

# Towering opportunities for steel sector

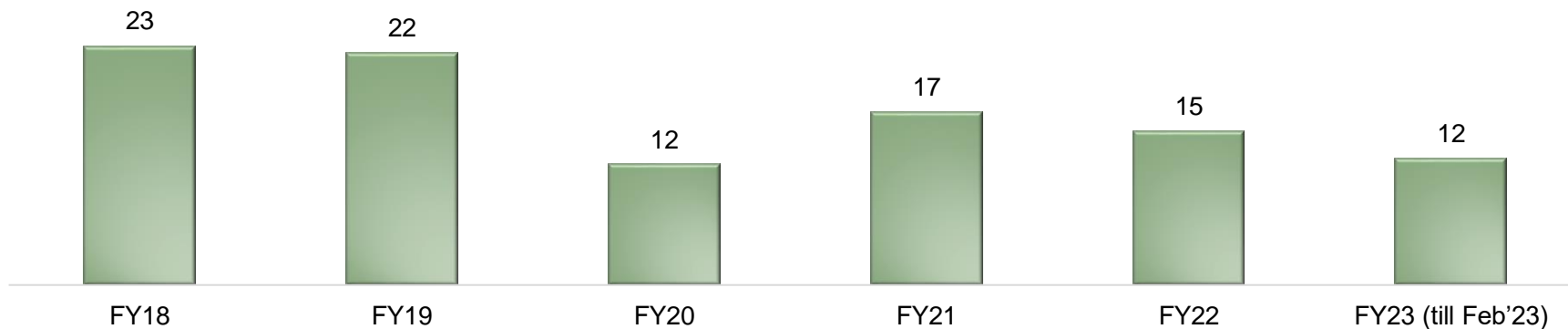
*Future demand drivers*

April 2023

# Power Transmission Towers

Multiple growth drivers in place

**Addition in Transmission Line in India, in '000 ckm**



Growth Factors

## India's growing power requirement

- Increasing demand for electricity in India due to:
  - population growth
  - increased per capita power consumption
  - industrialization
  - extreme weather patterns

## National grid capacity enhancement

- The cumulative inter-regional power transfer capacity of the national grid has been enhanced to 112 GW
- This is further likely to be enhanced to 130 GW by 2027-28

## RE Integration to national grid

- India targets to achieve a non-fossil energy capacity of 500 GW by 2030
- Matching transmission infrastructure needs to be developed in a planned manner to ensure smooth integration with the grid and reliable power supply to load centers

## Country-level collaboration in power sector

- Electricity trade is taking place between India and Nepal, Bhutan and Bangladesh through existing transmission interconnections, with many more planned
- Discussions ongoing for specific transmission lines with Sri Lanka and Myanmar

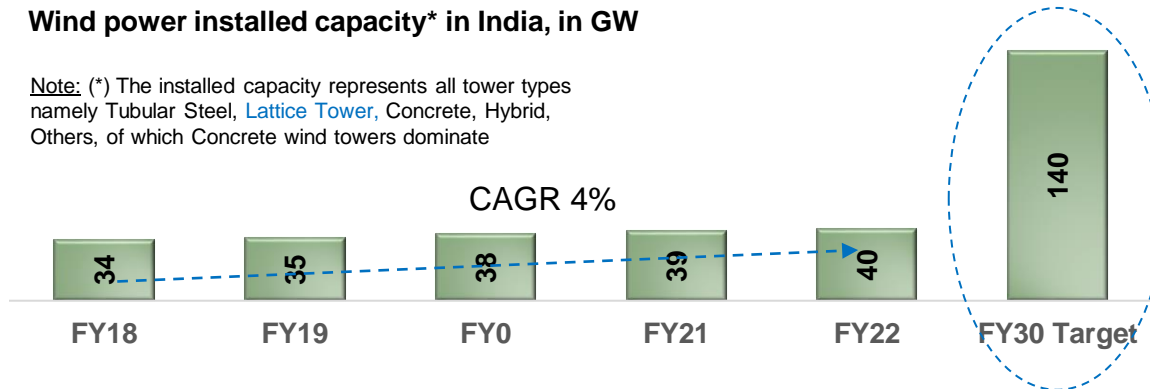
Source: Ministry of power, GOI, powerline.net.in



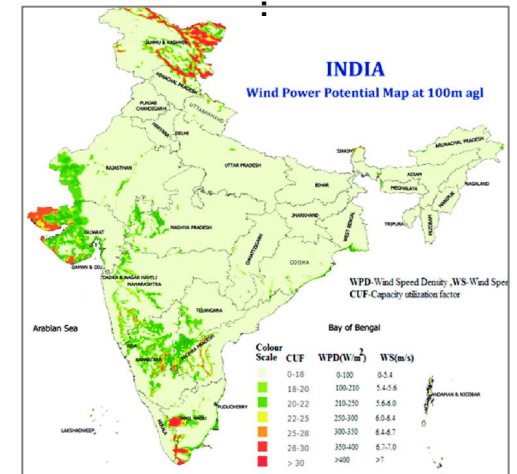
# Wind Towers

## Wind power installed capacity\* in India, in GW

Note: (\*) The installed capacity represents all tower types namely Tubular Steel, **Lattice Tower**, Concrete, Hybrid, Others, of which Concrete wind towers dominate



## Widespread availability of potential wind power generation sites



### India's net zero emission by 2070

- To increase its non-fossil fuel energy capacity to 500 GW by 2030
- Increase the share of renewables in the energy mix to 50% by 2030

### Investments in wind power generation

- \$197 Bn worth of projects underway in India in renewable energy sector
- The world's largest renewable energy park of 30 GW capacity solar-wind hybrid project is under installation in Gujarat

### GOI push

- The union government will invite bids for 8 GW of wind power projects annually till 2030 through a new bidding process

### Large foreign players

Large foreign players like Siemens, GE, etc. showing interest in wind power in India

### Offshore potential:

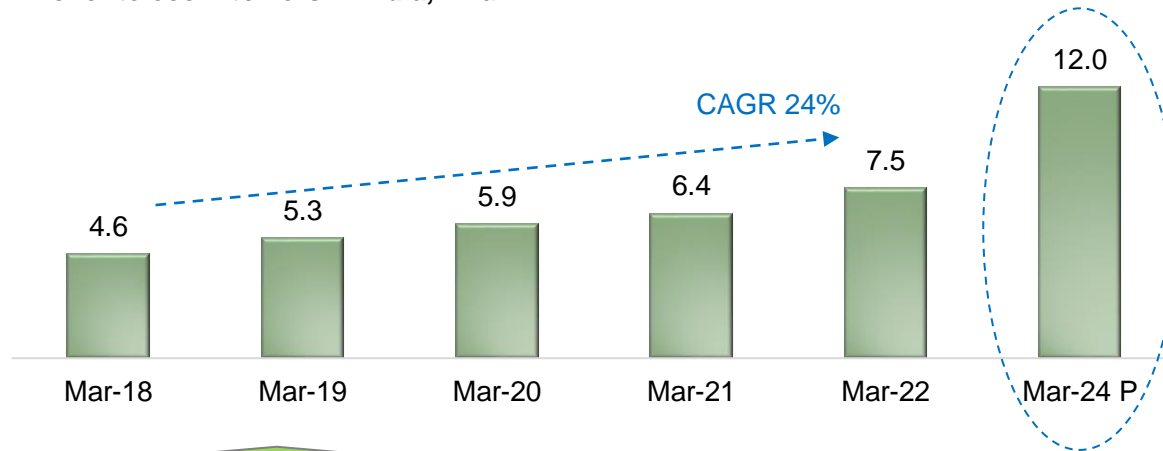
Wind Energy has an offshore target of 30 GW by 2030 with 3 potential sites identified

### Improving economics of wind power

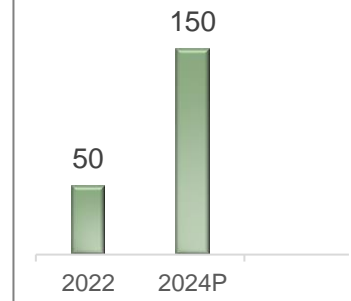
# Telecom Towers

5G will be the single-biggest growth driver even as satcom finds its feet

No. of telecom towers in India, in lakh



5G subscribers in India, in million



## 5G

- In March 2022 nearly 7.5 lakh towers were deployed in India
- By 2024, 12 lakh towers will be required to meet the growing demand of large bandwidth and ultra-low latency for 5G services
- By 2028, India would be the second-largest market for 5G subscribers after China

## Telecom/ Tower sector consolidation

- M&A activities in the tower sector in the recent past including Bharti Infratel-Indus Towers and ATC-Vodafone Idea acquisition
- More recently, ATC has reported plans to sell its stake in India operations
- Draft telecom bill may ease M&As in the sector

## Satellite-communication services

- Several players launching satellites for providing communication services incl. telecom e.g., Oneweb, Starlink
- Various countries at different stages of adoption of satcom
- In India, the price economics remain vital in driving adoption as the tariff of existing (terrestrial) services have stayed low

**The government remains committed to its satcom policy/ reforms and is nudging the telecom companies to deploy 5G towers fast**

Source: DOT, GOI, news articles

# Thank you

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