

Power Market Development and PTC's Role



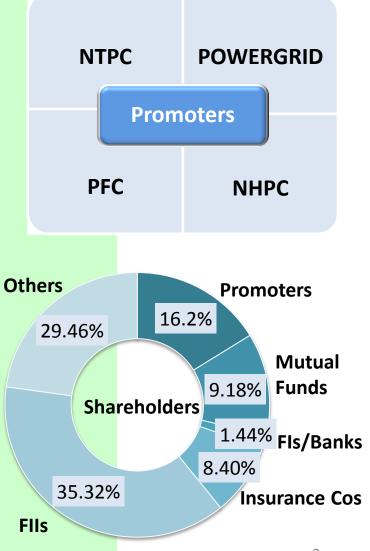
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Formation of PTC: Initiation of Power Market

 Established in 1999 by Government of India through a Cabinet Decision as a Public-Private Initiative

Objectives:

- Promoting power trading to optimally utilize existing resources
- Attract investments in the power sector on the strength of multi-buyer model
- Mitigating payment risks of mega projects
- Creating a Power Market in India and neighboring countries
- Professionally managed Board of the company
- Stock listed on BSE and NSE since 2004; widely held by institutions





PTC: Board of Directors



Whole Time Directors Nominee Directors Independent Directors 5 8 3 Mr. Jayant Gokhale Mr. M. K. Narayan, JS Mr. Deepak Amitabh Director (Nominee of MoP) **Chairman and Managing Director** Mr. Rakesh Kacker Mr. R. K. Chauhan Dr. Rajib K. Mishra **Director (Nominee of POWERGRID)** Ms. Sushma Nath **Director (Marketing and Business Development**) (Nominee of NTPC) Ms. Bharati Prasad Mr. D. S. Saksena Dr. Ajit Kumar **Director (Commercial &** Mr. M.K. Mittal Mr. Ramesh Narain Misra **Operations**) **Director (Nominee of NHPC)** Mr.S.S.Mundra **Ms.** Parminder Chopra

Director (Nominee of PFC)

Ms. Preeti Saran

PTC's Role in Market Development



Formation of PTC pre-dates Electricity Act 2003 (Trading recognized as a licensed activity)

- PTC developed the concept of short term market (upto 1 year)
 - Effective mechanism to unwind
 rigid contractual positions of
 Utilities
- Initiated the market for long term power tie-ups and facilitated new generation capacity
- Initiated the evolution of power market for medium term

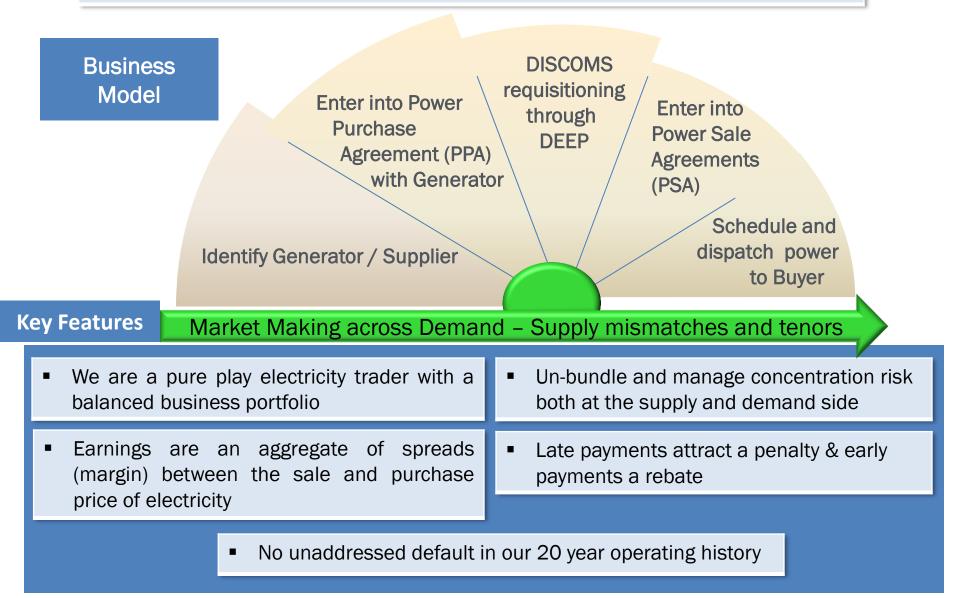
Contractual Structure

- "Purchase of electricity for Resale" – Two contracts with Principal-to-Principal relation for Purchase & On-sale
- Positions on both sides with inherent respective risks
- Creating transactions by matching these positions
- Residual risks are internalized; risk increases with 'Open' positions on any credit, market and operational aspects

PTC: What We Do?

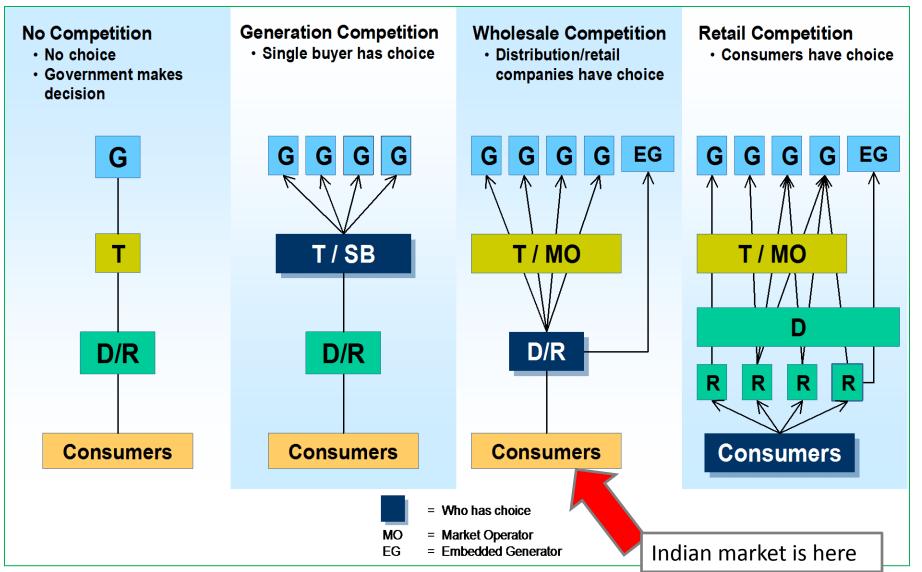


The Core Business of PTC is Electricity Trading



Finding the right Power Market Design





PTC's value creation over the years: "**First**" in Trading Market



Electricity Trading concept introduced by PTC and was first to start trade in 2001 Amongst **first** to get trading license after EA -2003

Introduction of Short Term Market

Tolling agreement with generator

Co-Promoter of India's first electricity exchange (IEX)

Long Term PPAs to IPPs (leading to more than ~45% of generation capacity owned by Private Sector)

Long term PPAs to Renewable Sector (Wind)

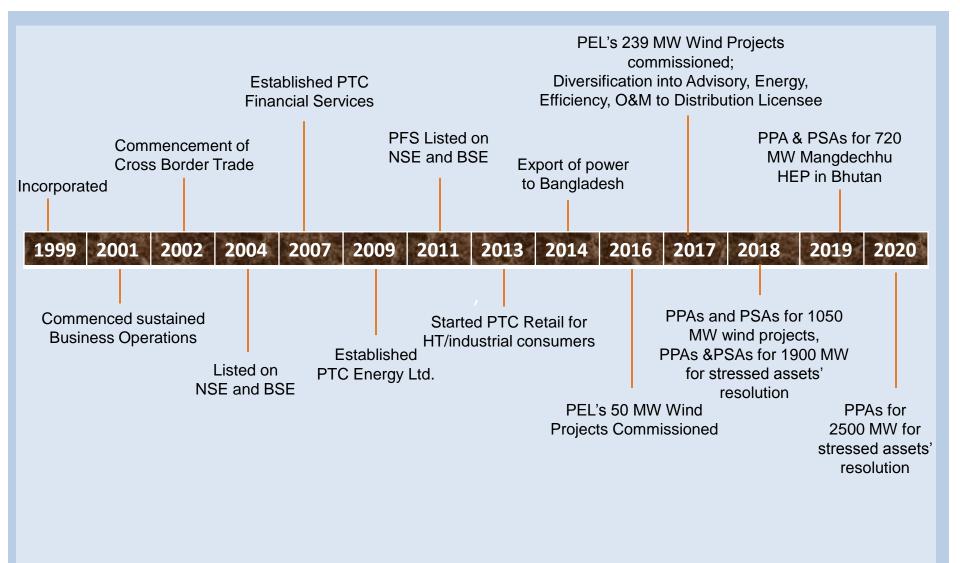
Signed PPAs and PSAs for 1900 MW for Stressed Assets Resolution

Cross Border Trade (Nepal, Bhutan & Bangladesh)

Bellwether in Power Market Development

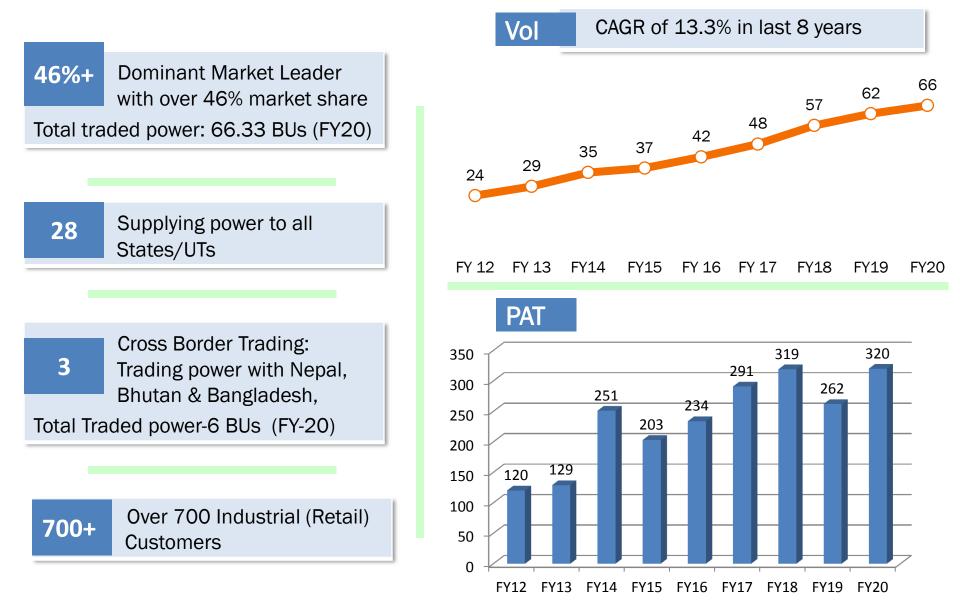
PTC: Milestones





PTC: Key Metrics

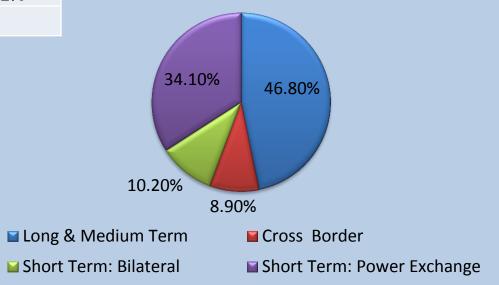




Major segments of power trading by volume

Segments	Traded Volume in FY20, MUs	% of total traded volume
Long Term and Medium Term	31,028	46.8%
Cross Border	, 5,938	8.9%
Short Term: Bilateral	6,735	10.2%
Short Term: Power Exchange	22,618	34.1%
Total	66,332	





PTC India

Cross Border Trading



Bhutan:

- Long-term PPAs with Chukha (336 MW), Kurichhu (60 MW), Tala (1020 MW), Nikachhu (118 MW) and Mangdechhu (720 MW) HEPs
- Annual Revenue for Bhutan ~ INR 2200 Crore (~USD 300 Mn at INR/USD conversion ratio of 75

Nepal:

- India-Nepal power trade is at a moderate level of 40 MW through PTC in FY-20
- PSA with NEA for export of 150 MW on long term basis

Bangladesh:

Supplying 200 MW power to Bangladesh on Medium and Long Term basis

PTC uniquely placed to contribute more to cross-border power trade

New Business Models & Way Ahead



Targeting to cater entire 'Energy Supply Chain'

Providing Bouquet of Services including Feasibility Studies, Survey & Cost Estimation, Engineering, Bid Process Management to Refineries



PTC India Financial Services Ltd (PFSL)

PTC India

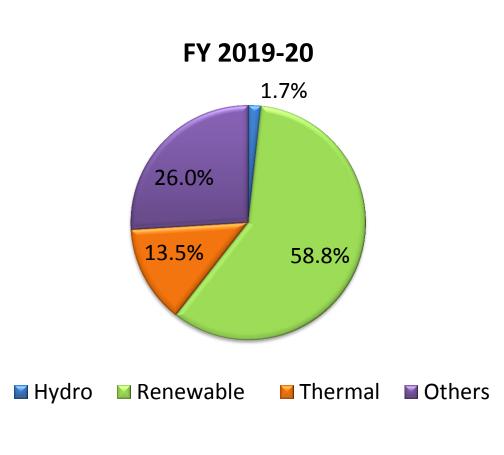
Systemically Important Non Deposit Taking NBFC

Classified as Infrastructure Finance Company (IFC) by RBI in 2010

Current fund based debt portfolio of Rs. 11,005 cr as of 31st March 2020.

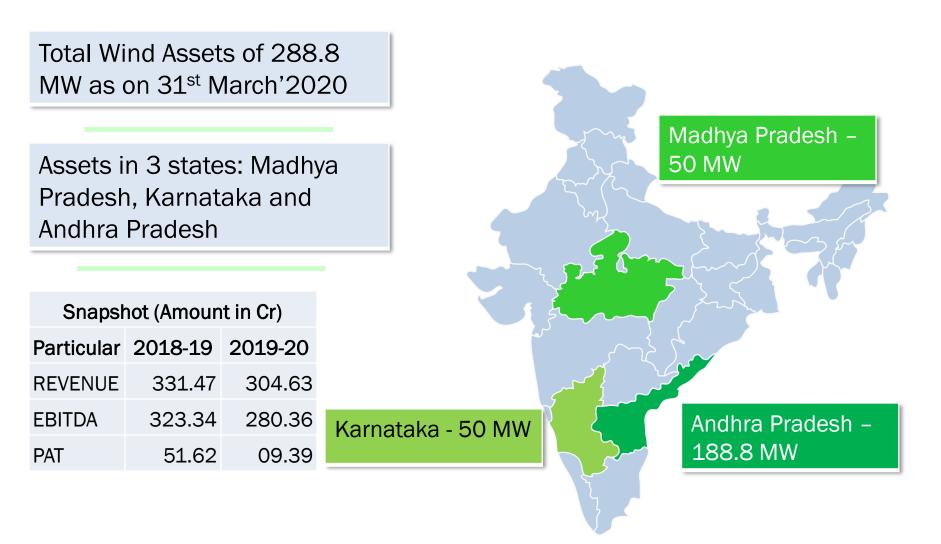
Diversified portfolio in the Energy/Infra Business

Spread and NIM is maintained around 2.61% and 3.31% respectively



PTC Energy Ltd (PEL)





PTC: A Responsible Corporate Citizen



- As a Responsible Corporate, PTC has always contributed towards the welfare of the Society
- Creation of PTC Foundation Trust to carry out CSR initiatives for PTC Group

Major thrust areas:

- Sanitation / cleanliness
- Skill development & Women's Empowerment
- Environmental sustainability



CSR Initiatives:

- Ongoing "Sanitation Work "at Bhikaji Cama Place
- Partner in women's "Journey in Transformation" to empower individual, family and society through education, health and enablement.
- "Skill Development" project -Initiative gives employment of more than 100 across all scheme work.
- COVID Response Reaching to 5 states with PPEs and Other Safety accessories

Thank You!

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