

# Opportunities in Power Transmission Capability & Infrastructure Expansion in India

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## Abstracts

Gauging Support Matrix for Power Trading & Open Access Transactions with Regional Surplus/ Shortage Tracks

Since the current power transaction dynamics in the country is shaping up in favour of more open access transactions meaning a continued need for enabling power transmission infrastructure to felicitate what could be termed as “ True Open Access ” . In this milieu the role of not only the CTU and STU shall be important but also the participation on PPP basis by IPTCs shall be equally pivotal. Thus, there was an ardent need of a comprehensive analysis covering all the facets which offer opportunities in relation to the identified growth engine of current power sector in the country i.e. transmission segment.

### Key Queries Resolved

What would be the market size & business potential for players in Indian power transmission segment ?

What measures to be undertaken for upgradation of existing and upcoming transmission lines ?

What are the targeted plans for power trading by 2022 for STOA/MTOA/LTOA ?

What are the key challenges to be addressed for felicitating open access and power trading ?

What are the lost capacities in terms of “MW” and revenue due to transmission

bottleneck ?

What would be the transmission capacity growth rate track for thermal power plants & estimating the deficiency track ?

What would be the transmission capacity growth rate track for solar power plants & estimating the deficiency track ?

What would be the transmission capacity growth rate track for wind power plants & estimating the deficiency track ?

What would be the growth in inter regional transmission capacity till 2022 ?

What would be the growth track of substations and HVDC terminals till 2022 ?

#### Key Highlights:

Growth rate required for transmission capacity as per Generation capacity-cumulative and on Pan India basis & Deficiency Track

PGCIL growth numbers and projected network capacity addition: Assessing the deficiency track

STU's growth numbers and projected network capacity addition: Assessing the deficiency track

Assessing impact trading business case and transmission infra congestion in India

Application of high performance network in existing lines : Track of assets

Identifying cost structure for players – Estimating state wise track

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Growth of Power Transmission System in India: An Overview  
Need for additional Transmission Infra: Managing Congestion  
Enormity of Grey Area: Deficiency in current Transmission Capacity  
Delay Track in Future Capacity Additions  
Planned Investments in Capacity Additions and Adverse Spiral Effect: Ensuring True Open Access in India  
Planning of Transmission Capacities as per Open Access Transactions  
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Assessing Impact Trading Business case and transmission infra congestion in India  
Targeted Planning estimates for STOA/MTOA/LTOA and Power Trading by 2022  
Focussing upon Existing and Upcoming Transmission line Upgradation  
Technological Application and Innovations in Transmission Line Planning and Execution  
Addressing Key Challenges for felicitating Open Access and Trading

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