

The Manager

Listing Department

National Stock Exchange of India Ltd

Exchange Plaza, 5th Floor, Plot no C/1 G Block, Bandra Kurla Complex

Bandra (E), Mumbai-400 051

Dated: June 04, 2020

The Manager BSE Limited Corporate Relationship Department Phiroze Jeejeebhoy Towers Dalal Street Mumbai- 400001

Scrip Code: 540750 Symbol: IEX

Sub: Investor Presentation Q4 FY 2020

Dear Sir / Madam,

Pursuant to Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, please find attached an Investor Presentation for Q4 FY2020.

The above information will also be made available on the website of the Company: www.iexindia.com

You are requested to take the above information on record.

Thanking You.

Yours faithfully,

For Indian Energy Exchange Limited

Vineet Harlalka Company Secretary & Compliance Officer Membership No. ACS-16264

Encl: as above





In this presentation

Sector in transformation

Electricity value chain

IEX: Who we are

Impact of COVID - 19

Way forward

Transformation drivers



Decarbonization



Deployment of low-carbon technologies - wind and solar.

Outlook:

- Renewables to become leading energy sources
- Emerging new tech like hybrids

Decentralization



Small-scale generation across T&D network

Outlook:

- RE a threat to centralized energy production
- Requirement of local solutions

Digitization



Intelligent CS and Apps to optimize plants and grid

Outlook:

 Digital Tech to promote aggregation solutions **Democratization**



Empowered consumers - economic power shift

Outlook:

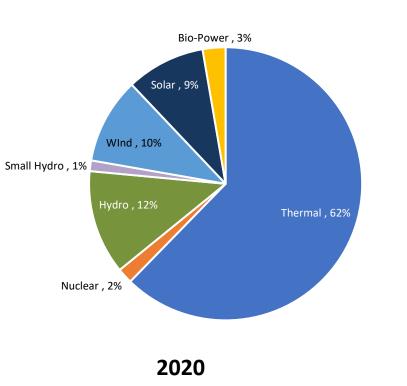
Peer to peer energy trading

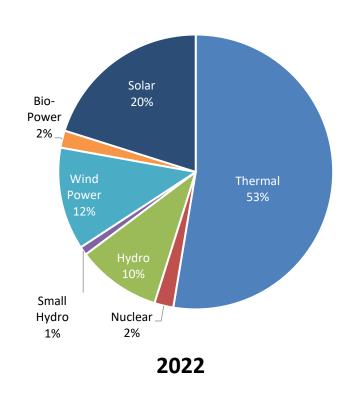
The energy shift

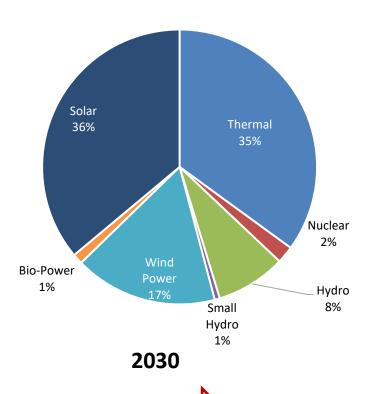


Paris Climate Agreement – Renewable energy to constitute 40% of total installed capacity base of 1250 GW

Hybridization requires technology driven apps and automation







Changing Installed Capacity Mix – Increasing reliance on RE

Source: CEA



Sector in transformation

In this presentation

Electricity value chain

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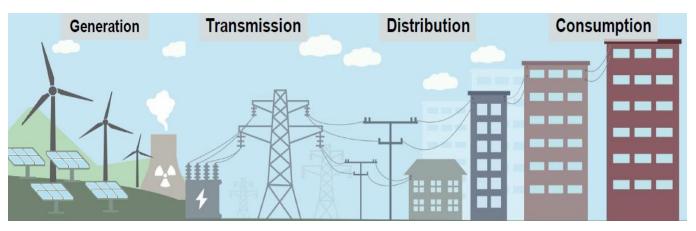
Impact of COVID - 19

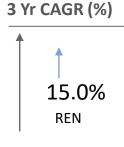
Way forward

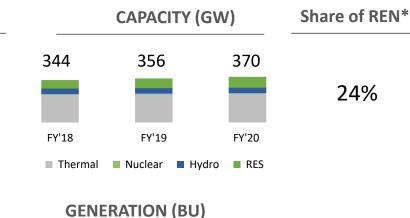
Electricity value chain



10%







Generation De-licensed

Private sector ~46%

Generation in distress

Transmission is licensed

World's largest network

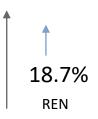
Pvt sector ~8%

Distribution licensed

Rs 91,284 Cr O/S as of March 2020*

AT&C Loss

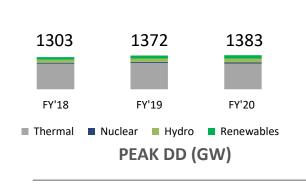
Energy deficit decreased from 10% to 0.5% over the last decade

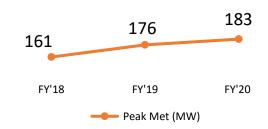


3.8%

4.2%



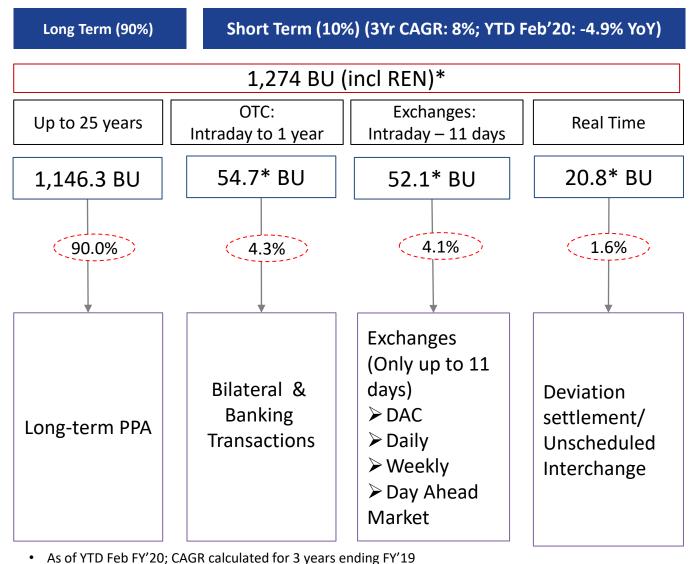


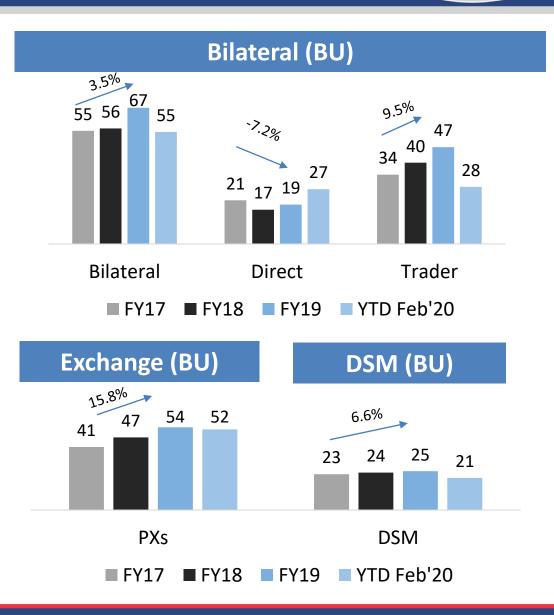


• Source: PRAAPTI; CEA; MOP 5 year vision; press

Power sector construct





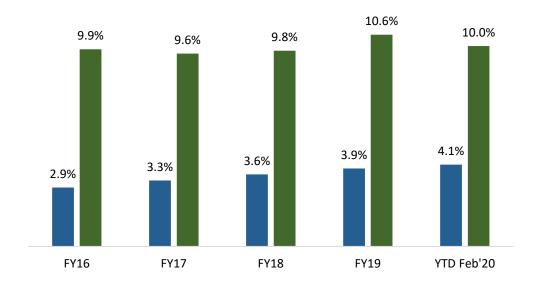


- Source: CEA, CERC

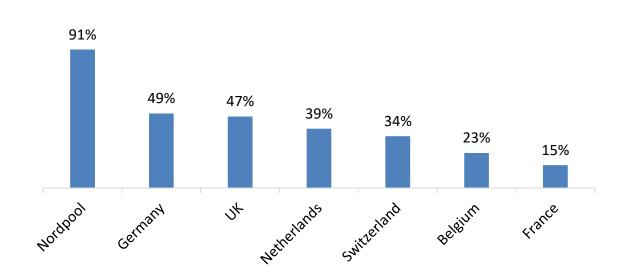
Share of power exchanges globally



Exchange market and ST market a % of total generation (incl Ren) – India¹



Exchange market as a % of total demand – Global²



Power markets in developed economies are in the range of 30-80% of total power demand vis a vis 4% in India

Electricity consumption bound to increase



India a third of global average in per capita consumption

Economic activity will accelerate

- Government envisions India as an industrial hub
- Core sector growth will drive electricity consumption

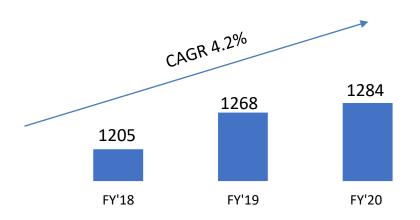
Rapid urbanization

17 of 20 world's fastest growing cities in India

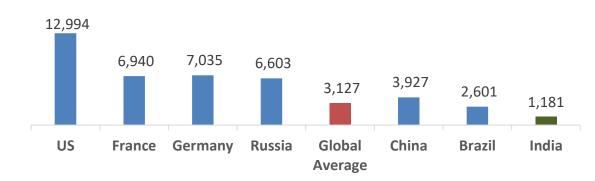
Consumer demand growth

- Last mile connectivity Saubhagya : Power for All
- Power on 24x7 basis

Total Electricity Demand (BU)¹



Per Capital Electricity Consumption (KWh)²







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Who we are



- India's leading power exchange Nation wide, Automated and transparent platform for physical delivery of electricity
- Commenced operations in 2008, Market Share: 95%
- Electricity CAGR ~40%, CERC regulated
- Average daily trade 6000+ MW
- Record day volume : 308 MU's (12,900 MW)
- Our customer base

4000+ Industries **I 55+** Discoms (all) **I 100+** ESCert Entities

500+ Generators I **1500+** RE Generators & Obligated entities

- Publicly listed company (NSE and BSE)
- ISO 9001:2015, ISO 27001:2013, ISO 14001:2015

OUR VISION

To be the architect of nextgeneration solutions for sustainable energy ensuring competitive, transparent and reliable access.

Transparency

Liquidity

Competition

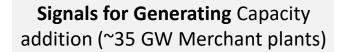
Benefitting Power Sector....and the nation



- Provides benchmark prices for all electricity transactions
- Transparent Mechanism for Price Discovery
- High liquidity on exchange has ensured lowest cost and assured supply

Truly benefited Indian Power Sector











- Lower power prices for discoms, end consumers.
- Avoids buying under take-orpay contracts.
- **Flexibility** on 15-min basis



Our Market segments



| Day-Ahead Market | Delivery <u>for next day</u> Price discovery: Closed , Double-sided Auction |
|-------------------------------------|--|
| Term-Ahead Market | Intraday: For Delivery within the same day Day Ahead Contingency: Another window for next day Daily and weekly contracts |
| Real-Time Market | Delivery <u>after 1 hour of auction</u> Price discovery: Closed , Double-sided Auction |
| Renewable Energy Certificates | Green Attributes as Certificates Sellers: RE generators not under feed in tariffs Buyers: Obligated entities; 1MWh equivalent to 1 REC |
| Energy Saving Certificates | 1 ESCert = 1 mtoe (metric Tonne of Oil Equivalent) Trading Session on every Tuesday of the Week Trading time 1300 hrs to 1500 hrs |



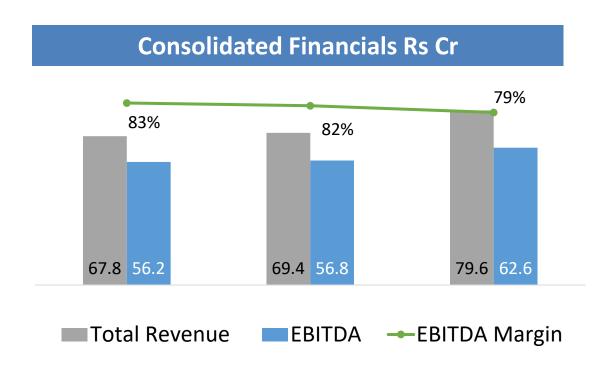




Continuous

Robust financial performance – Q4 2020





| Breakup of standalone revenues (%) | Q4 FY 2019 | FY 2019 | Q4 FY 2020 | FY 2020 |
|------------------------------------|---------------|------------|---------------|------------|
| Transaction Fees | 77% | 80% | 80% | 80% |
| Admission and Annual Fees | 6% | 7% | 7% | 6% |
| Other Income | 17% | 14% | 13% | 14% |

Robust business model and financial strength

Launch of a new market segment



- Introduced a new market segment Real Time Markets
- Trading commenced on 1st June 2020
- Market Features
 - 48 bid sessions during the day; Each bid session for a duration of 15 minutes
 - First bid session starts at 2245 hrs
 - Double-sided anonymous auction bidding process
 - Exchange manages risk management
- Day 1 performance of IEX
 - Traded **3.41 MU** volume, Market share **99%**
 - All key generation & distribution companies as well as the open access companies participate
 - Attractive average price discovered at Rs 1.55 per unit





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Impact of CoVID-19 on Indian Power sector



- Being essential service, impact on power generation is likely to be less than other industries
 - IPP's will be impacted no PPA's + anticipated fall in spot prices could drive them out of market
- Limited impact on coal prices and coal logistics, solar module prices would increase
 - 62GW thermal, 11GW RE under construction projects likely to be delayed debt servicing, project viability
- Sustained lockdown to adversely impact industrial and commercial demand (~50% share)
 - Reduction in peak demand by about 25% in April and 10% in May
 - Fall in C&I demand will impact subsidies available to other consumers
 - Revenue collection will be impacted
- Collection delays and defaults by consumers will impact payment to gencos and debt servicing to FI's
 - Tariff revision for utilities could be deferred leading to revenue shortfall
- Govt budgets to power sector could be diverted to COVID funding

IEX extending support during the crisis



- Enabling replacement of costly PPAs through buying on exchange
- Supporting distribution companies in supplying 24*7 uninterrupted power
- Extensive customer engagements and communication drives
- Providing round-the-clock operations with seamless connectivity and high security
- End to end automation allowing remote working
- Pivoting on employee safety as the first principle

Providing significant savings to DISCOMs





In April, the first full month of the lockdown, national power demand crashed by 25% year-on-year, Photo: Indranil Bhoumik/Mint

"Power utilities turn to cheaper exchange power as prices crash" – Live Mint – May 28, 2020

"We've been doing this for 6-7 months at APTransco, and we managed to save ₹500 crore in FY20. We were well placed to maximise this benefit when spot prices fell on the exchange during the lockdown in March and April. We saved ₹56 crore and ₹132 crore in those two months. We were able to buy power for as low as ₹1.8 a unit at one point."

"Maharashtra discoms turn to energy exchanges, shun costly PPAs" – PTI – April 12, 2020

"We are increasingly buying power from exchanges, which is cheaper than PPA tariffs," an official from state utility Mahavitaran







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Way forward

Way forward



1. Expand coverage and market

- Launch new products
- Advocacy to increase short term market

2. Best in class, futuristic Technology Infrastructure

- Enterprise IT, trading platform
- Technology & analytics solutions for customers

3. Strengthen the organisation

- Capacity building, hi-performance culture
- Talent acquisition, development and retention

4. Business diversification

- Play in the energy (eg. gas) basket of India
- Energy efficiency technology solutions



Expand coverage and market

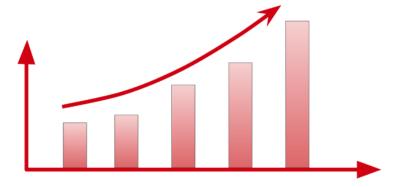


New Product Launches

- Cross Border Trade
- Longer Duration Contracts
- Green TAM
- Exchange based Ancillary
 Market
- Banking contracts

Tech based

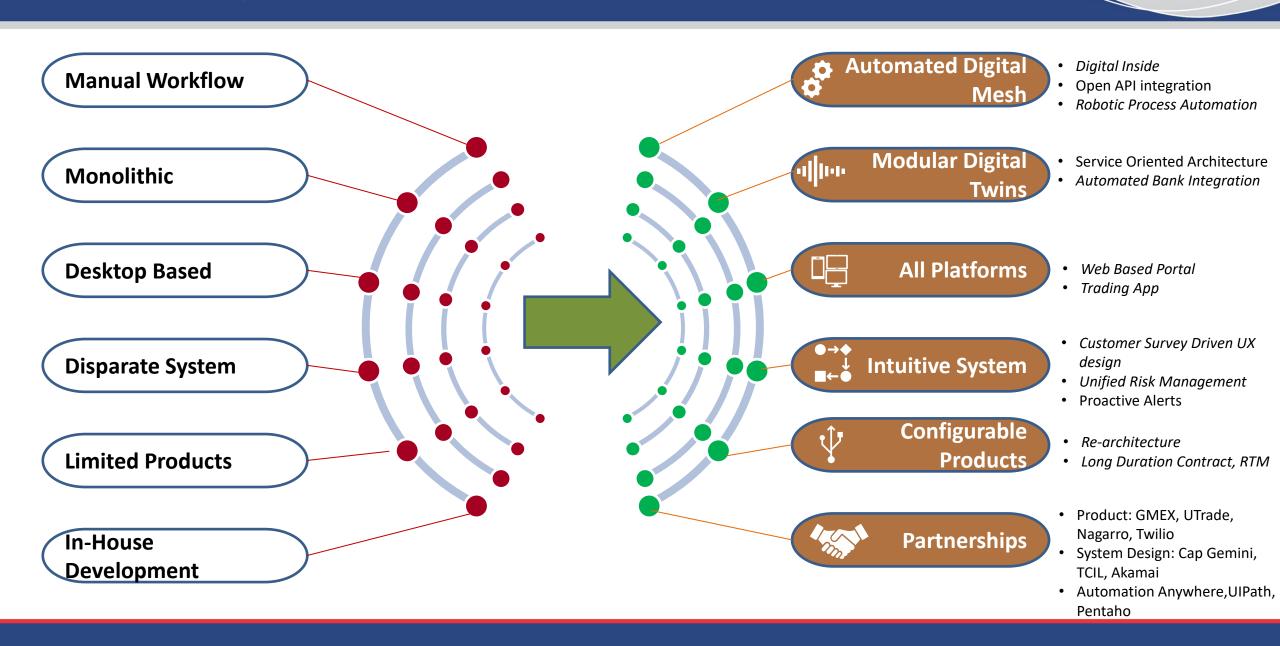
- Smart Power Procurement
- Analytics
- New Product Development



Organization capacity building – Adding resources

Technology in transformation





Smart Product/Bids





Customer Experience



S – Self-service web/mobile applications

- enable customers anytime anywhere easy access
- Intelligent process automation
 - reduce customer effort; insights to enable effective decision making
- M Matching engine optimization
 - increase social welfare
- P Product launches
 - meet the needs of all customer segments
- L Learning opportunities for our customers
 - experiential learning for customers through organizing events
- **E** Energy portfolio management solutions
 - optimize procurement cost for customers

Create effective solutions to fulfil all Power Procurement related needs of our customers

Gas Exchange



Gol vision of gas based economy

- Gol policy targets to increase share of natural gas in India's energy basket from 6.5% to 15% in 5 years.
- This would lead to Indian Gas market growing 2.5X (166 to 380 MMSCMD) by 2030.
- A robust gas trading exchange enabling seamless transactions can help GoI realize this ambitious target.

Market gaps and need

- Buyers desire price transparency, flexibility and anonymity to overcome suppliers' bargaining power.
- MoPNG has expressed the need for a Gas Trading Hub. Taken steps towards market development.

Our plan/solution

- To optimize trading value chain, plan to set up a Gas Exchange Physical hubs near Dahej, Hazira and Oduru.
- Prompt and longer duration products with delivery facilitation by the exchange.
- State of the art and proven exchange technology backed with long experience in electricity

Enablers required for success

- The history of gas market hubs globally has shown that certain steps are needed to enable development
- Few technical issues need resolution to ensure liquidity and enable efficient trading at the hub



Thank You