



Dated: November 29, 2019

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

**The Manager
National Stock Exchange of India Ltd
Listing Department
Exchange Plaza, 5th Floor, Plot no C/1
G Block, Bandra Kurla Complex
Bandra (E), Mumbai-400 051**

Scrip Code: BSE- 540750; NSE- IEX

Subject: Analyst/Investor Presentation

Dear Sir / Madam,

Pursuant to Regulation 30 of the SEBI (LODR) Regulations, 2015, please find enclosed the presentation given at Analyst Meet held on November 28, 2019 in Mumbai.

The above information is also available on the website of the Company: www.iexindia.com.

This is for your information and records.

Thanking You

Yours faithfully,

For Indian Energy Exchange Limited

**Vineet Harlalka
Company Secretary & Compliance Officer**



Encl: as above

www.iexindia.com

Indian Energy Exchange Limited

Registered & Corporate Office: Unit No. 3, 4, 5 & 6, Plot No.7, Fourth Floor, TDI Centre, District Centre, Jasola, New Delhi – 110025

Tel: +91-11-4300 4000 | Fax: +91-11-4300 4015

CIN: L74999DL2007PLC277039

IEX Analyst Meet

28.11.2019



In this presentation

IEX : Who we are

Sector transformation, our strategy

Electricity value chain, New product launches

Technology - our differentiator

Customer experience

IEX a world class company

Regulatory enablers and IEX as a corporate citizen

New initiative

Way forward & Summary

Vision and Mission

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



Who we are

- Automated, open and transparent platform for physical delivery of electricity
- Commenced operations in 2008, CAGR 33%, 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 | **55** Discoms (all) | **100+** ESCert Entities

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

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

Transparency

Liquidity

Competition

IEX 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



Generation

▶ **Signals for Generating Capacity** addition (~35 GW Merchant plants)



Transmission

▶ **Investments in transmission-**
congestion free – One Grid One
Price

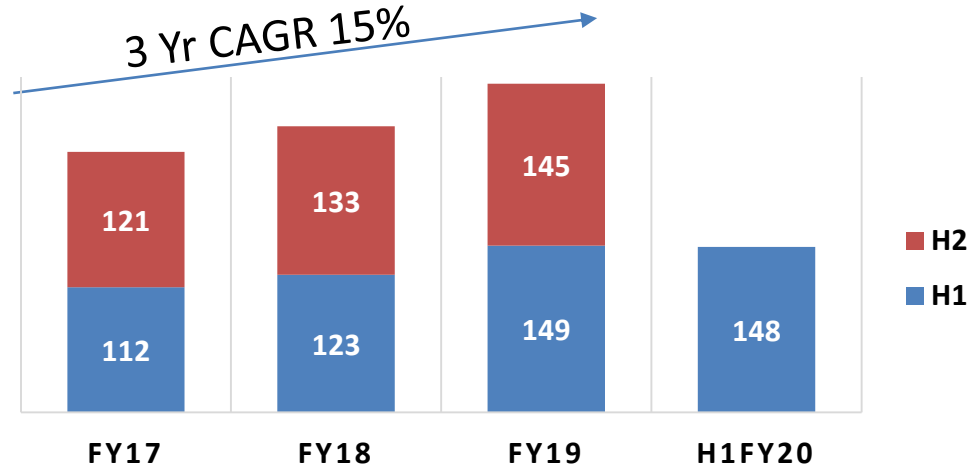


Distribution

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

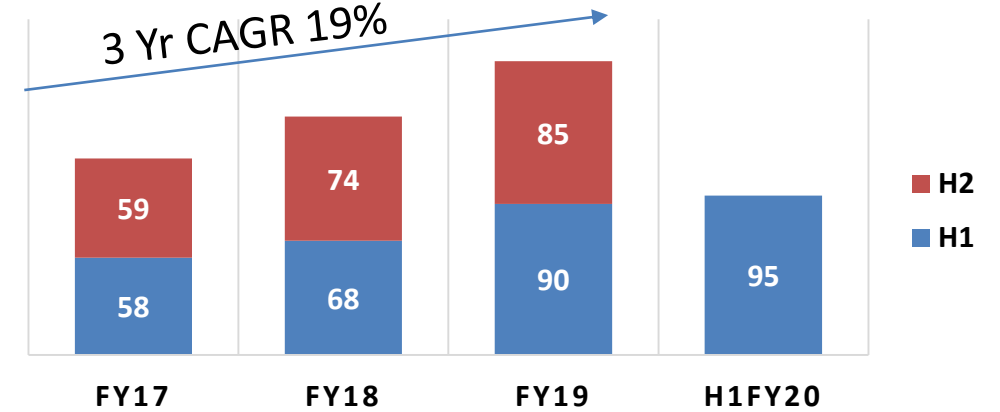
Robust financials & operational excellence

Revenue

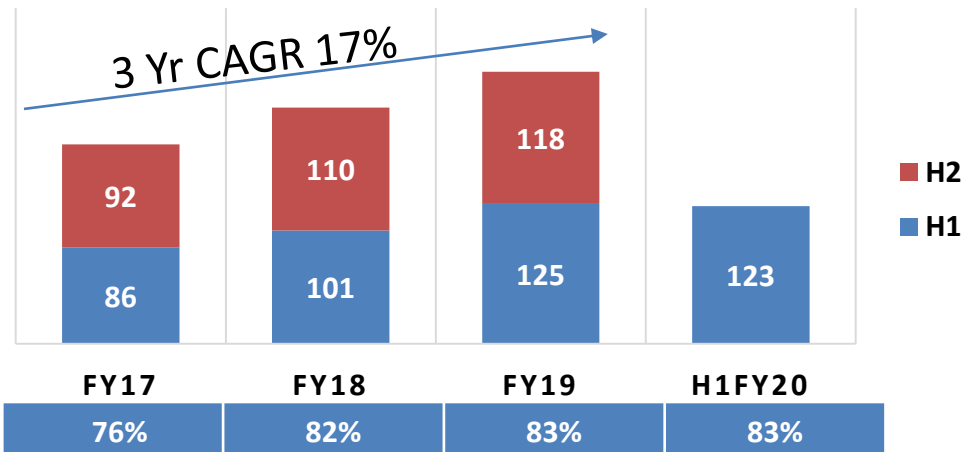


Operating Cash Profit

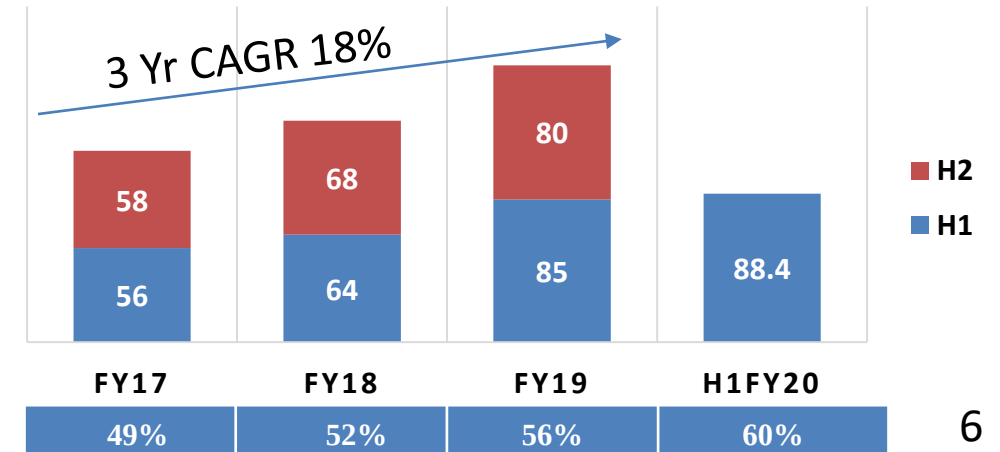
(In Rs Crore)



EBITDA



PAT



Top 10 shareholders

S. No.	Name of Shareholder	No. of Shares	% of Shares
	Top 10 Shareholders		
1	TVS SHRIRAM GROWTH FUND 1B LLP & Group	431	14.38
2	DALMIA POWER LIMITED	300	10.02
3	MIRAE ASSET & Group	163	5.44
4	WESTBRIDGE CROSSOVER FUND, LLC	143	4.78
5	IIFL SPECIAL OPPORTUNITIES FUND & Group	143	4.76
6	SMALLCAP WORLD FUND, INC	142	4.74
7	RIMCO (MAURITIUS) LIMITED	136	4.55
8	MOTILAL OSWAL & GROUP	125	4.17
9	RURAL ELECTRIFICATION CORPORATION LTD	123	4.10
10	THE PABRAI INVESTMENT FUND& Group	115	3.83
A.	Total of top 10 shareholders holding	1,821	60.77
B.	Other shareholders holding	1,175	39.23
	Total Shareholding (A+B)	2,996	100.00

(In lakh)		
Category	No of Shares	% of Shares
FOREIGN INVESTMENT	1,323	44.18
- FOREIGN PORTFOLIO – CORP	858	28.66
- FOREIGN CORPORATE BODIES	452	15.08
- NON RESIDENT INDIANS	13	0.44
OTHERS	1,673	55.82
Total	2,996	100.00



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Way forward & Summary

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

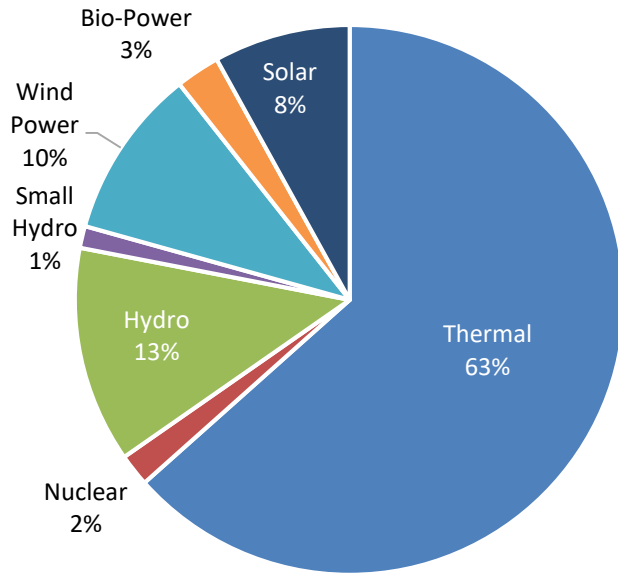
Outlook:

- Peer to peer energy trading

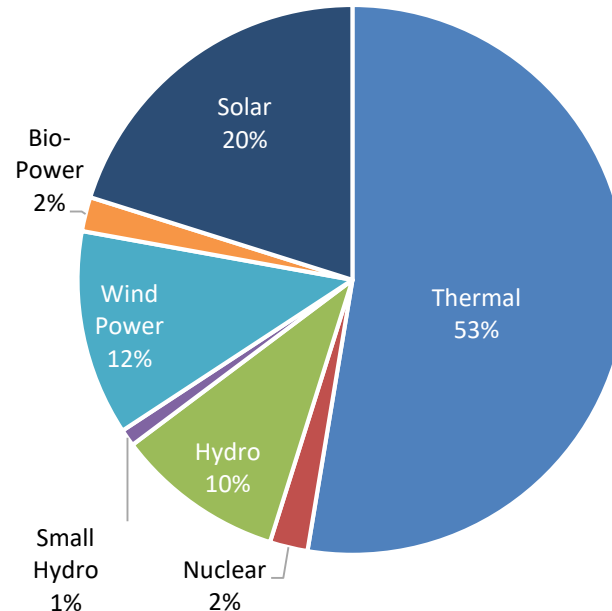
Sector transformation drivers

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

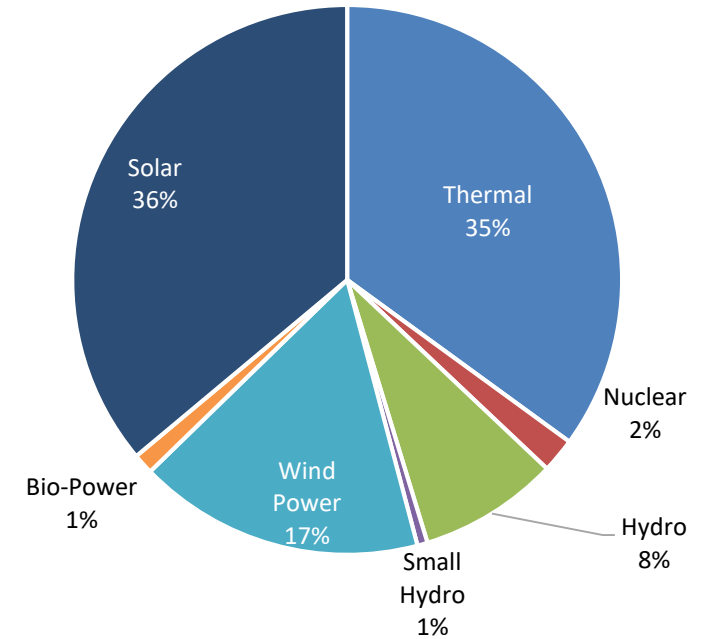
Hybridization requires technology driven apps and automation



2019



2022



2030

Changing Installed Capacity Mix – Increasing reliance on RE

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



IEX : two dimensional strategy

Deepen power market

- Maximize DISCOM and Open Access volumes
- Longer duration contracts upto 1 year
- Cross Border Trade
- Real Time Markets
- Green Market
- Ancillary Markets

Tech based new opportunities

- Smart Power Procurement
- Analytics
- New Product Development
- Gas exchange
- Business acquisitions





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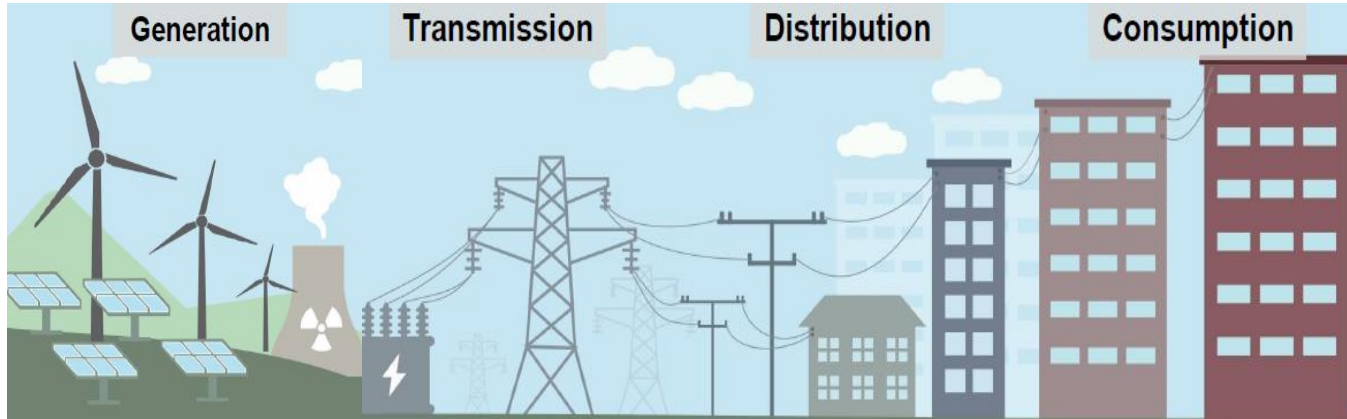
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Way forward & Summary

Electricity value chain



Generation
De-licensed

Transmission
is licensed

Distribution
licensed

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

Private
sector ~46%

World's largest
network

Rs 81,468 Cr O/S*

Generation
in distress

Pvt sector
~8%

DISCOM losses
~Rs.28,000 Cr

AT&C Loss

CAGR (%)

18.8%
REN

6.7%

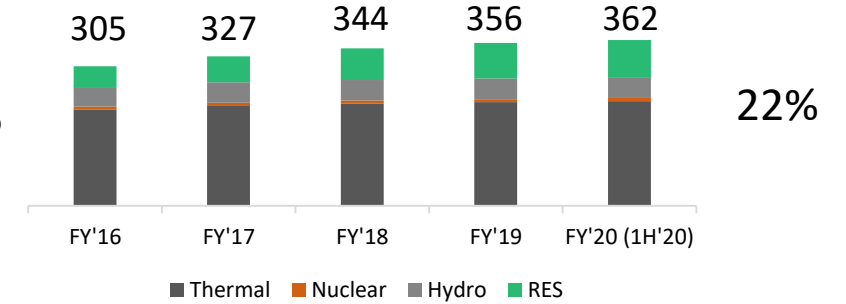
24.4%
REN

5.5%

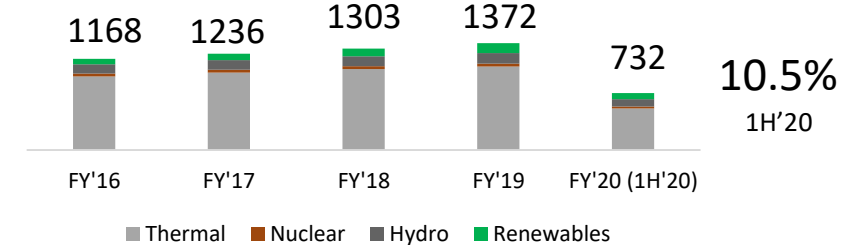
5.6%

CAPACITY (GW)

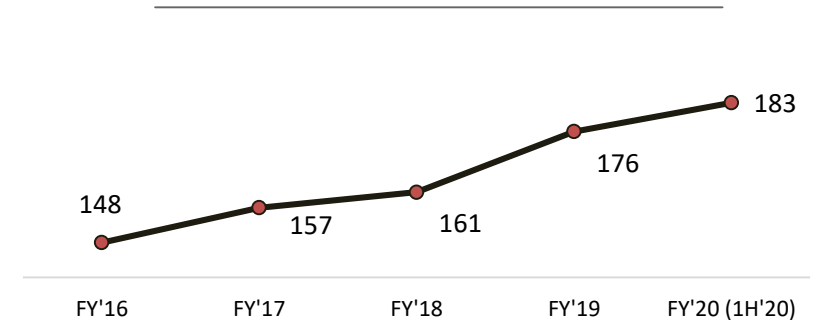
Share of REN*



GENERATION (BU)



PEAK DD (GW)



- As of Sept 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

Long Term (89.4%)

Short Term (10.6%) (3Yr CAGR: 8%; 1H'20: -1.7%)

1,372 BU (incl REN)*

Up to 25 years

1,226.5 BU

89.4%

OTC:
Intraday to 1 year

66.5 BU

4.9%

Exchanges:
Intraday – 11 days

53.5 BU

3.9%

Real Time

25.1 BU

1.8%

Long-term PPA

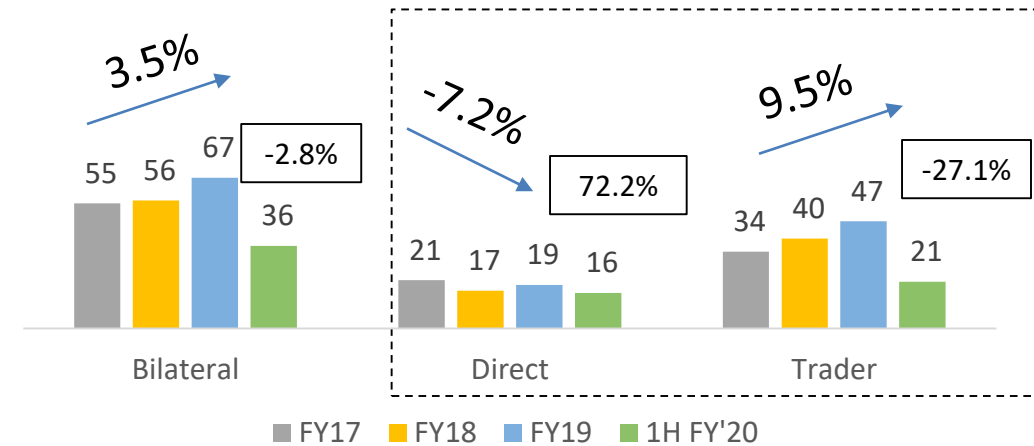
Bilateral &
Banking
Transactions

Exchanges
(Only up to 11
days)
➤ DAC
➤ Daily
➤ Weekly
➤ Day Ahead
Market

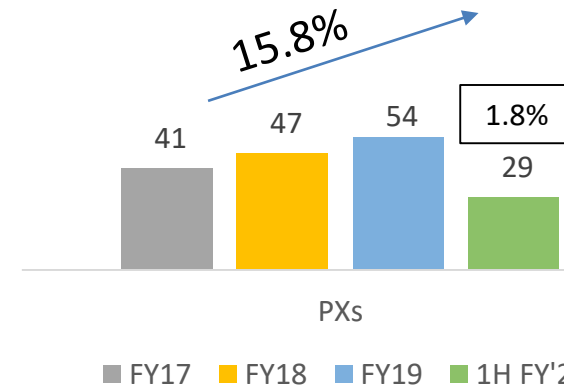
Deviation
settlement/
Unscheduled
Interchange

- As of FY'19; CAGR calculated for 3 years ending FY'19
- Source: CEA, CERC

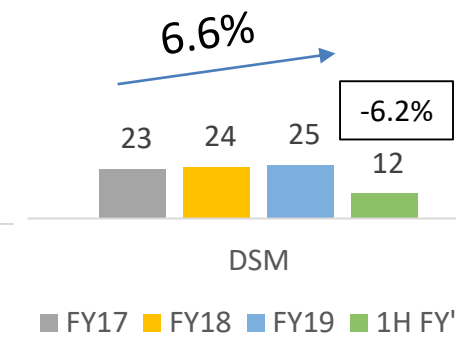
Bilateral (BU)



Exchange (BU)



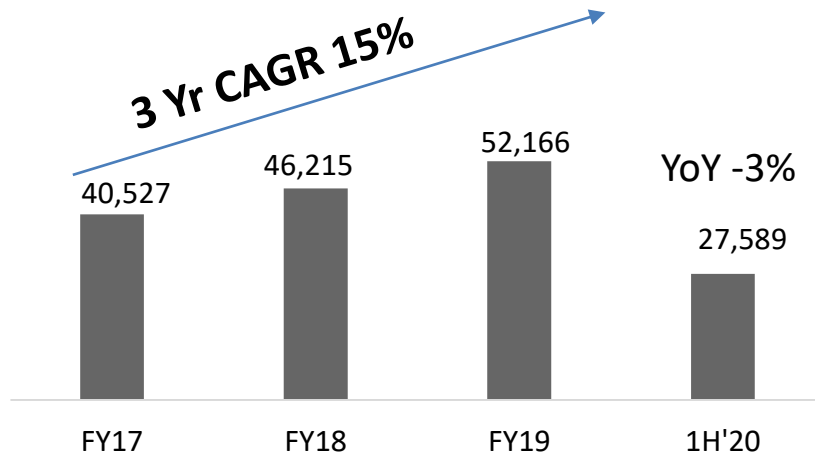
DSM (BU)



1H'20 volumes performance

Product	Q1'20	YoY	Q2'20	YoY	1 H'20	YoY
DAM	11,985	-14%	12,963	-6%	24,947	-10%
TAM	1,009	113%	1,632	425%	2,641	236%
Electricity	12,994	-10%	14,595	4%	27,589	-3%
REC	1,133	-44%	1,320	-58%	2,453	-52%
Total	14,126	-14%	15,915	-7%	30,042	-11%

Electricity cleared volumes (MU)



- **Macro-economic factors**
 - IEX correlation to: IIP: 81.3%; Core sector growth: 99.6%; Electricity demand: 86.1%
- **Union Elections of May 2019**
 - 1.5BU lost in April and May 2019; 13% increase in bilateral vol in the same time
- **Extended Monsoons**
 - Wettest Sept in more than 100 years; impact on electricity demand and increased hydro generation

- MCP declined 14% Apr to Sept'19
- OA volume (except CPP) increased 68% (Apr to Sept 19)

New Product Launches

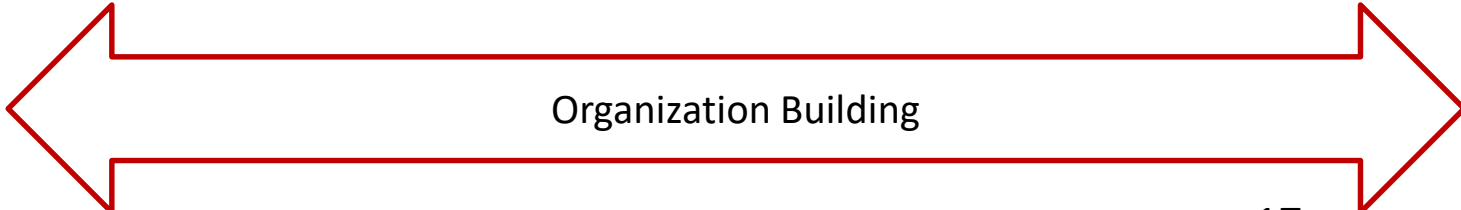
- Real time electricity market
- Cross Border Trade
- Longer Duration Contracts
- Green TAM
- Exchange based Ancillary Market
- Gross Bidding

DISCOM

- Power procurement cost optimization
- ST Bilateral replacement
- Engaging Marcom

Open Access

- Addition of clients
- Customer outreach
- Marketing initiatives
- Policy Advocacy



Organization Building



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Way forward & Summary

Creating a customer centric energy marketplace through efficient and state of the art Technology Solutions





Customer Centric

- Intuitive Design
- Secure
- Responsive

Customer survey

Web Based integrated Portal

Seamless Communication

Security as a service (TCIL, Akamai, F5)



Efficient

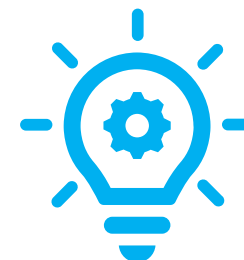
- Efficient Matching Algorithm
- Automation
- Low Latency

Global Standard Algorithm (MILP, NSide)

Digital Inside

RPA (Automation Anywhere UIPath)

Automation Testing



State of the Art

- Analytics
- Future ready

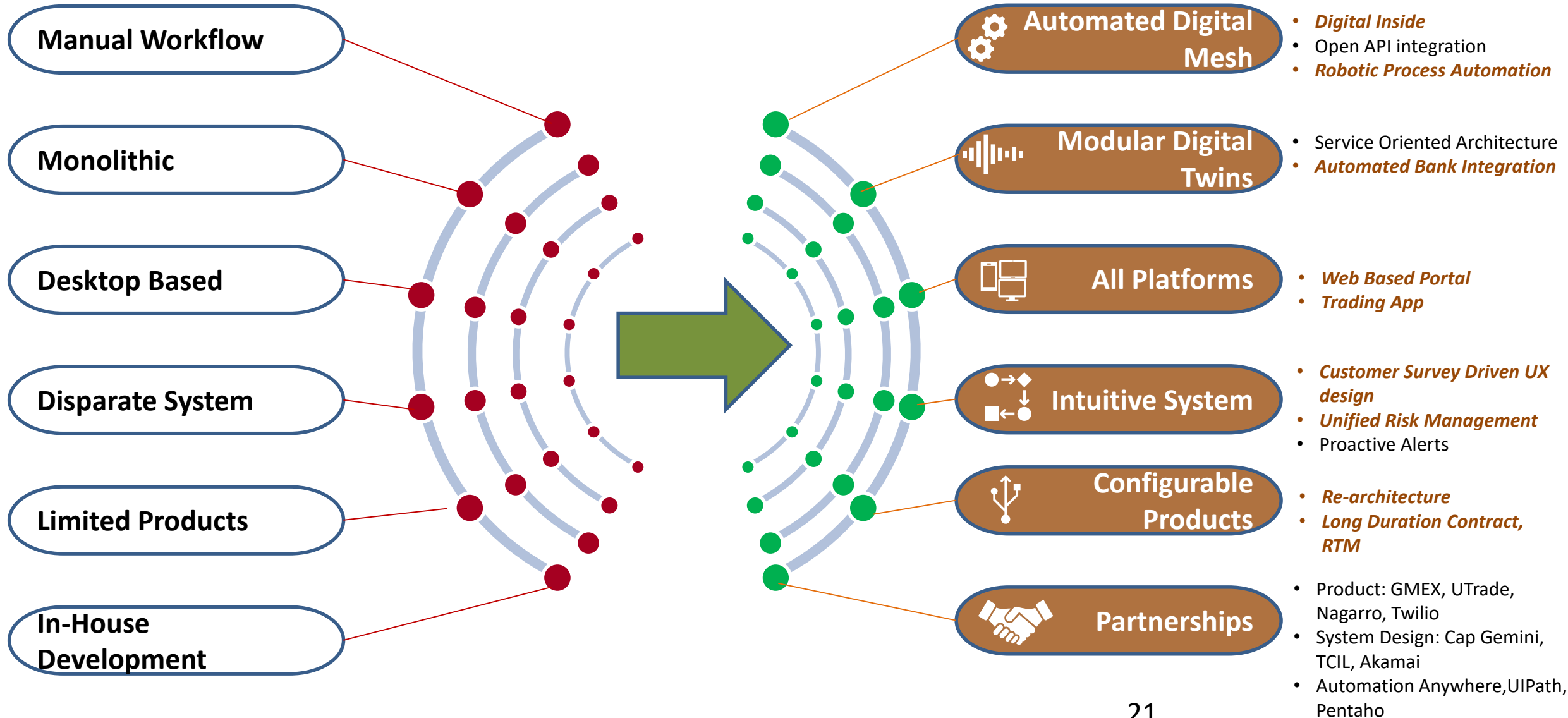
Forecasting tools (AI/ML)

Service oriented Architecture

Block chain

P2P exchange

Technology in transformation



Smart Product/Bids





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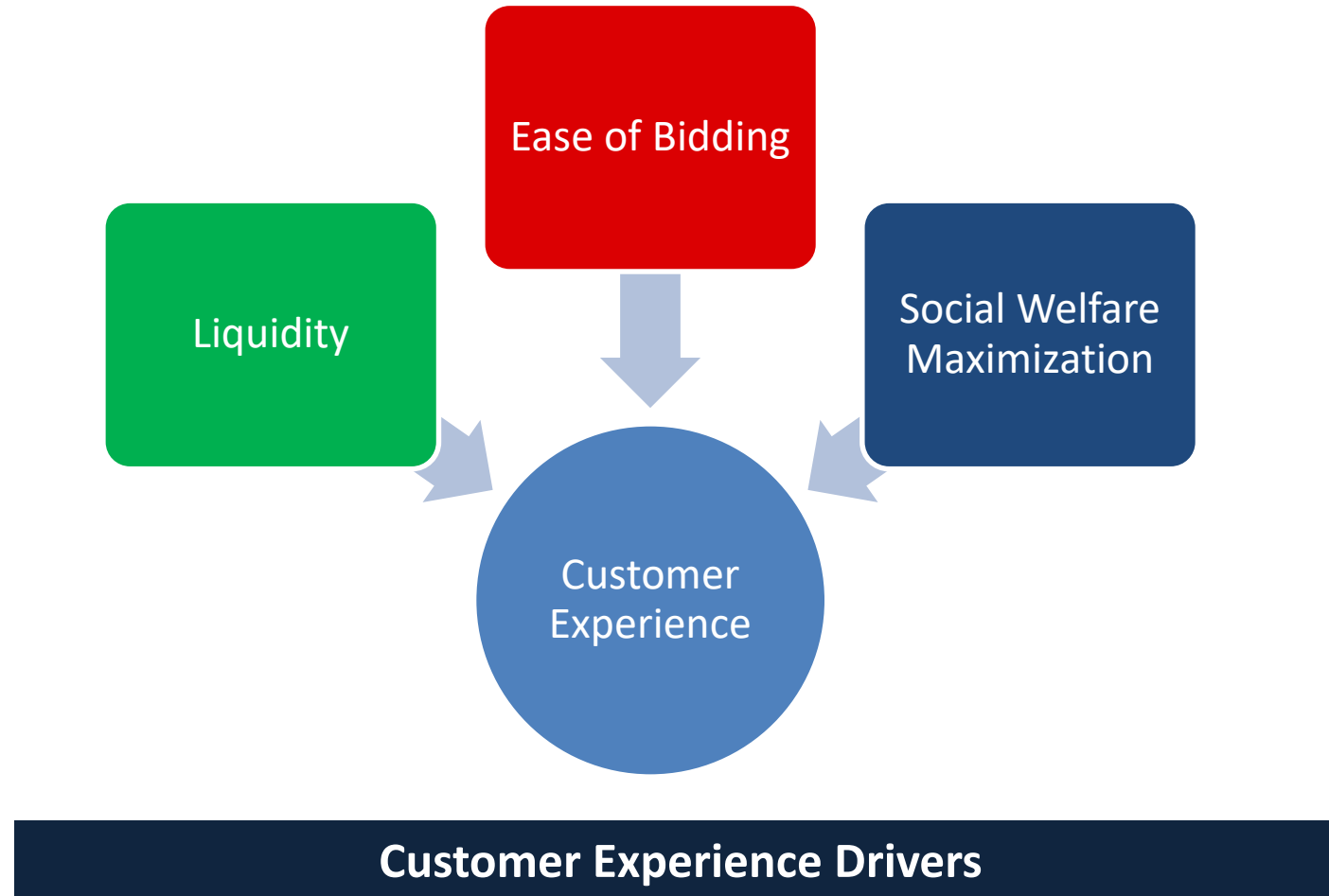
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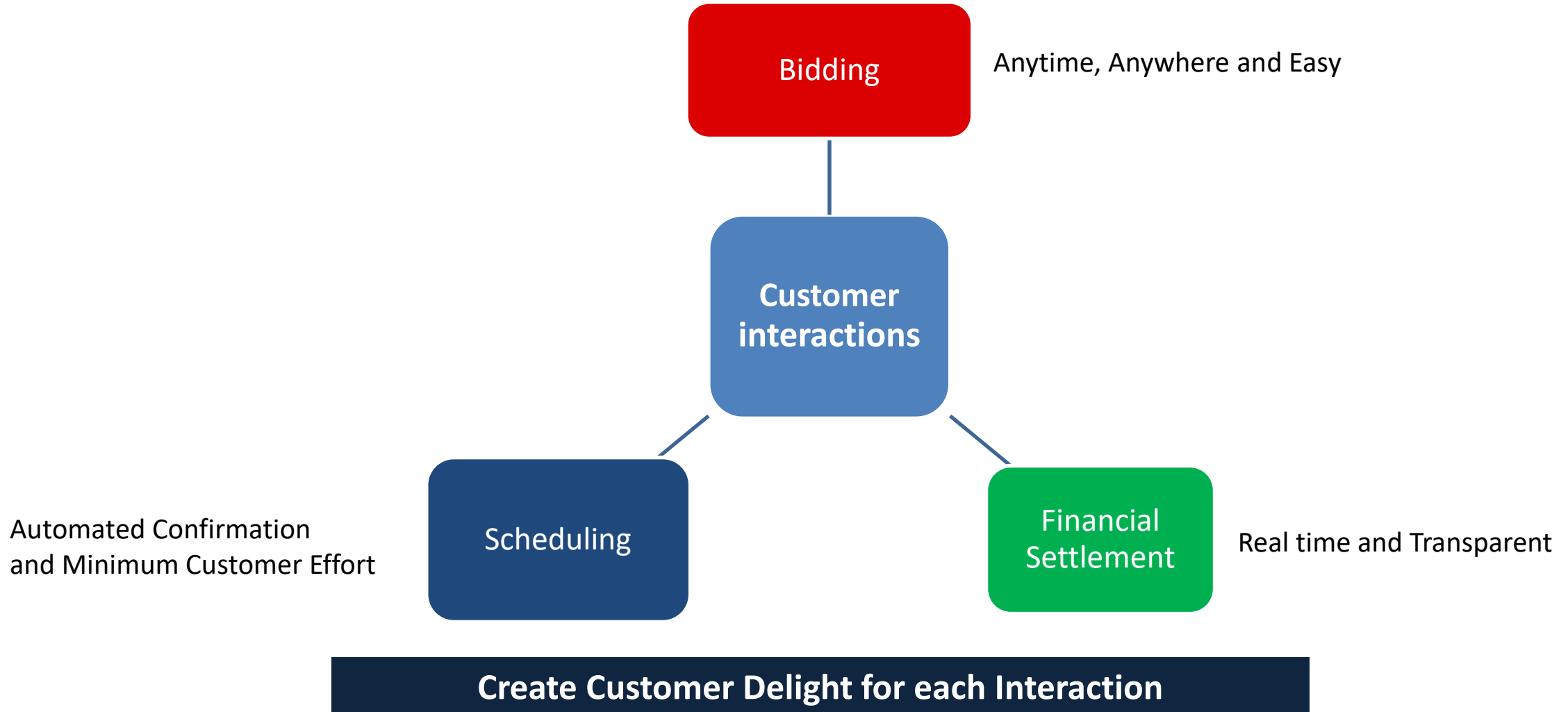
New initiative

Way forward & Summary

Provide the most intuitive, reliable and cost effective power procurement option



Customer Interactions with Exchange



S – Self-service web/mobile applications

- enable customers anytime anywhere easy access

I – 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



Key Pillars of Transformation



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VISION

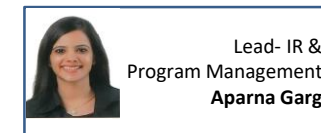
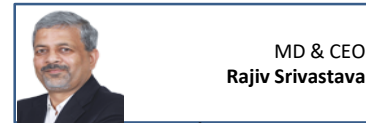
To support IEX in becoming the most preferred Energy Market Place by attracting, recruiting, developing and retaining a high potential, high performing and highly engaged team of employees



MISSION

To be recognized as a trusted and valued business partnering function which is employee focused and delivers best in class HR processes and services through continuous improvements and innovations

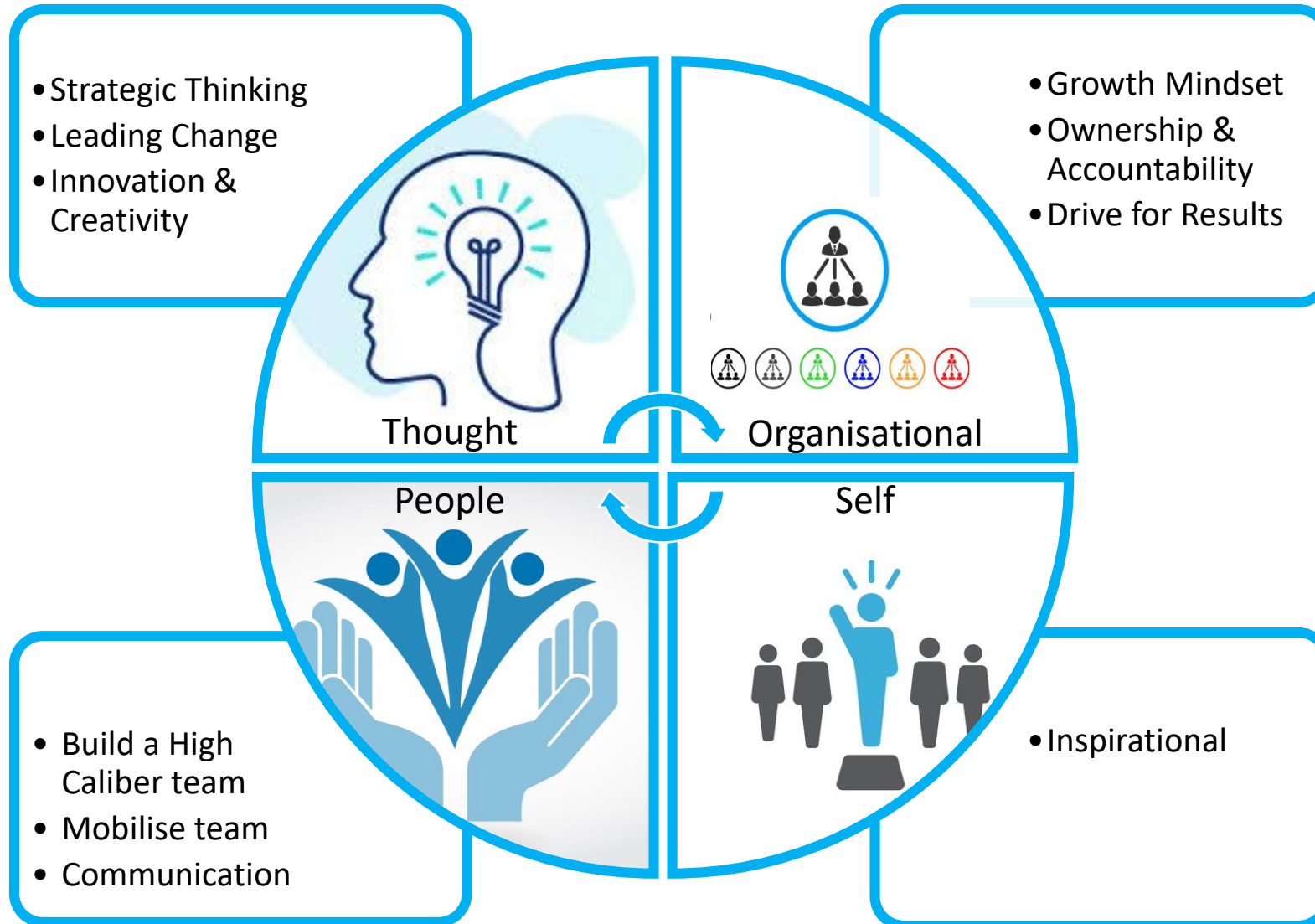
IEX Leadership Team



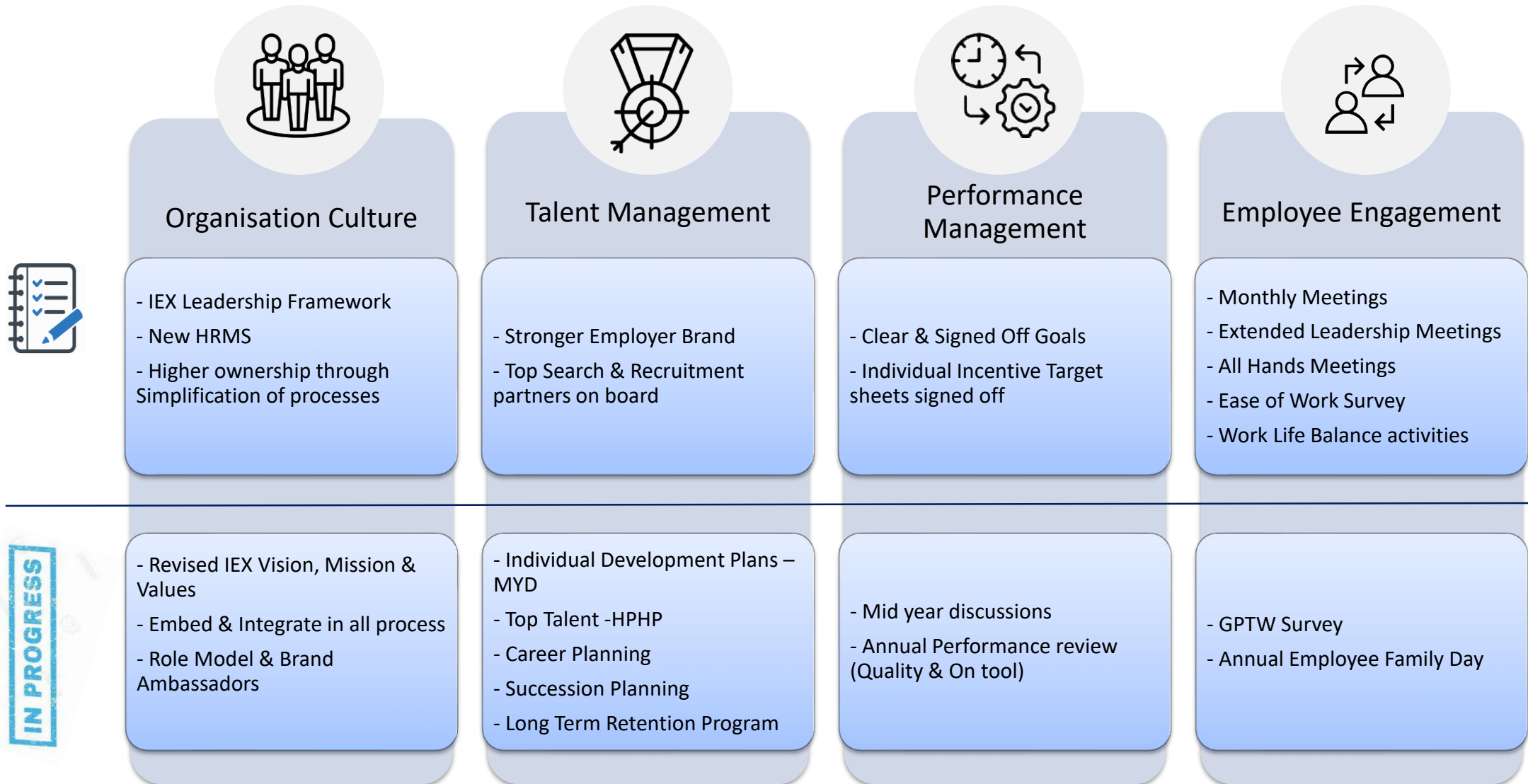
- More than ~200 years & ~50 Companies experience
 - Average experience ~23 years
 - Balance of Power, IT & Other Industry experience
 - From best of the companies
- A complimentary mix



IEX Leadership Framework



Way forward





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Way forward & Summary

GENERIC

- SAUBHAGYA – 24x7 Power for All
- Ultra Mega RE Parks
- Generator's Distress Mitigation
 - Payment security Order (Mandatory LC)
 - Sanctity of contracts
- Uday 2.0 – enabling Discoms become sustainable

MARKET

- 5 Year Vision document (draft)
- Electricity Act Amendment
- National Tariff Policy
- MoP Committee on 'Deepening of Power Markets in India'
- New SHAKTI Policy allowing allocation of coal to Merchant Power Plants

- Linking of DSM Prices with IEX prices
- National Open Access Registry for Gate Closure time reduction
- Rationalization of Transmission Charges (new draft Transmission Charge Regulation)
- Resolution of SEBI/CERC jurisdiction issue
- CBET Guidelines (new guidelines included trade through PX)
- Long-term PPAs for base load (draft Tariff Policy)

1. **Long Duration Contracts/Electricity Derivatives** : Jurisdiction Issue resolved b/w SEBI and CERC; Both Regulators filed Joint application before SC to withdraw appeals.
2. **Cross Border Trade in DAM & TAM**: CEA and POSOCO to issue Procedures; Petition for CBTE-TAM already filed with the Commission
3. **Real Time Market**: CERC to finalize Regulations based on public comments; Expected Start Date : Jan20.
4. **Green Market**: Waiting for CERC Approval on Green TAM petition
5. **New Bid Types in DAM**: Final hearing completed
6. **Exchange based Ancillary Market**: Draft regulations awaited

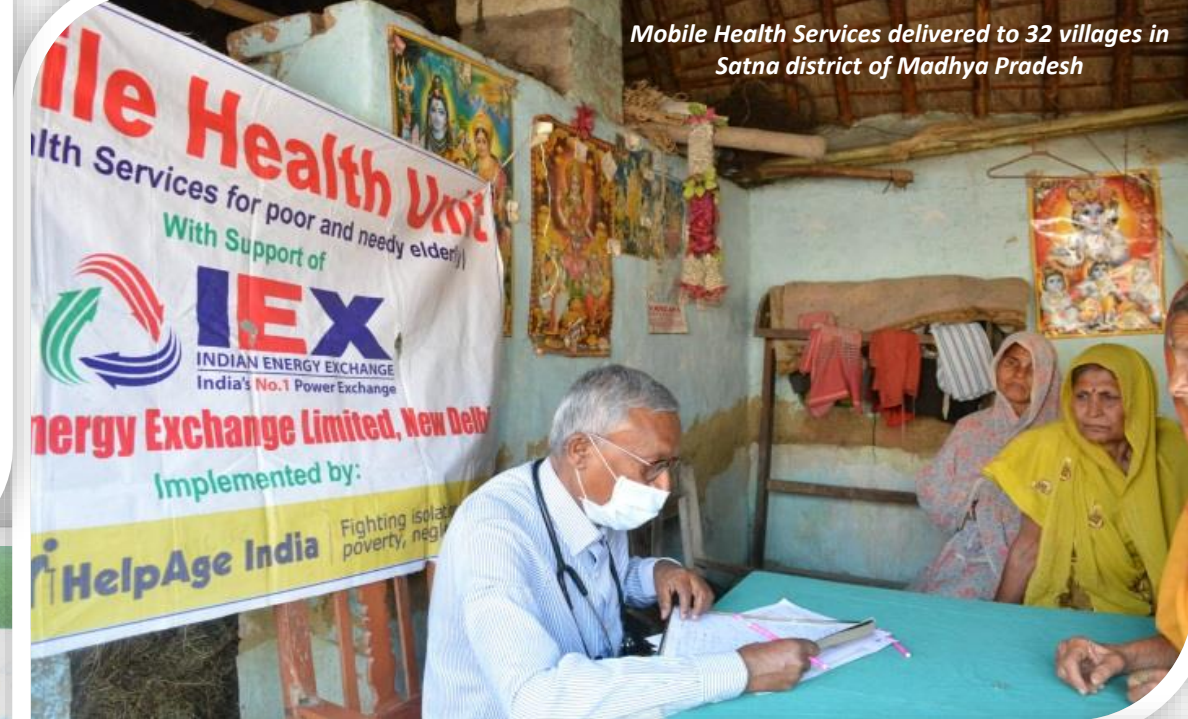




School bus to Isha Vidhya Rural School, Tamil Nadu



Smile Twin e-Learning Programme with Smile Foundation in Delhi-NCR



Mobile Health Services delivered to 32 villages in Satna district of Madhya Pradesh



Mid Day Meals to 5,000 School Children in UP with Akshaya Patra Foundation



Skilling of Solar Technicians



10 KW Solar PV Systems at four Isha Schools in Tamil Nadu



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Way forward & Summary

Govt vision of gas based economy

- Govt 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 Govt 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



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Way forward & Summary

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 basket of India
- Energy efficiency technology solutions



- **Very interesting phase in our journey**
 - energy space is transforming at a fast pace
 - demand well positioned to grow
- **IEX has developed 360 plans to transform the energy basket of India**
- **All execution mode now!!**



Thank You!