

The Manager

Symbol: IEX

**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: February 11, 2020

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

Scrip Code: 540750

**Subject: Investor Presentation Q3 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 made during meeting with the Analysts/Institutional Investor(s).

The above information is also 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

## IEX: Who we are

Sector transformation

Electricity value chain & Power market structure

## Who we are



- Nationwide automated platform providing a competitive and transparent marketplace for physical delivery of electricity
- Commenced operations in 2008, CAGR 35%, CERC regulated
- India's leading power exchange, Market Share: **97**%
- 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

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

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

#### **VISION**

Create marketplaces for efficient use of the energy resources

#### **MISSION**

To operate an energy marketplace that is transparent, competitive and reliable, for the benefit of all stakeholders

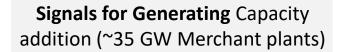
# **Benefitting Power Sector....and the nation**



- 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







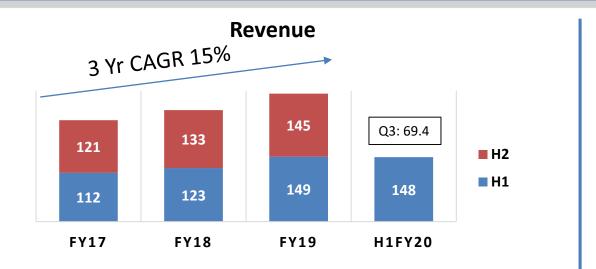
Investments in transmissioncongestion free – One Grid One Price

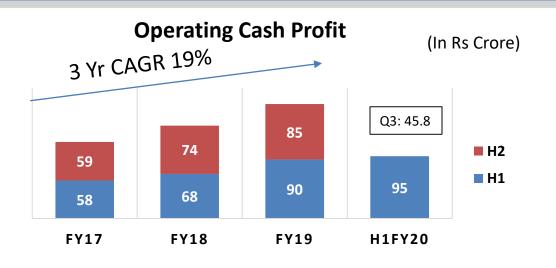


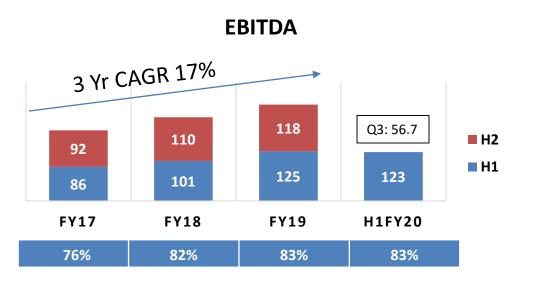
- Lower power prices for discoms, end consumers.
- Avoids buying under take-orpay contracts.
- **Flexibility** on 15-min basis

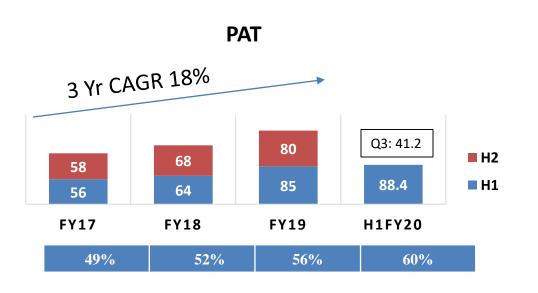
# Robust financials & operational excellence











<sup>\*</sup> Q3'20 financials are consolidated to include financials of Indian Gas Exchange; wholly owned subsidiary of Indian Energy Exchange incorporated on November 06, 2019.



IEX: Who we are



## **Sector transformation**

Electricity value chain & Power market structure

## **Sector transformation drivers**



#### **D**ecarbonization



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

#### **D**igitization



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

Paris Climate Agreement — Renewable energy to constitute 40% of total installed capacity base of 1250 GW by 2030

Hybridization requires technology driven apps and automation





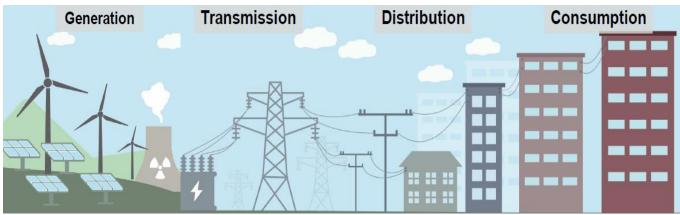
IEX: Who we are

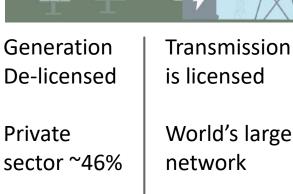
Sector transformation

**Electricity value chain & Power market structure** 

# **Electricity value chain**







Generation in distress

World's largest

Pvt sector ~8%

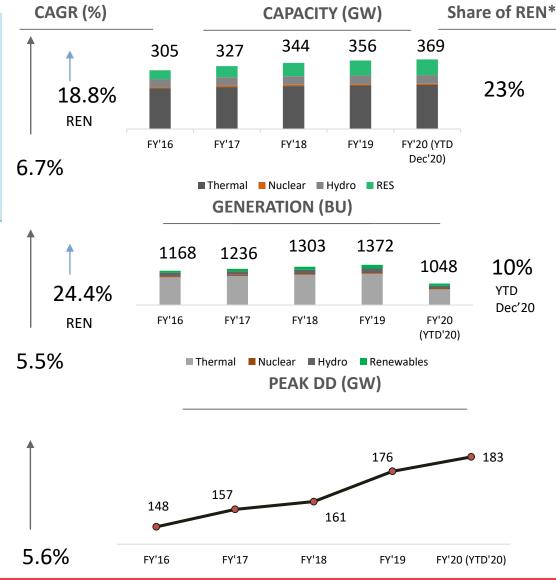
Distribution licensed

Rs 88,795 Cr O/S\*

**DISCOM losses** ~Rs.28,000 Cr

AT&C Loss

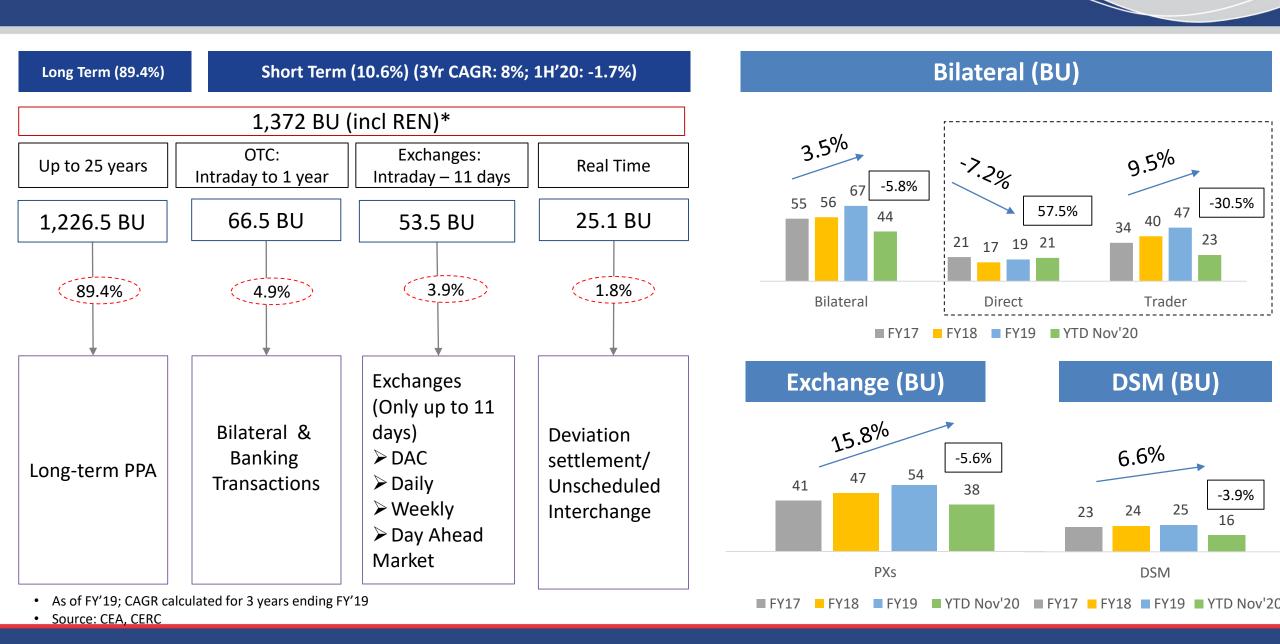
Energy deficit decreased from 10% to 0.7% over the last decade



- As of Dec 2019; CAGR till FY'19, calculated as 4 yr CAGR except for Generation (3 year CAGR)
- Source: CEA; MOP 5 year vision; press

## **Power market structure**





# **Electricity consumption set to increase**



- India a third of global average in per capita consumption
- Economic activity will accelerate
  - Government envisions India as a \$5tn economy by FY'25
  - Manufacturing contribution up from 15% to 25%
  - 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

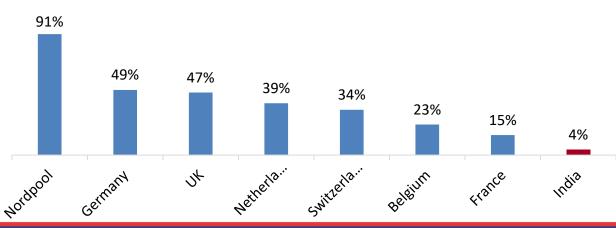


# Markets have immense potential

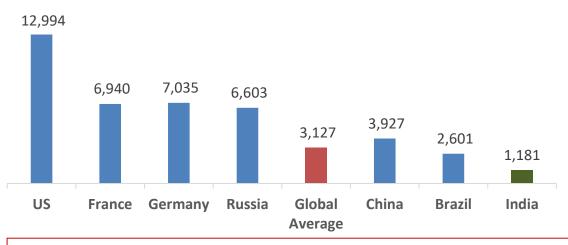


- Electricity demand grew 5.6% in the last 3 years
- India's per capita electricity demand is 1/3<sup>rd</sup> global average; projected to increase 40% in next 5 years
- ~ 45 GW of PPA's retiring in the next 8 years
- ~4.3 GW of PPA's (LT and MT) expiring in the next 8 years

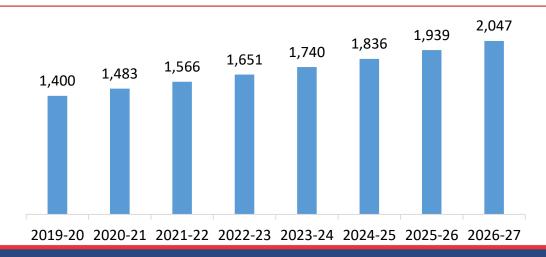
#### Exchange market as a % of total demand – Global<sup>4</sup>



#### Per Capital Electricity Consumption (KWh)<sup>2</sup>



#### **Expected Electrical Energy Requirement (BU)**<sup>3</sup>







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# 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**

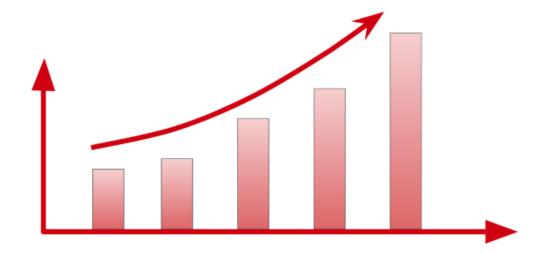


#### **New Product Launches**

- Real time electricity market
- Cross Border Trade
- Longer Duration Contracts
- Green TAM
- Exchange based Ancillary
   Market
- Gross Bidding

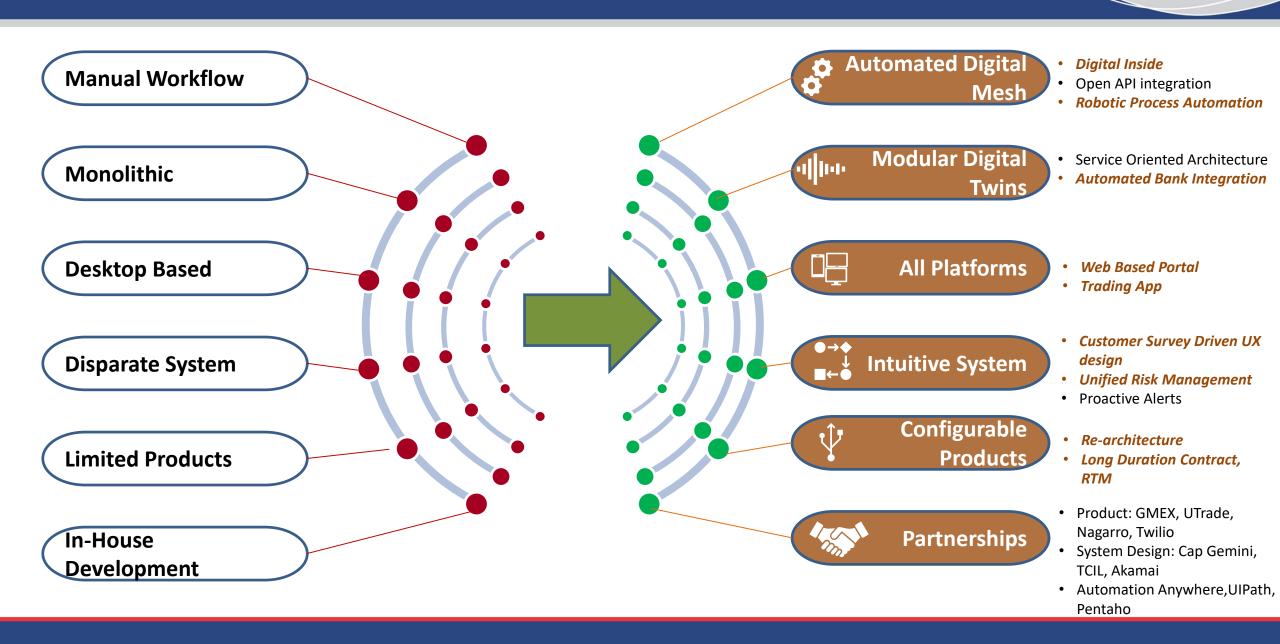
#### **Tech based**

- Smart Power Procurement
- Analytics
- New Product Development



# **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 and Kakinada.
- 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