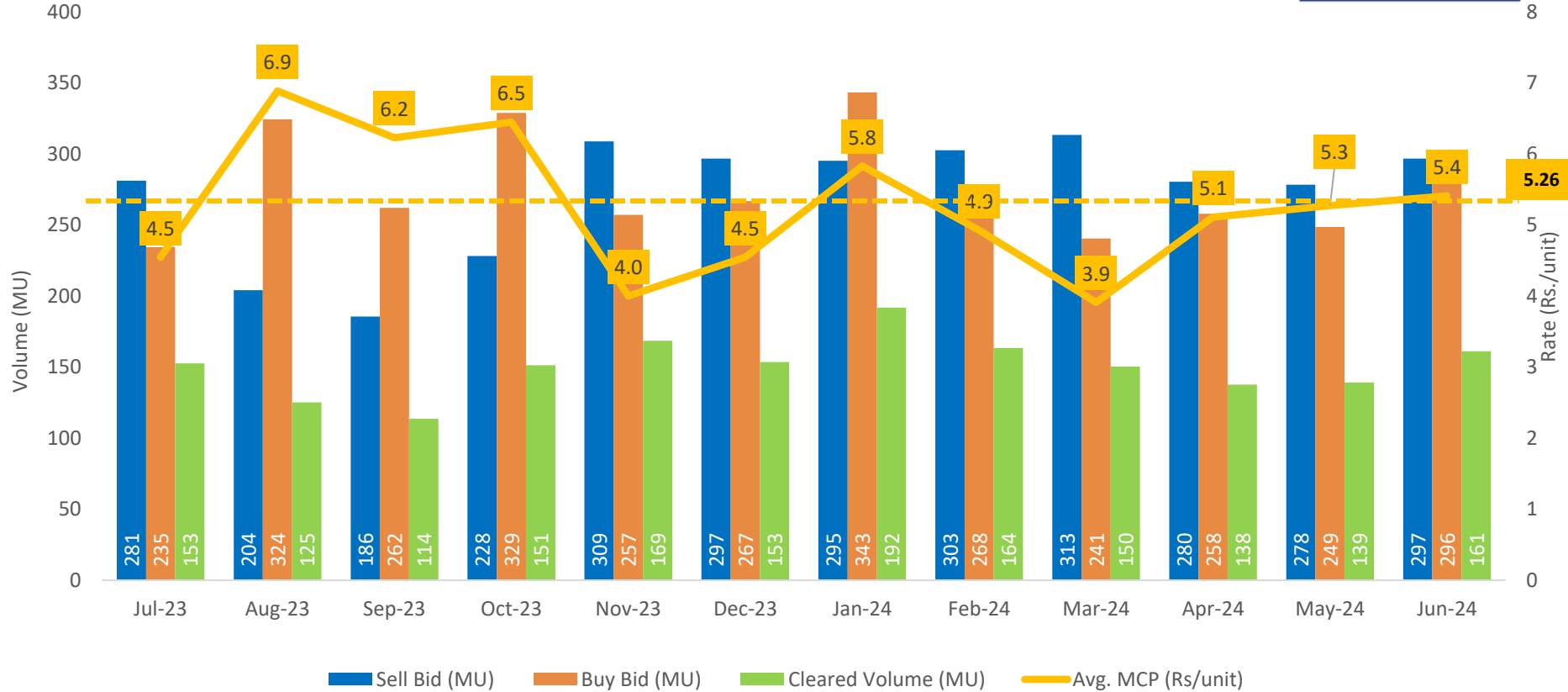
Price Trends (Rs./kWh) at DAM



FY: 2022-23 **5.94**
FY 2023-24 **5.24**
FY 2024-25 **5.26**

- Price cap of Rs. 12/kWh applicable for April 22- March 23
- Price Cap of Rs. 12/kWh revised to Rs. 10/unit from April 2023 onwards
- Data till June-24

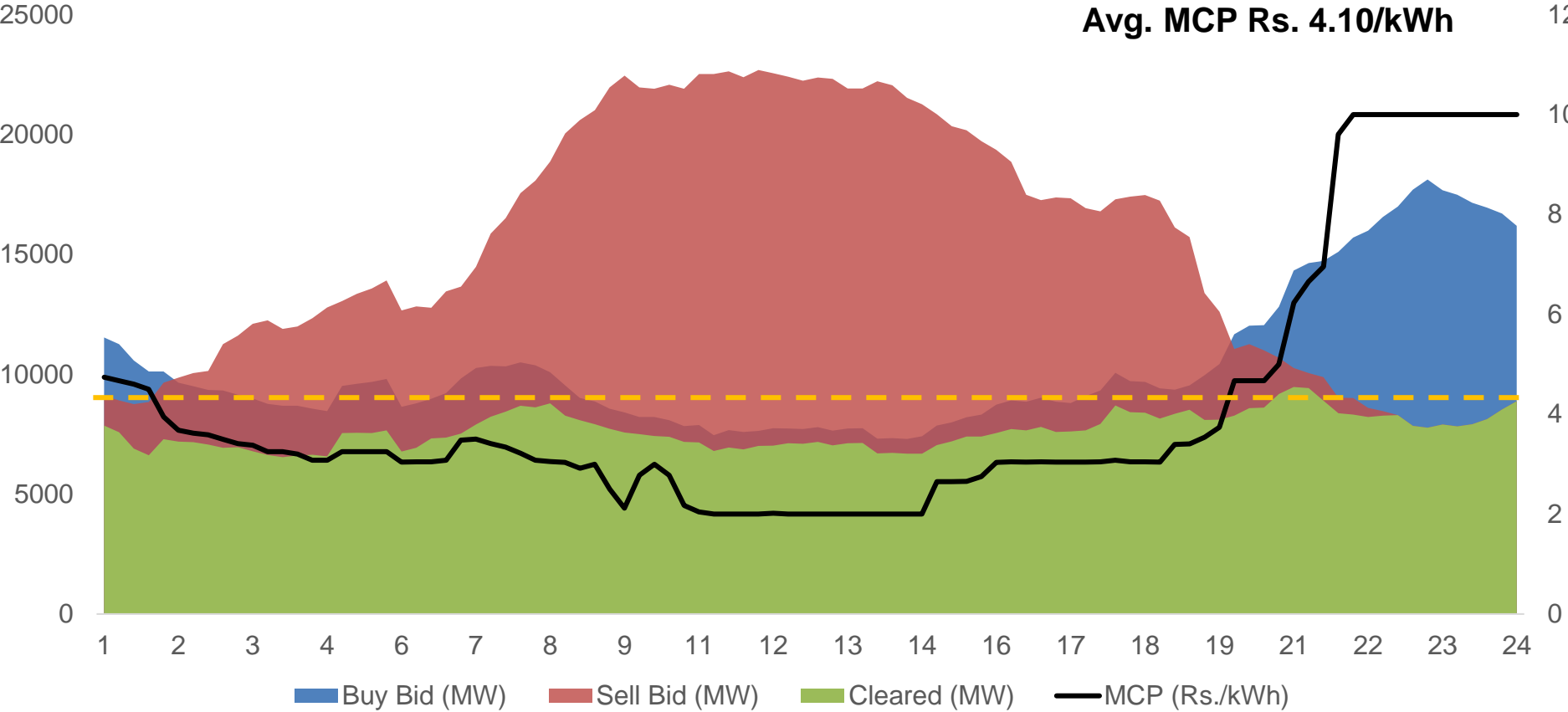
DAM Daily Average Trends (Last 12 Months)



DAM Snapshot for 01.07.2024



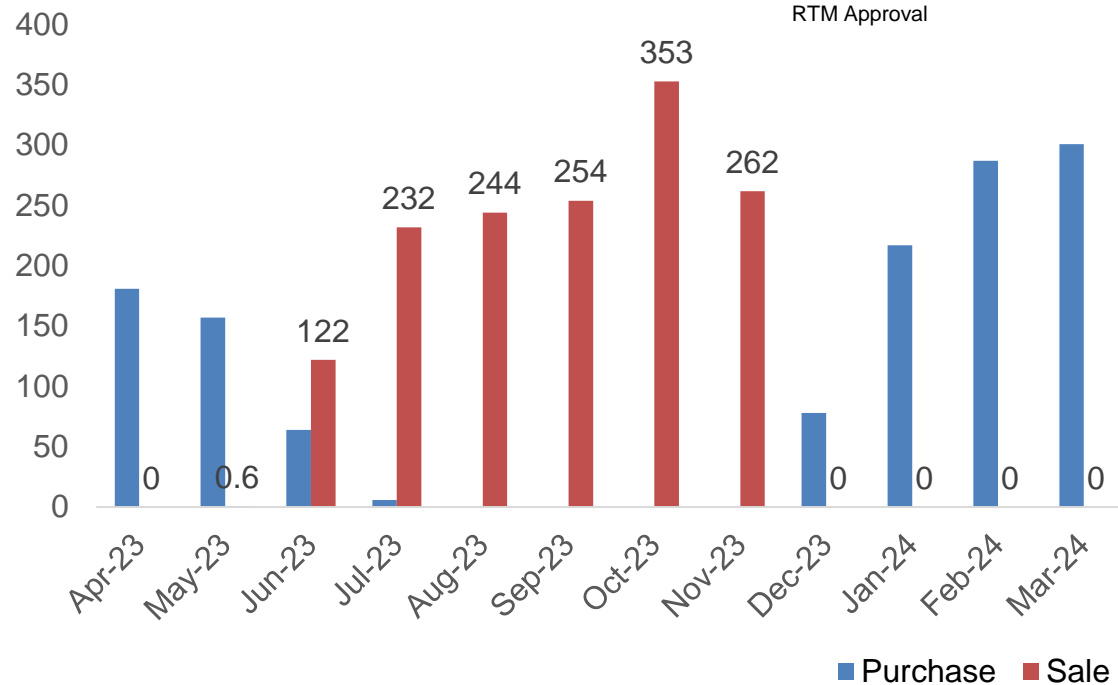
Avg. MCP Rs. 4.10/kWh



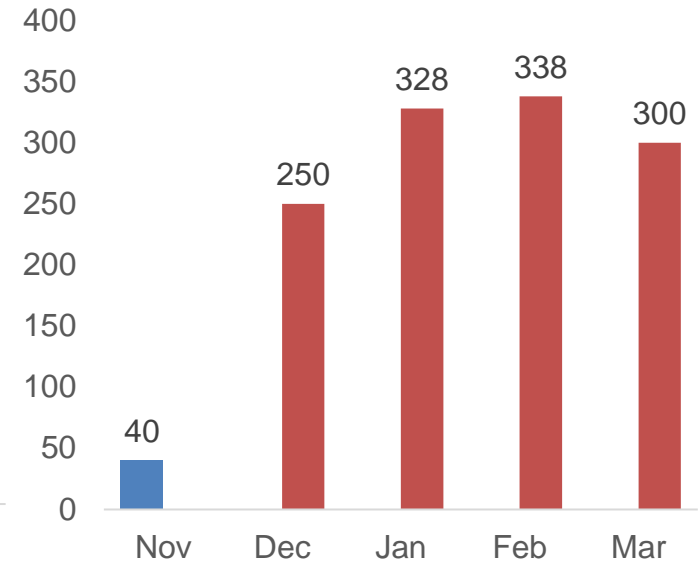
Month Wise Power Trade in MUs – FY24



Nepal



Bhutan



Opportunities for Bangladesh



- Exchange provides flexibility in Power Procurement through DAM & RTM
 - No rigid contract, buy/sell as per real time requirement upto 1 hr in advance, different quantum for 15 mins time blocks
- Exchange provides competitive price discovery, transparency and region wide participation
- Nepal and Bhutan are utilizing exchange platform efficiently – buying and selling to meet requirement in optimum way.
- Bangladesh can start utilizing residual transmission capacity available to meet requirement
- Bangladesh can use exchange platform for **optimizing their power purchase cost**
 - Replacing costlier power during the solar hours when exchange prices are low (~ Rs 2-3/kWh)

Launch of IEX Academy; Price Index - PowerX



- ✓ Launched in June to create pool of skilled professionals for capacity building in the power market
- ✓ Customized certification courses to develop skills and expertise in Electricity Markets across topics such as power sector policies, regulatory frameworks, and power exchange operations
- ✓ Courses designed based on in-house experience of IEX, and in collaboration with academic institutions and think tanks.



- ✓ Launched IEX Power Price Index – ‘PowerX’ – India’s first Electricity Price Index.
- ✓ Provides competitive benchmark signals and enable market participants to make more effective decisions.
- ✓ Calculated based on weighted average price of Day-Ahead Market and Real-Time Market.



Thank you



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