

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: September 11, 2020

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

Scrip Code: 540750 Symbol: IEX

Sub: Investor Presentation Q1 FY 2021

Dear Sir / Madam,

Pursuant to Regulation 30 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, please find attached an Investor Presentation for Q1 FY2021.

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

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

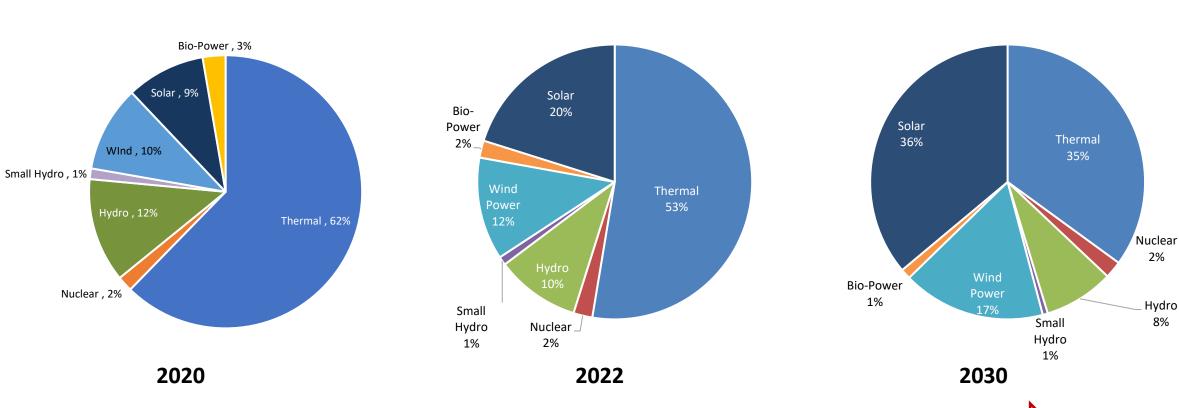
Outlook:

Peer to peer energy trading

The energy shift



Hybridization requires technology driven apps and automation



Changing Installed Capacity Mix – Increasing reliance on RE



Sector in transformation



Electricity value chain

IEX: Who are we

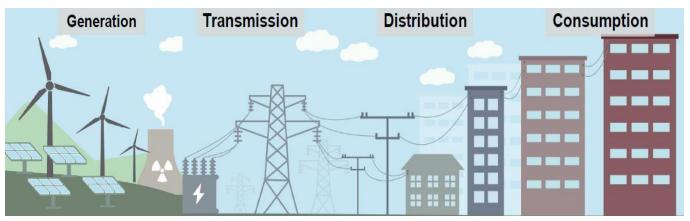
COVID - 19

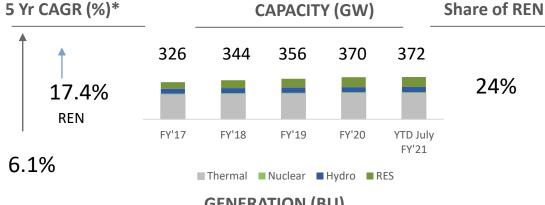
Way forward

Electricity value chain



13%





Generation de-licensed

Private sector ~46%

Merchant capacity ~20GW

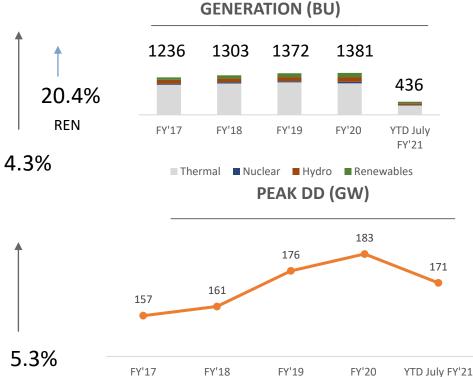
Transmission is licensed

World's largest network

Strong transmission system, congestion free market Distribution licensed

Financial health in bad shape

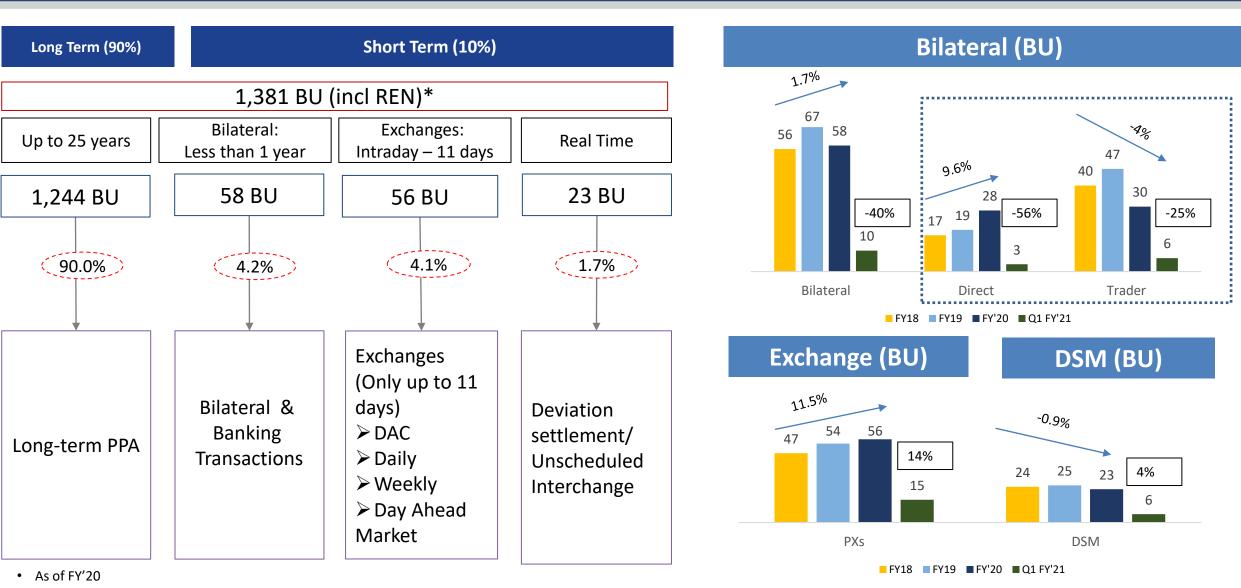
Large
capacity
additions
leading to
decline in
energy
deficit from
10% to
0.6% over
the last
decade



[•] Source: CEA; MOP 5 year vision; press, CAGR as of FY'20; Generation CAGR is for 4 years

Power sector construct



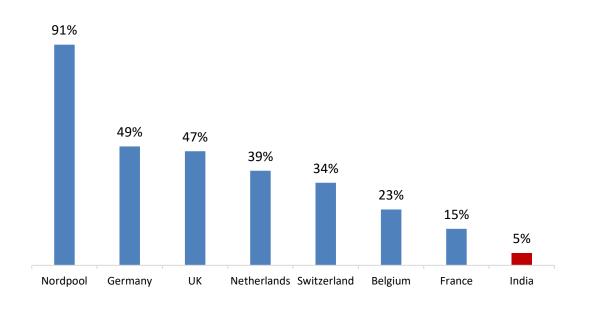


Source: CEA, CERC

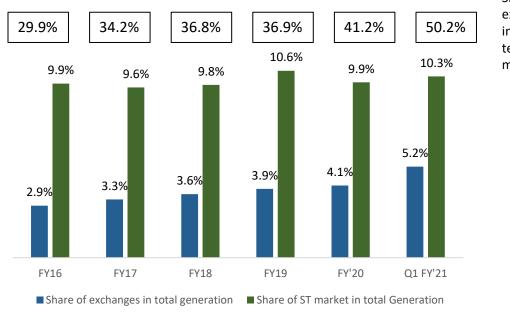
Share of power exchanges globally



Exchange market as a % of total demand – Global¹



Exchange market and ST market a % of total generation (incl Ren) – India²



Share of exchanges in short term market

Power markets in developed economies are in the range of 30-80% of total power demand vis a vis 5% in India*

Source: 1. CRISIL Study 1. CERC; CEA

** As in Q1 FY 2021

Electricity consumption bound to increase



Per capita consumption in India is 1/3rd of global average

Per capita consumption expected to double in the next 5-6 years

Economic activity will accelerate

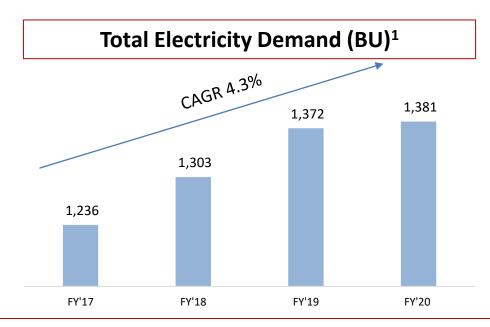
- Government envisions India as an industrial hub
- Core sector growth will drive electricity consumption

Rapid urbanization

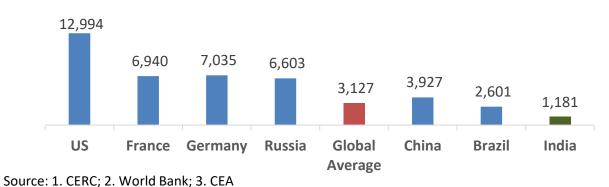
17 of 20 world's fastest growing cities in India

Consumer demand growth

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



Per Capital Electricity Consumption (KWh)²







Sector in transformation

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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% (DAM & RTM >99%)
- Electricity CAGR 32%, 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







Investments in transmissioncongestion free – One Grid One Price



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

Market Segments



Day-Ahead Market

since June,08



Price discovery: Closed , Double-sided Auction



Intraday Market & Day-Ahead Contingency

Round the clock since Jul'15



• DAC: Another window for next day, Gate closure: 3.5 hours





Continuous

Term-Ahead Contracts

since Sep,09

• For delivery up to 11 days

Daily Contracts, Weekly Contracts



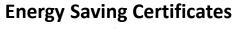


Auction

Renewable Energy Certificates

since Feb,11

• Green Attributes as Certificates. Sellers: RE generators not under feed in tariffs Buyers: Obligated entities; 1MWh equivalent to 1 REC



since 27 Sep'17

1 Escert= 1 Mtoe(Metric Tonne Oil Equivalent)



Trading Session every Tues of Week, Trading time 1300 hrs to 1500 hrs

Real-Time Market

since 1 Jun'20

- Delivery <u>within an hour</u>
- Price discovery: Closed , Double-sided Auction



Green Term Ahead Market

since 21 Aug ,2020

Intraday, DAC (commenced) Daily and Weekly (starting soon)



Building a sustainable energy economy



- India is seeing rapid transformation of energy ecosystem
 - Signatory to Paris Climate Agreement 2016
 - 40% of RE energy by 2030
 - 450 GW installed RE Capacity
 - Consumer preference shifting towards green energy



Green Term Ahead Markets



- Introduced a new market segment Green Term Ahead Markets
- Trading commenced on 21st August 2020
- Green market contracts Day Ahead Contingency, Intra Day, Daily and Weekly

Benefits

- Achieving national green aspirations
- Access to pan India market
- Integrated approach to energy + RPO
- Most competitive prices
- G-TAM + RTM to support RE integration

Way Forward

- Comprehensive green solution to buyers and sellers through launch of GDAM
- Working with government to promote investments in renewable energy through market-based system (feed in premium)

Real Time Markets



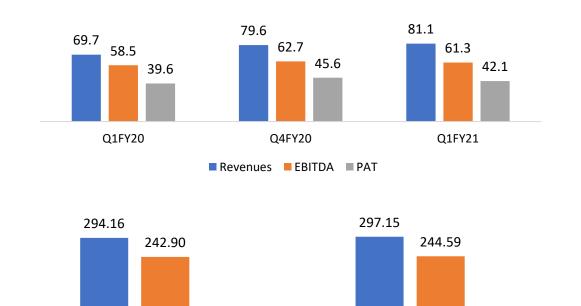
- Introduced a new market segment Real Time Markets
- Trading commenced on 1st June 2020
- Market Features
 - 48 bid sessions during the day; Each bid session for a duration of 15 minutes
 - First bid session starts at 2245 hrs
 - Double-sided anonymous auction bidding process
 - Exchange manages risk management
- Benefits
 - Manage power demand-supply variation
 - Provide an opportunity to generators to sell their surplus power/un-requisitioned capacity
 - Help grid operators to enhance overall safety and security of the grid

Traded 515 MU in June 2020

Robust financial performance



Consolidated Financials Rs Cr



17.8

FY 2020

Breakup of standalone revenues (%)	Q1 FY 2020	FY 2019	Q1 FY 2021	FY 2020
Transaction Fees	81%	80%	77%	80%
Admission and Annual Fees	6%	6%	5%	6%
Other Income	13%	14%	18%	14%

Source: Company
Q1 FY21 includes Rs 5 Cr contribution towards PM Cares Fund

16.5

FY 2019

Robust business model and financial strength





Sector in transformation

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Way forward

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







Sector in transformation

Electricity value chain

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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
- Exchange based Ancillary
 Market
- Green Day Ahead Markets
- Banking contracts

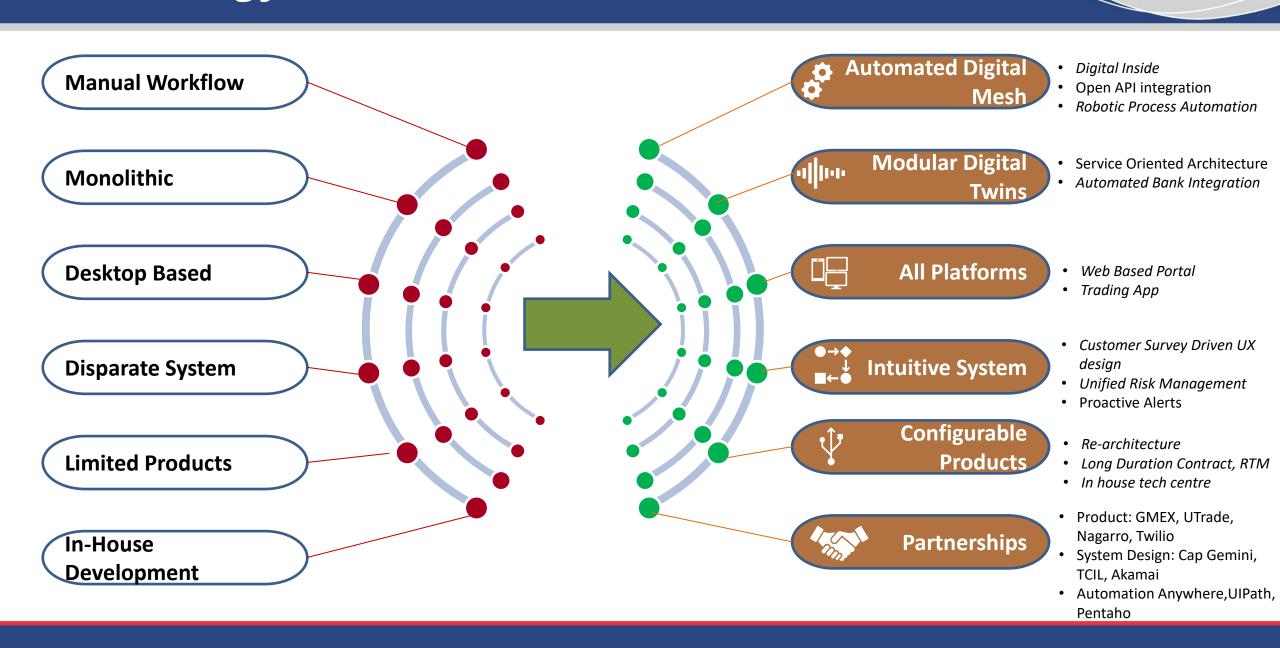
Tech based

- Smart Power Procurement
- Analytics
- Integration of RE with conventional power through exchange



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 gasbased 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, 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