



# The Tata Power Company Limited Annual Analyst Meet, 5<sup>th</sup> June 2018 Mumbai





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## Agenda



#### **Sector Overview**

**Tata Power** 

**Business Overview** 

#### **Key Themes**

- Deleveraging the Balance Sheet
- Optimizing returns on Mundra/ Coal assets
- Trombay PPA issue
- Future Growth Strategy
- Renewables Portfolio- way forward

## Agenda



#### **Sector Overview**

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**Business Overview** 

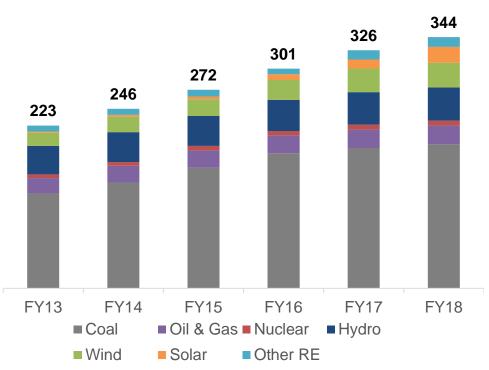
**Key Themes** 

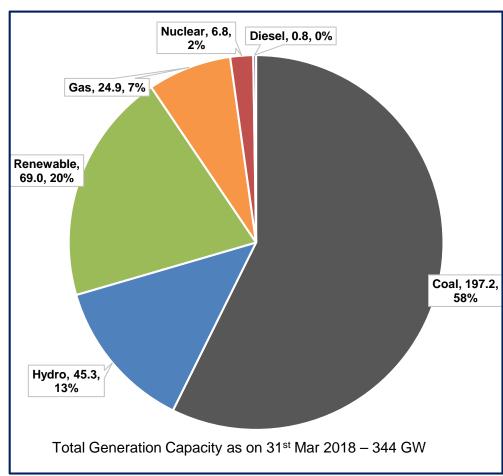
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## **India Generation Capacity– current status**



## **India Installed Capacity (GW)**



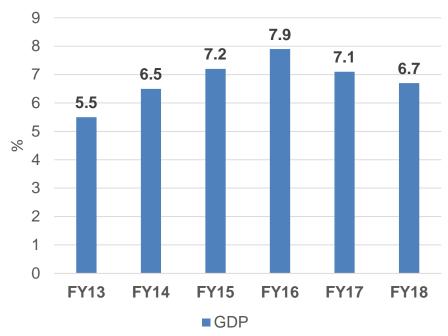


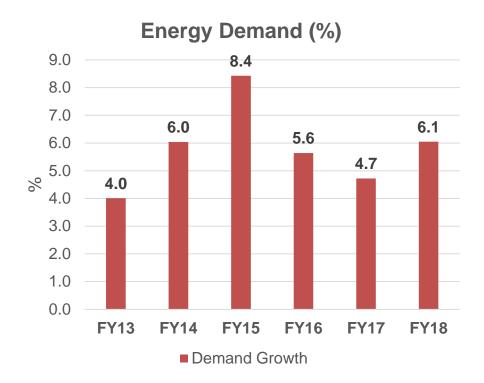
Growth in solar capacity has far exceeded thermal capacity growth (CAGR of 66% vs 9%)

## Corelation between growth in Economy and Energy Demand







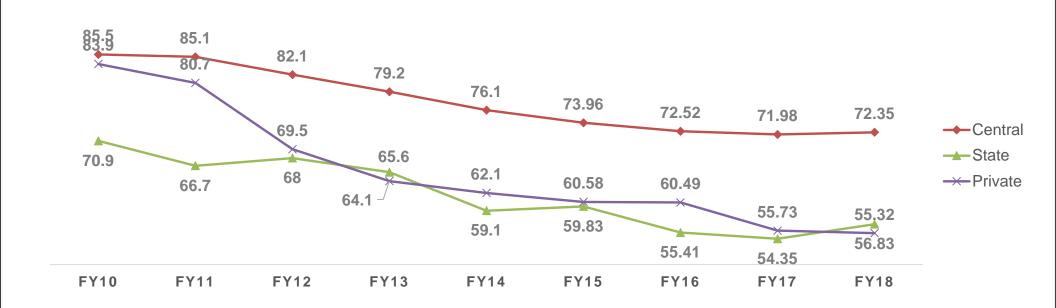


While Energy demand has grown over the years, it has not kept pace with the growth in the Indian Economy

## Thermal PLFs are declining .....and may continue to remain low



#### Declining trend in PLFs of thermal plants

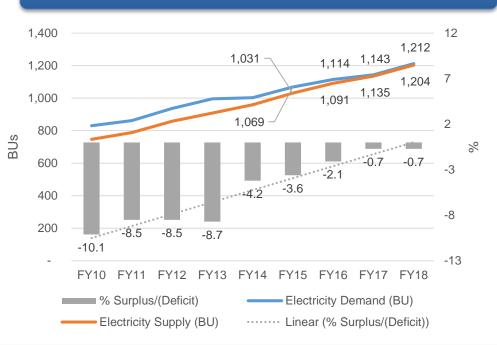


India's power generators continue to face declining capacity utilization mainly due to overcapacity and poor DISCOM health

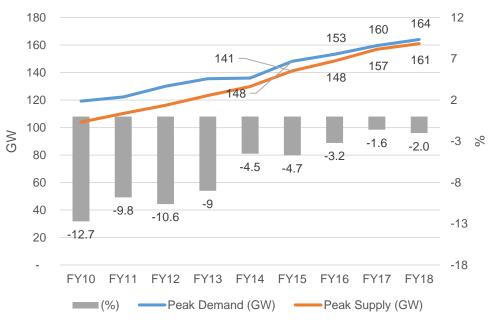
## India's Energy Deficit & Peak Deficit have narrowed in FY18..... but 24\*7 supply still a distant reality







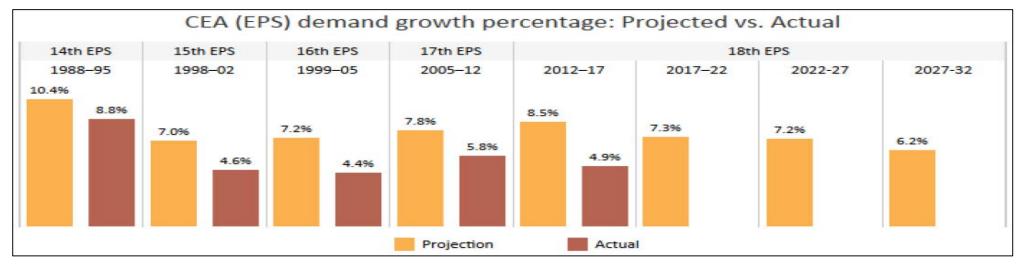
#### Peak Demand and Supply (in GW)

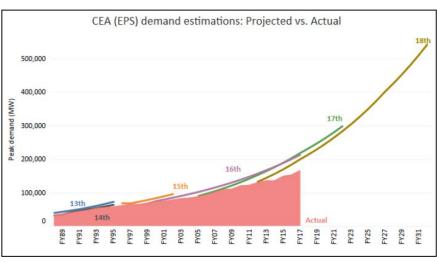


- The bridging of deficit is due to various factors both on demand side and supply side:
  - Record generation capacity added over the last few years
  - Increased availability of coal and transmission facilities
  - Energy efficiency measures coupled with slowdown in industrial demand
- India was 'energy deficit' by the end of FY18 with energy and peak deficit of 0.7% and 2.0% respectively
- Currently, more than half the states show surplus power while others may face shortage in varying degrees. <u>However</u>, on ground, <u>blackouts</u> and <u>brownouts</u> are still <u>prevalent</u>.

## **Demand growth projections**







 There has been a larger contribution of agricultural and services sector in last few years GDP growth than manufacturing

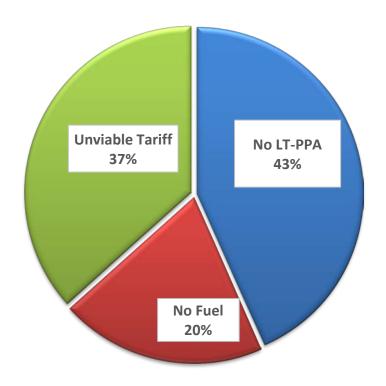
Actual demand growth has trailed projections leading to significant over capacity

#### **Lower Demand Growth**





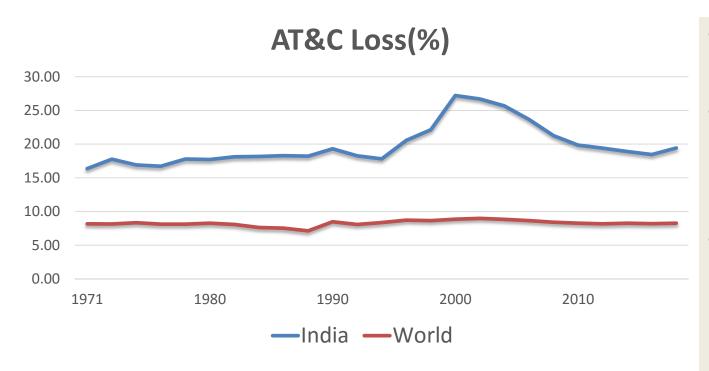
#### **Stranded Thermal Capacity (60GW)**



Installed capacity (344 GW) is more than twice the peak demand (164 GW) resulting in low utilization

### AT&C Losses – India Vs World





- India's average AT&C loss is 21.32%
- As per the UDAY scheme, State governments are required to reduce these losses to 15% by 2018-19
- Only six States (Himachal Pradesh, Andhra Pradesh, Gujarat, Telangana, Uttarakhand and Tamil Nadu) have AT&C losses below the 15 % norm.

States with AT& C losses may be prompted for privatization to curtail their losses

Source: World Bank website

#### Government initiatives undertaken



#### **SHAKTI Scheme**

 Path breaking scheme under which coal is made available to all the power plants in the country having PPA

## Integrated Power Development Scheme

- Upgradation of the electrical assets at Sub–Stations, lines and distribution transformers
- Capacity enhancement and renewal of the old sub-stations and installation of roof-top solar panel in Government buildings
- Government of India will provide budgetary support of approx. Rs. 48,081 crore

#### **UDAY Scheme**

 Reforming the loss making distribution cos both operationally and financially

#### Deen Dayal Upadhyaya Gram Jyoti Yojana

- Separation of agriculture and non agriculture feeders
- Strengthening and augmentation of sub-transmission and distribution infrastructure in rural areas
- The estimated cost of the scheme for above two components is approx Rs. 43,033 crore

#### **Stressed Assets Resolution**

 PFC & PTC platform to aggregate the demands for tying up of PPA for the plants which do not have PPAs

#### **SAUBHAGYA**

- Scheme aims to achieve 24x7 power for all by 2019 by providing electricity connection to each household across the country.
- Scheme will provide subsidy on equipment such as transformers, wires and meters.
- 14% of the household are left to be electrified at the cost of Rs 16,000 Crs

Policy initiatives undertaken, results not yet completely manifesting..however new opportunities are emerging in the sector

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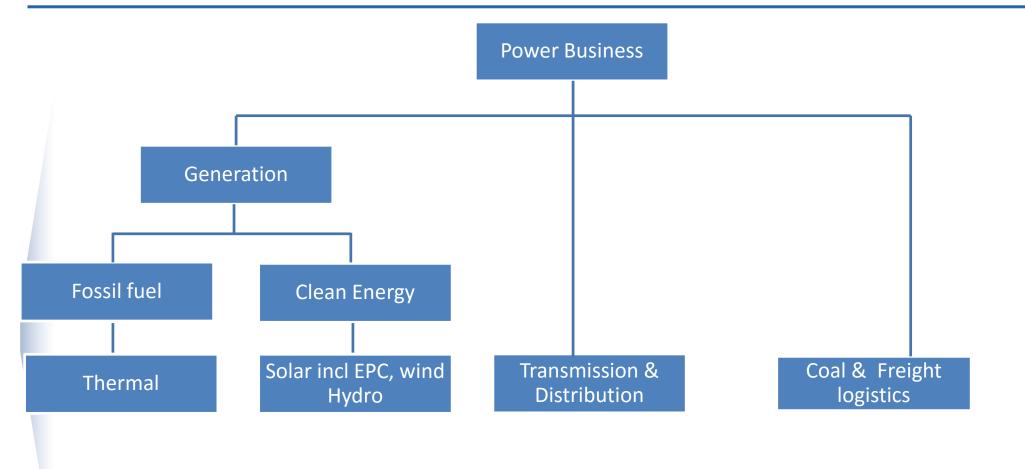
#### **Tata Power - Overview**





## **Integrated Power portfolio**





Diversified yet simplified

## **Tata Power - Snapshot**



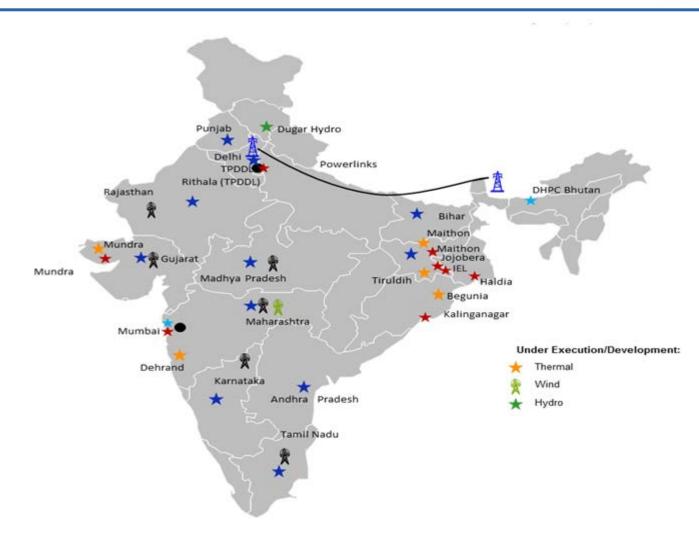
Generation	MW	Transmission & Distribution		Clean Energy	MW	Other Businesses
Domestic	7,661	Mumbai Distribution		Domestic		Coal mines, Indonesia
Tata Power Standalone	1978	No. of Consumers (Lakhs)	6.80	TPREL	675	Shipping
<ul><li>Trombay</li></ul>	1,430*	MU sales	4,719	WREL	1,010	Tata Power Solar (EPC)
<ul><li>Jojobera</li></ul>	428	Delhi Distribution		Tata Power	379	Tata Power Trading
<ul><li>Haldia</li></ul>	120	No. of Consumers (Lakhs)	16.50	Tata Power Solar	47	
		MU sales	8,634	Tata Power Trading	8	
CGPL	4,150	<b>Ajmer Distribution</b>		TPC- Hydro	447	
Maithon	1,050	No. of Consumers (Lakhs)	1.38	International		
Rithala	108	MU sales	303	Cennergi, Wind	230	
IEL	375	Transmission		Hydro, Bhutan	126	
		Transmission: Mumbai	1,188 CKM	Hydro, Zambia	120	
		Transmission:Powerlink s	2,328 CKM	<u>CKP (</u> <u>Indonesia)</u>	<u>54</u>	
				Renewable Capacity	2403	
				Hydro capacity	693	
Total	7,661 MW			Total	3,096 MW	

## Pan India footprint





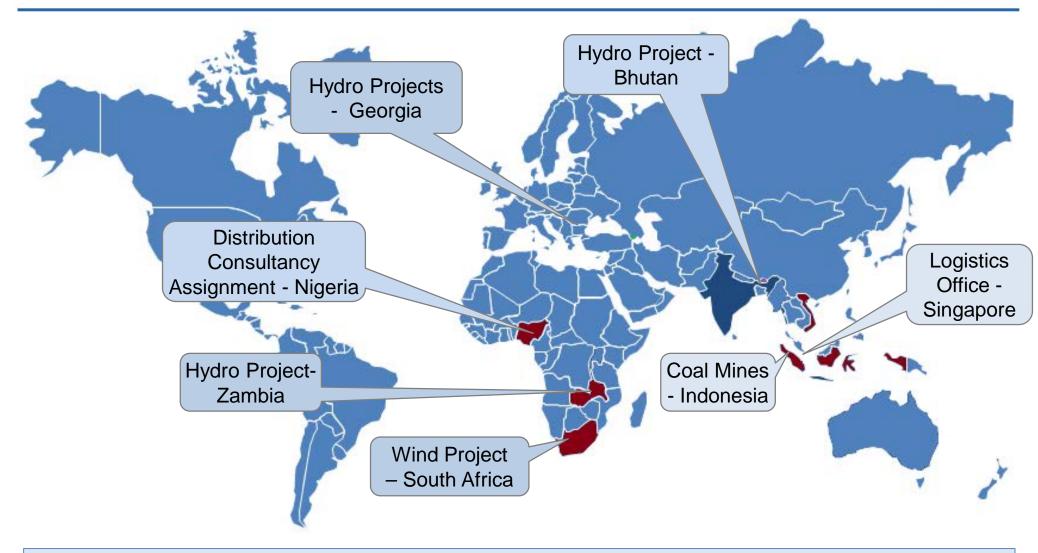
Domestic	MW
Total	10227
Thermal	7286
Hydro	447
WHR	375
Wind	932
Solar	1188



## 10,227 MW of generation across States in India

## International Presence

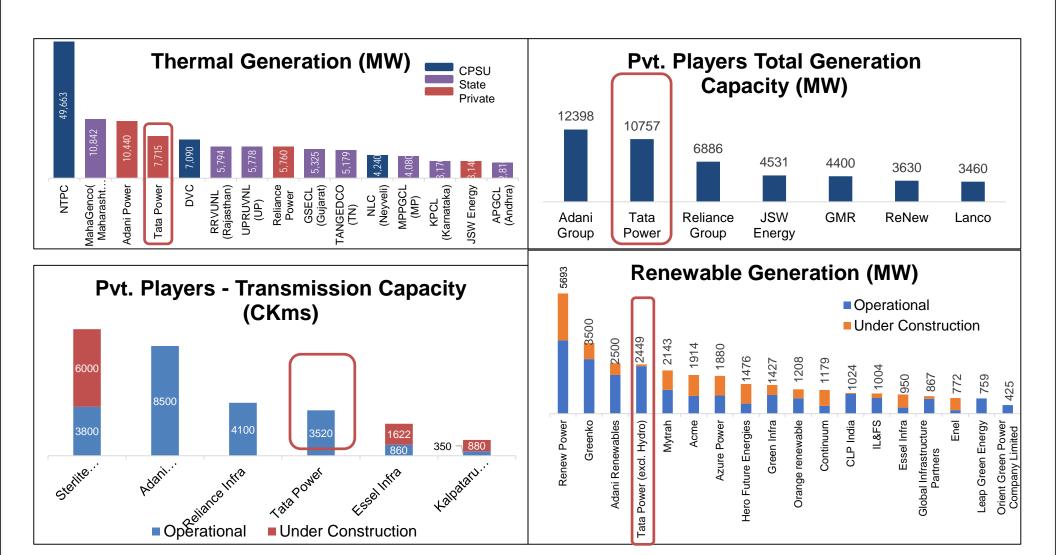




530 MW\* of operating capacity internationally

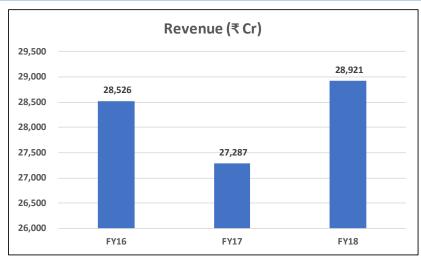
## **Tata Power – Market position across segments**

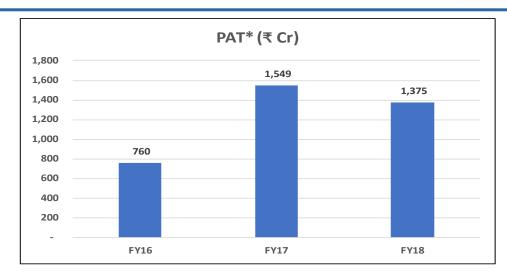


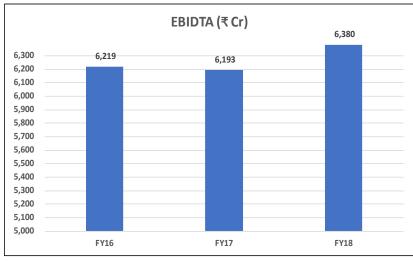


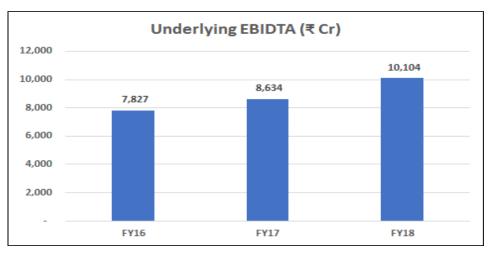
## Key financials Tata Power (Consolidated)—last three years









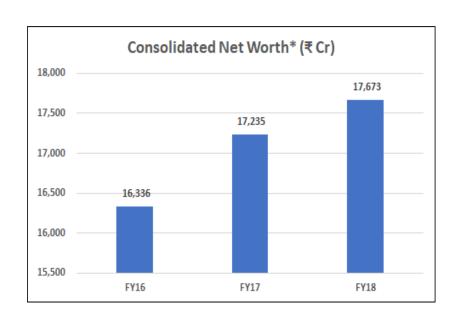


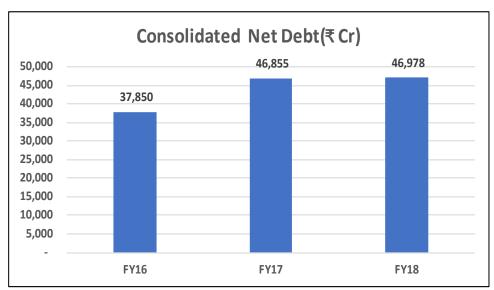
- Adjusted for exceptional items
- \*\* Underlying EBIDTA consider all companies

**Underlying EBIDTA crossed Rs 10,000 Cr** 

## **Key financials – last three years**







## Continued focus on the balance sheet deleveraging

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### Monetization of non-core investments



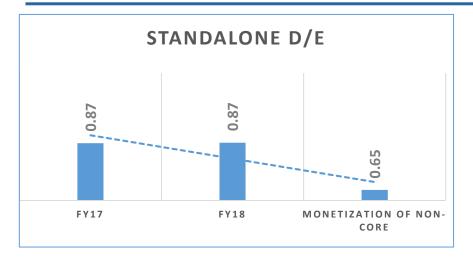
- ✓ Holding in Indian Energy Exchange Rs 199 Cr.
- ✓ Holding in Tata Communications( direct & indirect) Rs 2150 Cr
- ✓ Strategic Engineering Division Rs 2230 Cr.
- ✓ Other Quoted Investments ~Rs 150 Cr.
- ✓ Tata Projects, Nelito, Tata Ceramics, NELCO- Classified as "Assets Held for Sale"

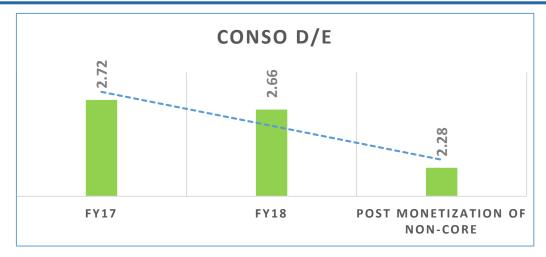
~ Rs. 5,000 Cr worth of divestments finalised

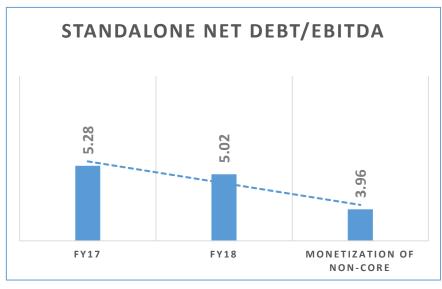
~ Rs. 2,500 Cr of consideration realised

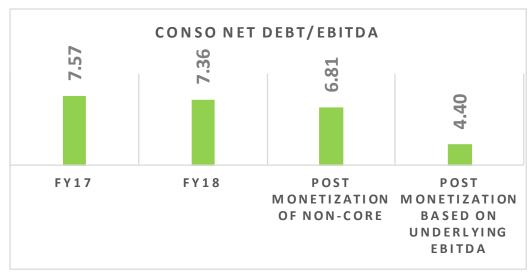
## Leverage Management- Debt Profile











Low dividend yielding assets monetization to boost RoE, EPS. Leverage too improved through monetization of non core assets

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## Natural hedge between Mundra Generation & Coal Assets



Fig in ₹ Cr

#### **Generation at Mundra**

CGPL	FY18	FY17	Variance	%
Revenue	6,419	6,109	309	5%
EBITDA	16	552	(537)	-97%
PAT	(1,408)	(855)	(554)	65%

#### **Coal mining & Coal Infra Companies**

Coal & Infrastructure Business	FY18	FY17	Variance	%
Revenue	8,641	7,123	1,518	21%
EBITDA	2,889	1,792	1,097	61%
PAT	1,423	797	627	79%

Incremental EBITDA loss of Rs. 537 Cr

**Incremental PAT Gain of Rs. 627 Cr** 

## **Initiatives at CGPL to Optimize the Cost**



#### Optimizing Coal Blending to reduce Under-recovery

CGPL is firing different Off Spec Coal to reduce the fuel cost.

#### Coal Blend in FY 18

MCV - 77%

LCV - 13%

HCV - 10%

## Coal Blend ( proposed target)

MCV - 43%

LCV - 37%

HCV - 20%

Reduction in Coal Cost

CGPL has significantly changed the coal blend mix to reduce the coal cost.

#### Sale of additional Power beyond 80%

CGPL is in discussion with Procurers to sell its power beyond 80% at a higher tariff than that in PPA to reduce losses.

## **CGPL** – Cost optimization initiatives – the key



Competitive Coal Procurement	Around 2-3 MMT of coal being procured at the discounts ranging from 5% to 8% on sustainable basis
Lower cost of financing	Achieved 200 bps reduction in the Interest cost and repayment tenure was elongated for Rupee loans. Refinancing being pursued for the ECB loans as well
O&M Practices	Sustainable savings through better Outage planning, reduced Insurance cost, aux consumption optimization etc
Coal Blending	Blending ranging from 10% to 40% depending upon the procurement cost of the low GCV coal, to reduce the per unit of coal consumption

- > Cost optimization measures to reduce losses
- Mundra and coal assets continue to demonstrate natural hedge
- Incremental capacity utilization, if permitted, can further add to the project profitability
- > Development of Russian Coal mine being pursued
- > Every possible solution for Mundra being explored

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## **Unit wise snapshot for Trombay Units**



Parameters	U#5	U#6	U#7	U#8
Capacity	500 MW	500 MW	180 MW (120 MW GT & 80 MW ST)	250 MW
Fuel	Imported Coal	Oil & Gas	CCGT	Imported Coal
CoD	25.01.1984	23.03.1990	29.07.1993	29.03.2009
Current Operating Age	33 Years	27 Years	24 Years	8 Years
Remaining Life	3-5 years	Written off – March 18	4 Years	18 Years

## TP-Generation Power Tie up with TP-D and BEST



Tata Power – Generation

PPAs till 31st March 2019

**DISCOMs** 

U5 (500 MW) U6 (500 MW) U7 (180 MW) Hydro (447 MW)



Tata Power - D



**BEST** 

U8 (250 MW)



Tata Power – D



**BEST** 

Both BEST & TP-D almost equally

- Share the TP-G capacity incl.
   Green Hydro Power
- 2. Get power at blended rates.
- 3. Enjoy competitive peaking power from Hydro plants
- Tata Power's Load Centre assists in load management
- Enjoy reliable system & power stability esp.
   critical for South Mumbai

## **Recent Development**



- Capacity which is due for renewal with BEST is 750 MW
- BEST has called for the following Tenders for 750 MW
   e-Tender 1 = RTC = 300 MW
   e-Tender 2 = Peak 1 (0700 to 2400 hrs) = 200 MW for 17 hours
   e-Tender 3 = Peak 2 (0900 to 1900 hrs) = 250 MW for 10 hours
- Company has submitted bid for all the three tenders

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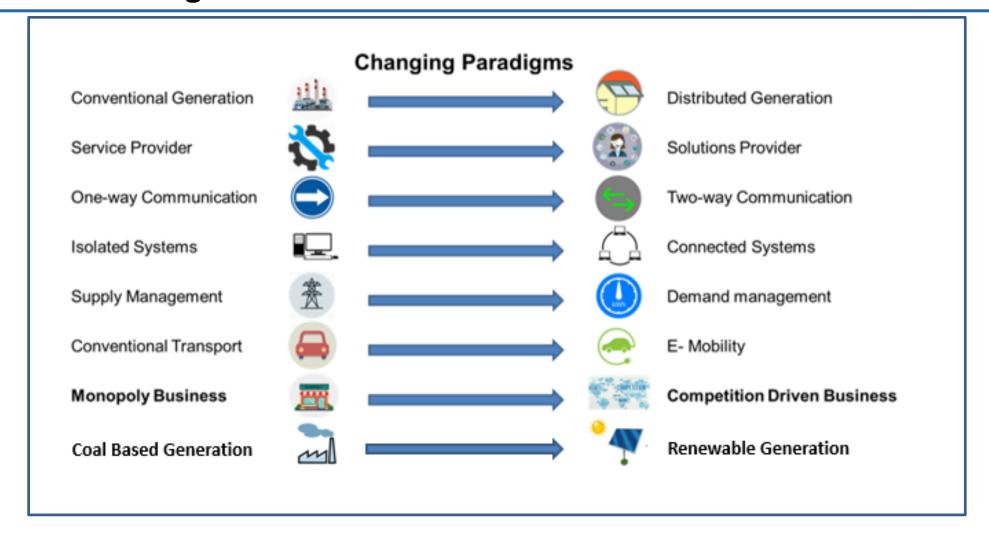
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## Future trends – Shift to Integrated Solutions

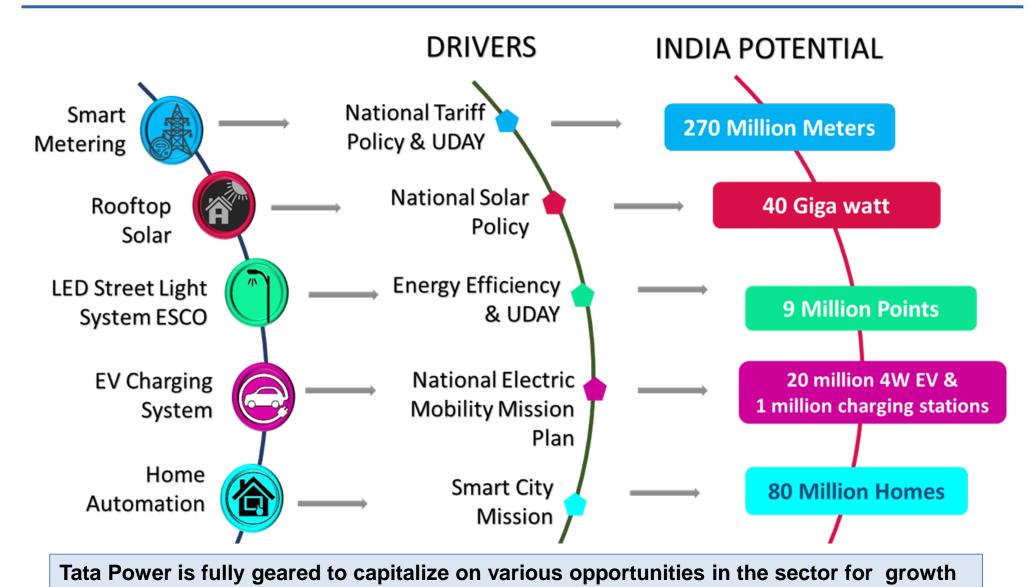




Transformation phase in sector to offer new opportunities

## **Opportunities ahead**

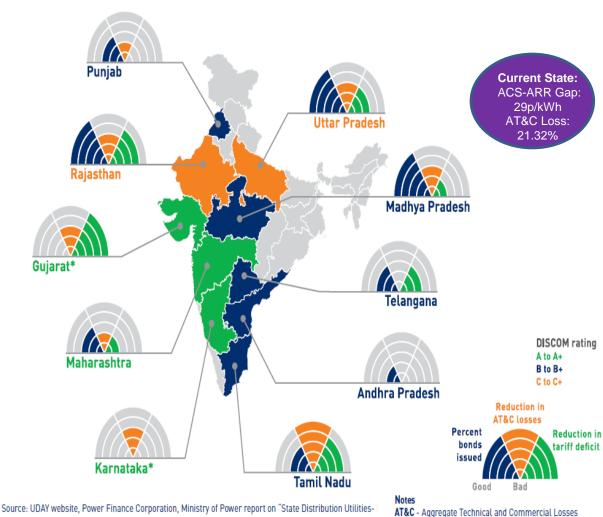




## **Distribution – Outlook**

(1/2)





Although the debt has reduced in all cases, but most states have been unable to reduce AT&C losses as well as ACS-ARR gap as per the yearly targets

The full impact of transfer of loans and losses on State Govt, finances will be seen in FY20.

This will restrict the ability of State Govts. to raise funds for other development objectives and will put huge pressure on them to privatize distribution circles / adopt franchisee model.

Fifth Annual Integrated Rating" BRIDGE TO INDIA, 2017

\* There is no debt restructuring component for these states

Post UDAY, high AT&C losses states, would require greater private sector participation

## Distribution – Outlook

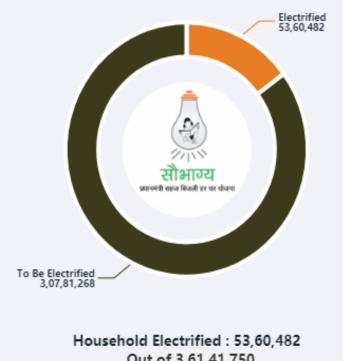
(2/2)



#### MICRO GRID

#### The Need

- Only a small fraction of rural households (10%) electrified
- Over 3.5 crore households in India are yet to be electrified
- Nearly 80% of rural households in the electrified villages in some states of India receive power supply <2 hrs.
- Nearly 62 crore people in Africa (2/3<sup>rd</sup> of the population) are without electricity supply
- A localized cost effective microgrid will be able to ensure universal access to electricity



Out of 3.61.41.750

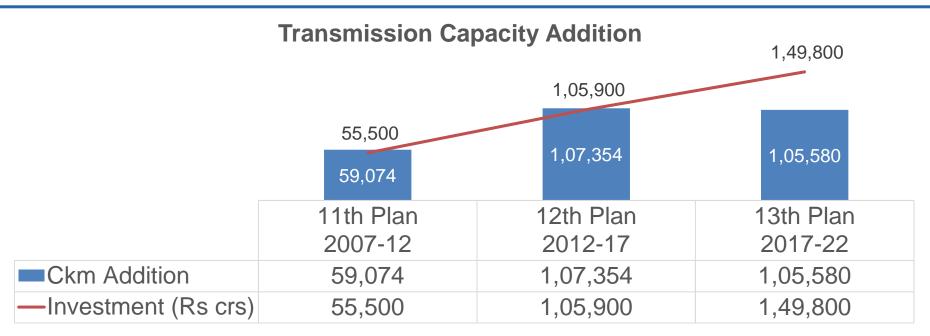
#### The Solution

- Packaged solution "Utility In a Box" with solar, storage and biomass
- Development of low cost and high efficiency appliances & meters
- Intelligent smart meters and inverters
- Promoting anchor economic activities in villages
- Microgrid pilot projects by Tata Power underway in Bihar and UP
- The aforementioned solutions can be applied to the unelectrified parts of sub-Saharan Africa too

#### Microgrid can have an immense growth potential

## **Transmission Scenario - India**





- ~ 80,000 ckms of transmission lines to be added between FY19 and FY22
- Green energy corridor projects envisaged with a total investment of ~ Rs 10,000 Crore

### Opportunities in Inter and Intra state network development

# **Key Focus Areas for growth**





**EV** Charging and Storage

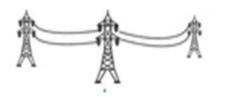


**Smart meters** and cities









Transmission & Distribution



**LED Lighting** 



Distributed Generation and Rooftops



Generation: Renewable

# Efforts to Simplify, Synergize, Scale

- to achieve growth









Together

wE
Achieve
More





## Simplify

- Reorganize the business to grow
- Divest and exit from noncore investments as well as subscale assets to free up capital

# Synergize

- Aligning with initiatives in new / emerging business areas at the Group level for maximum business impact
- Synergize within Tata Group and Tata Power Group

### Scale/Stretch

- Achievement of scale in focus businesses
- Value added businesses with high Rol to make significant contribution to profitability
- Improve return on capital employed in existing businesses

**Focused Strategy for future growth** 

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### Renewable Portfolio - Overview



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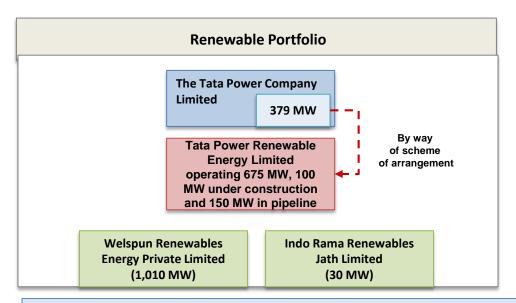
TPREL is the 3rd largest Renewable energy player in India with an operating portfolio of 2,064 MW with 100 MW is under Construction



Balanced portfolio with complimentary renewable energy sources and presence across 11 states, thereby de-risking portfolio with an average tariff of Rs. 5.92 p/kWh



Robust platform to benefit from the huge market potential to increase the capacity



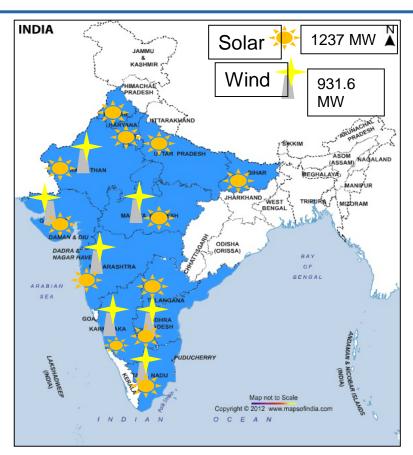
# Financial Performance FY 18

Particulars	Total (in Rs
	Cr)
Installed Capacity (MW)	2064
Generation Sales (MUs)	3188
Revenue incl Other income	2054
EBIDTA	1832
PAT	314
Net Worth	5347
Net Debt	9129

>2 GW of Operating capacities and 150 MW in pipeline, Rs 1832 Cr of EBIDTA

# Renewable Portfolio – State wise exposure







Statewise Capacity (MW)

State	GJ	RJ	MP	МН	AP	TS	KN	РВ	TN	UP	вн	Total
Solar	100.0	66.0	130.0	128.0	205.0	15.0	267.0	36.0	249.0	1.0	40.0	1237.0
Wind	193.6	185.0	44.0	238.6	100.0	0.0	50.4	0.0	120.0	0.0	0.0	931.6
Total	293.6	251.0	174.0	366.6	305.0	15.0	317.4	36.0	369.0	1.0	40.0	2168.6

# Risks associated with renewable portfolio- perception vs rea

reality
TATA

Risk Perception	Reality
Likely reneging of high tariff PPAs	No such precedence, Courts have upheld the legal tenability of PPAs
Retrospective withdrawal of "must run" status	Government has suggested that such policy changes cannot be applied retrospectively
Backing down of generation in various states	There have been instances in certain states but same have been reduced
Payment delays	Overall receivable situation has improved significantly

# Renewables sector outlook- more opportunities for growth





Solar 750 GW



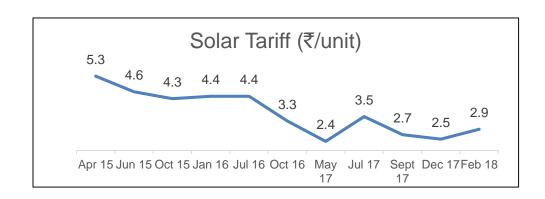
Wind 102 GW



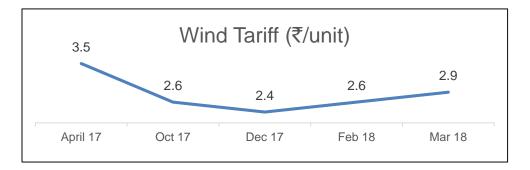
Small Hydro 20 GW



Bio-Energy 25 GW



- India has a target of 175GW by 2022
- To achieve this ~105GW is to be added in next 4 years
- Highest growth potential in solar rooftop generation
- Competition is high in renewable bids adding stress on margins



India green energy resource potential - 900GW offers huge growth opportunities

(1/3)



Tata Power Solar is India's No.1 Rooftop EPC Company for the last 4 years as per BTI and is well poised to grow with the fast growing rooftop market in India



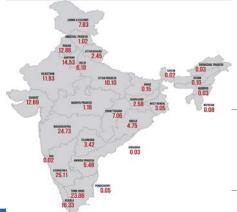
Executed World's Largest Rooftop System<sup>#</sup>
12 MW for RSSB-EES, Punjab







Commissioned India's Largest Vertical Solar Farm for Dell, Bangalore



**Delivered India's First Solar Vehicle Charging Station** for Gujarat Sachivalaya

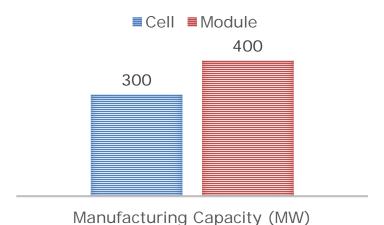


Commissioned ~246 MW till date serving Residential, Government, Commercial, Institutional, & Industrial segments across India, holding the largest market share

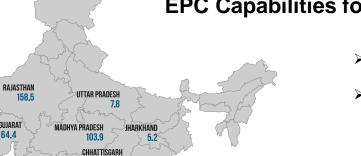
# Tata Power's competitive edge



#### **In-House Manufacturing of Solar Cells and Modules**



- Over 1GW modules shipped globally
- Rated as Tier-1 bankable manufacturer by several rating agencies such as GTM, BNEF
- Highly automated manufacturing lines ensuring best quality product



**Utility Scale** 

**EPC Footprint** 



- With over 1.5GW of EPC Projects Commissioned or in pipeline, TP EPC arm is one of the biggest in India
- Strong Capabilities in key areas
  - Engineering and design optimizations
  - Low cost procurement might
  - Cost light project execution
  - Intelligent O&M systems for predictive maintenance

KARNATAKA

# Tata Power's competitive edge

(3/3)



### ✓ EPC cost / Module Pricing

- Engineering optimisations in own manufacturing / EPC,
- long term tie up for module procurement,
- better quality monitoring in procurement being a manufacturer

## ✓ Low financing cost and ability to raise long term funds

 demonstrated access to low cost funding from both domestic and off shore sources,

#### √ O&M cost

Shared cost, shared spares, intelligent module cleaning

### ✓ Energy Efficiency/ AC DC Packing

Technological intervention to improve efficiency

Tata Power to leverage on low cost funding and optimizing on other parameters to be competitive

# Clean Energy Portfolio- key takeaways



Non-Fossil based capacities to be 40%- 50% of the total portfolio

150 MW of projects in pipeline, bids being pursued

Adequate potential capacity still available to be tapped

Growth plans to be pursued with a cautious approach

# Key take away



An Integrated player across the value chain, well positioned to withstand sectoral challenges and capitalize on opportunities

Deleveraging have been key focus to strengthen the balance sheet, to achieve a D:E ratio and Net Debt to EBITDA which are reasonable

Integrated Power (Mundra) and Coal Business continues as a natural hedge, initiatives of cost reduction to continue to contain losses at Mundra

Focus on Renewables without compromising on Returns, opportunities in Transmission & Distribution

To focus on growth coupled with balance sheet strengthening, shift from asset heavy to asset light model



# TATA POWER

# Lighting up Lives!

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