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Transformation drivers

- 1) Decarbonization use of solar & wind ,RE (renewable energy)
- 2) Decentralisation RE a threat to centralized energy productn
- 3) Digitization

4) Democratization- peer 2 peer energy trading

Changing energy mix 2020/ 2022 /2030 % of contribution Thermal 62 /53 /35 Wind 10 /12 /17 Solar 9 / 20/ 36 Hydro 12 / 10 /8

Electricity value chain 4 parts Generation - Transmission - Distribution - Consumption

Power sector construct Long term 90% Short term 10%

Power markets in developed countries are in range 30 - 80% of total power demand ,India 5%

Share of exchange in total generation 2016 - 2.9 % 2021 - 5.2% Share of ST market in total generation 2016 - 9.9% 2021 - 10.3% Exchange mkt & ST MKT as % of total gen 2016 29.9 2021 50.2 Electricity consumption to increase Per capita consumption India 1/3rd global avg,to double over 5 yrs - Core sector growth ,industrializationrapid urbanization to drive demand Last mile connectivity- Saubhagya ,power for all 24/7 Demand 2017 - 1236 BU 2020 - 1381 BU

#stocks

Per capita electricity consumptn (KWh) US 12994 Brazil 2601 China 3927 Global avg 3127 India 1181

IEX India leading power Xchange platform,mkt share 95% Avg daily trade 6000+ MW Record day vol 308 MUs

Customer Industries 4000+ Discoms 55+ ES Cert 100+ Generators 500+ REs 1500+

#IEX Benefits Benchmark prices for all electricity transactions Transparent mech for price discovery High liquidity on Xchnage ensure low cost, assured supply One grid one price Lower cost for discoms end users Flexibility on 15 min basis

Market segments Day ahead mkt ,Intraday ,Term ahead 11 days, RE certification, ES Cert ,Real time within an hour

India signatory to Paris agreement 2016 40% RE by 2030 450 GW installed RE capacity Consumer demand for green energy New Green term ahead mkt,launched Aug 2020

Real time market segment Launched Jun 20 48 bid sessions intraday,15 min each starting 22.45, anonymous bidding

Benefit - manage demand supply ,generators can sell excess/surplus capacity ,Enable grid operators to enhance safety/ security of grid

New launches

Cross border trade ,green day ahead mkt, longer duration contract ,banking contracts ,gas exchange Maharashtra discoms turned to Xchanges ,shunned costly PPAs in Apr 2020

IEX transaction vols up 4x 2011 to 20 India electricity mkt dominated by Longterm PPA ~90%

Need for ST Mkt currently 10% driven by supply issues, price arbitrage opportunity, load variance Gradual shift toward ST mkt

Energy xchange platforms IEX 95 % share PXIL of NSE 5% 97% contracts of daily traded vols in Day ahead mkt (DAM) & Term ahead Mkt (TAM) pass thru IEX

Low cost operating structure 90% income from transaction fees INR 0.04/kwh/transaction 10% from admission & membership fees

Risk to IEX model : Lower transaction fee New players Stagnant mkt share Change in Xchnage platform design

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<u>@IndianEnergyXch</u> Mkt share of 95%/40% of spot/short term power mkt Shift of vols to power exchanges & new products to aid growth Better price discovery, transparent pricing,RE ,low transmission congestion to shift momentum to Spot mkt Zero debt,efficient cash conversion,80% GMs