



# Translating India's NDCs into SDG Outcomes

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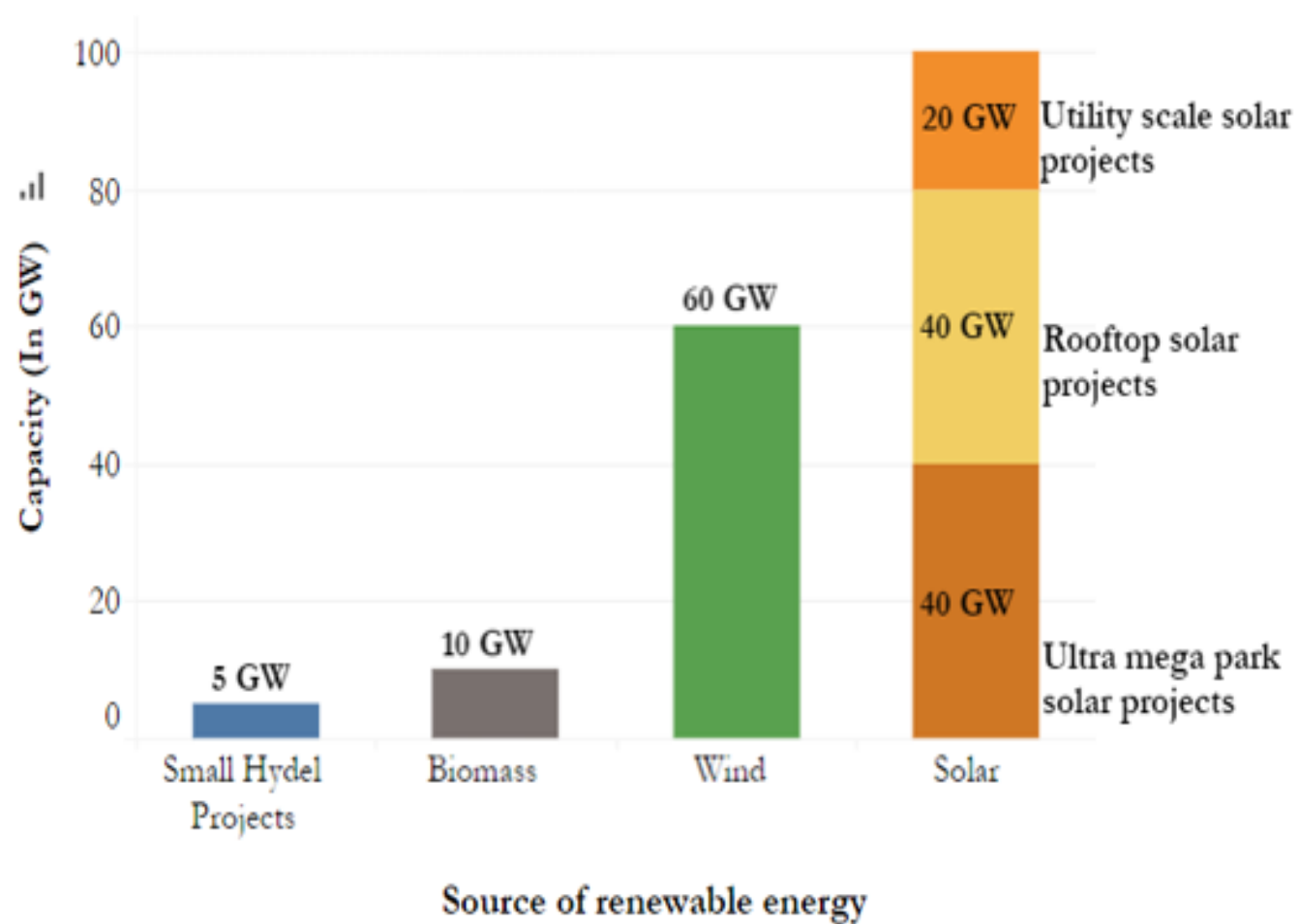
## India's Mitigation NDCs

- ▶ To reduce the emissions intensity of its GDP by 33 to 35 percent by 2030 from 2005 level.
- ▶ To achieve about 40 percent cumulative electric power installed capacity from non-fossil fuel based energy resources by 2030 with the help of transfer of technology and low cost international finance including from Green Climate Fund (GCF).
- ▶ To create an additional carbon sink of 2.5 to 3 billion tonnes of CO<sub>2</sub> equivalent through additional forest and tree cover by 2030

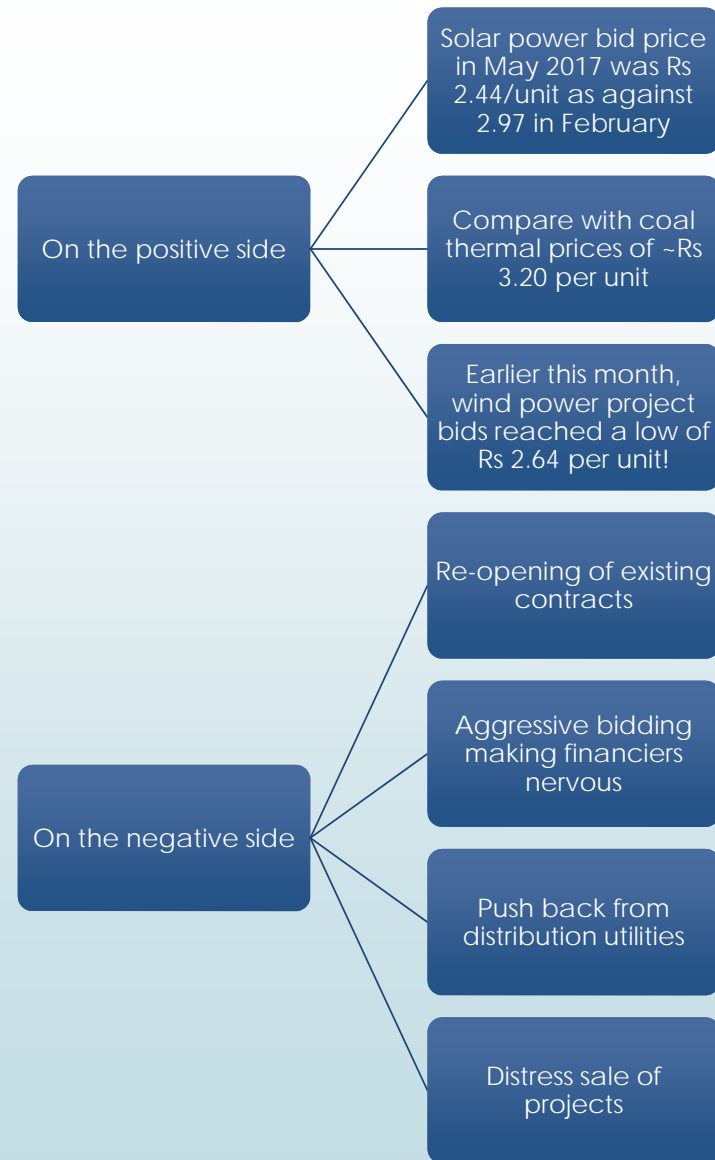
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# India's Energy Related Targets and Impacts

## India's 2022 Renewable Energy Target



# 175 GW of Renewable Energy by 2022



## On Co-benefits?


- Reduced air pollution
- Potential for energy access
- Potential for jobs, livelihood enhancement
- Potential for better education and health outcomes

## From potential to realisation

- Decentralised, distributed RE options
- Supply chains, quality assurance mechanisms, entrepreneurs
- Access to finance, information and capacity building

# Mobility developments

- ▶ Boom in intermediate service providers
- ▶ Vehicles older than 10 years have to be phased out
- ▶ Upgradation of Fuels
- ▶ But also cessation of new fossil based vehicle production by 2030
- ▶ Major investments in mass rapid transport systems



## Ban sale of diesel/petrol vehicles by 2030

India sold over 3 million passenger vehicles in 2016-17 and a total of close to 28 million vehicles

Current electric vehicle manufacturing capacity in the country negligible

Battery manufacturing and costs a major concern

Urban support infrastructure will need huge investments



## Co-benefits?

- Reduced air pollution
- Enhanced, affordable mobility- higher earnings
- Greater security for women?

## Further enablers

- Access to finance
- Upgradation to EVs in one step
- Prioritised charging infrastructure for ISPs
- Policy coherence
- Rural solutions?

# Energy Efficiency

01

Major programmes on lighting – building and street, pump set energy efficiencies, industrial energy efficiency

02

Interesting new models on market aggregation

03

Certification and standards

04

Green Buildings

## Co-benefits?

- ▶ New enterprises encouraged
- ▶ Cost reductions/improved quality and reliability

## Further enablers

- ▶ Re-training and re-tooling of home utility service providers
- ▶ Establishment of rural service networks
- ▶ Incentive mechanisms
- ▶ Focus on SMEs

Thank you

