

**TERI
ENERGY & ENVIRONMENT
DATA
DIARY AND
YEARBOOK**

2016/17

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The Energy and Resources Institute



with complimentary CD

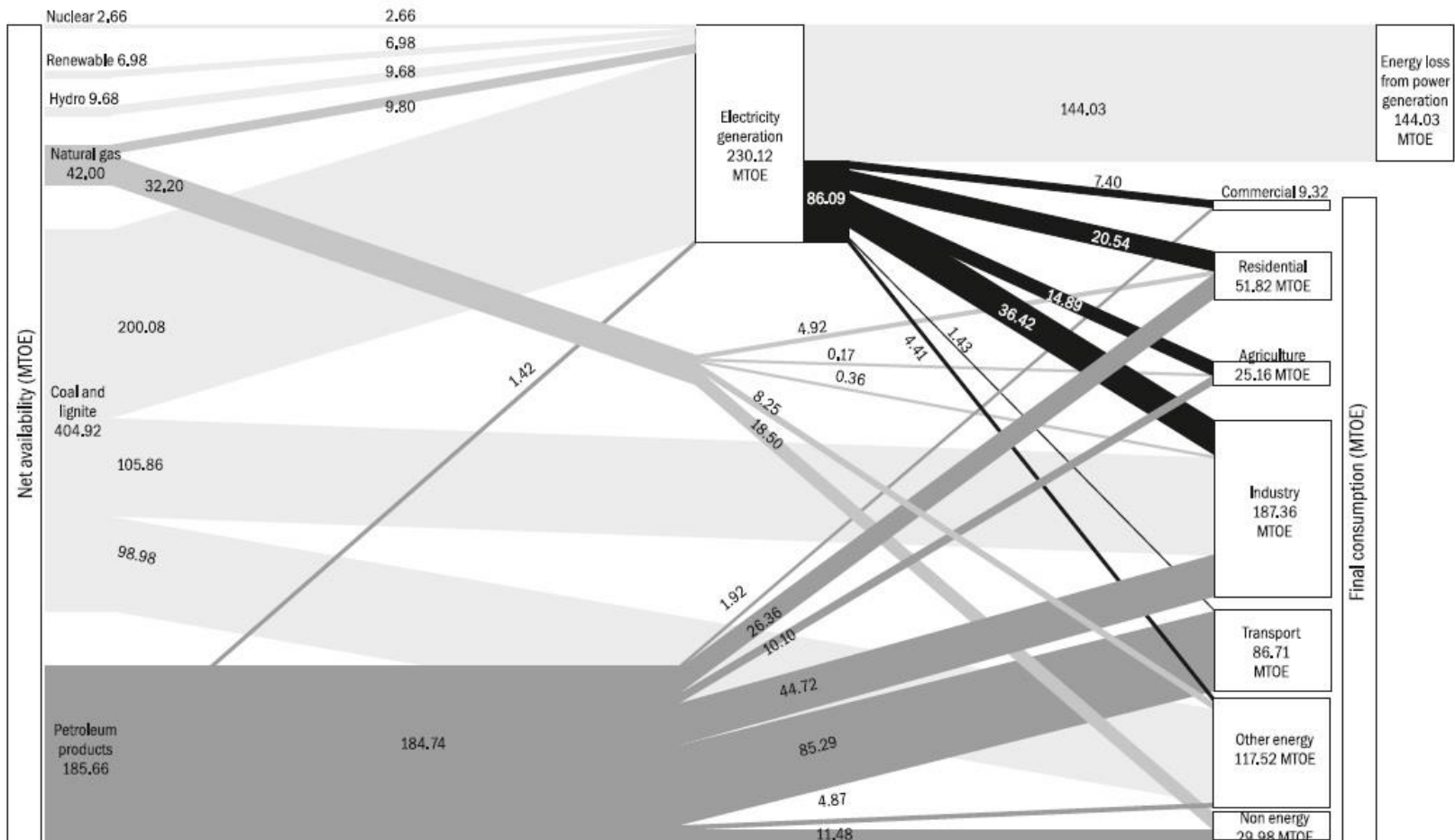
March 2018
**The Energy and Resources
Institute**



Highlights of TEDDY 2016/17

Sankey diagram for commercial energy flows

- For electricity generation almost **92%** of the fuel comes from **hydrocarbon sources (coal, natural gas and petroleum)**.
- In terms of final energy consumption*, **industry (37.00%), transport (17%) and residential & commercial (12%)** are the top three consuming sectors.



Source: Based on the commercial energy flows calculated from various government sources in India for 2015/16 (P) in TEDDY 2016/17

Highlights of 2016-17

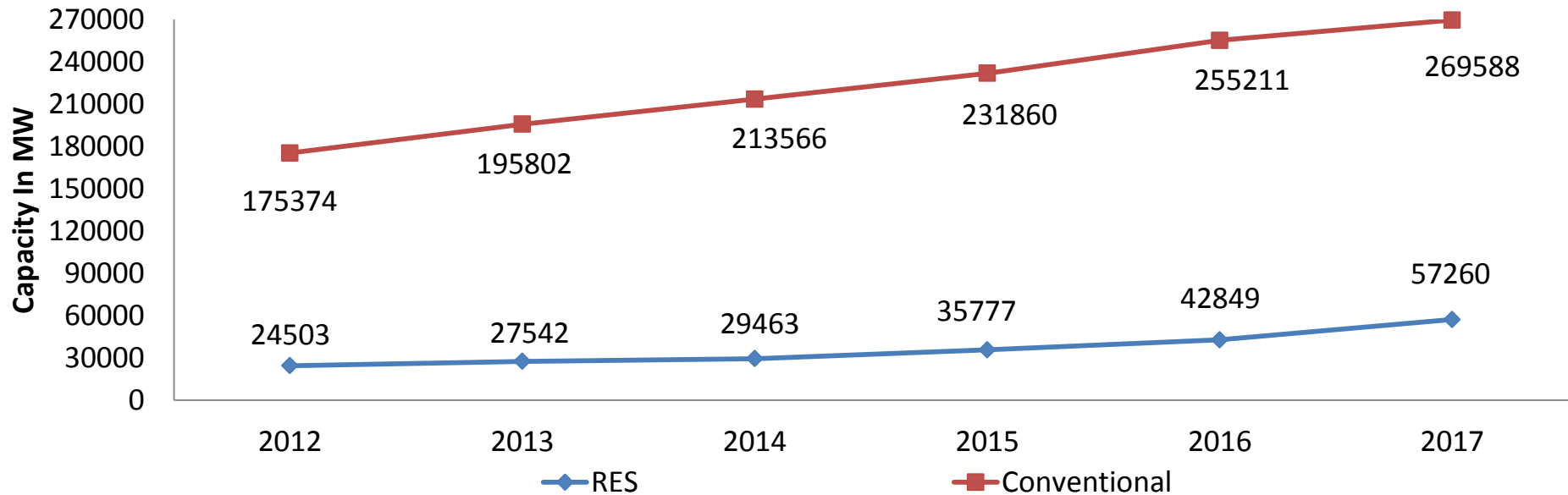
➤ Capacity Addition 2016 - 2017

- Conventional sources – 14378 MW
- Renewable sources – 14411 MW

➤ Percentage increase in installed capacity 2016-17

- Conventional sources – 5.6%
- Renewable Sources – 33.6%

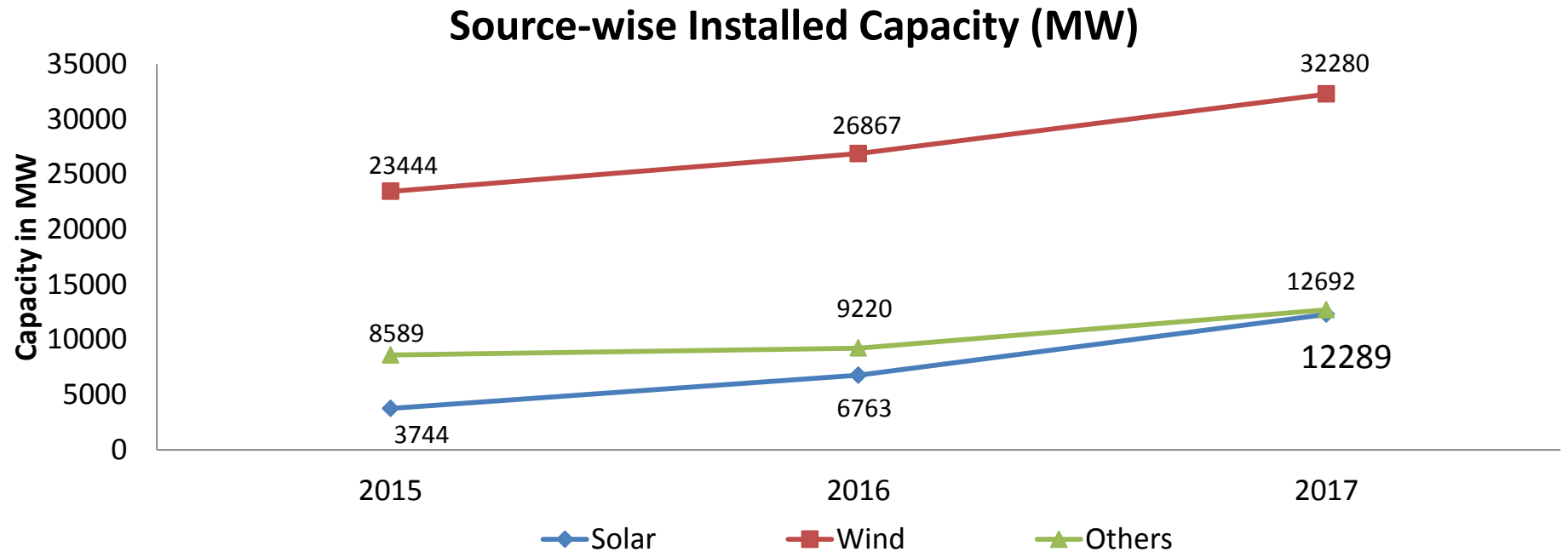
Installed Capacity (MW) of Power Stations



Source: CEA various years

Highlights of 2016-17

- Solar witnesses 81.7 per cent growth in capacity addition between 2016-2017
- Growth in capacity addition for wind remained at 20% for 2016-17



Source: CEA various years

Highlights of 2016-17

- Increase in electricity generation 2016-2017
 - Conventional sources – 331573 MU
 - Renewable sources – 16087 MU
 - Solar – 6051 MU
 - Wind – 12977 MU

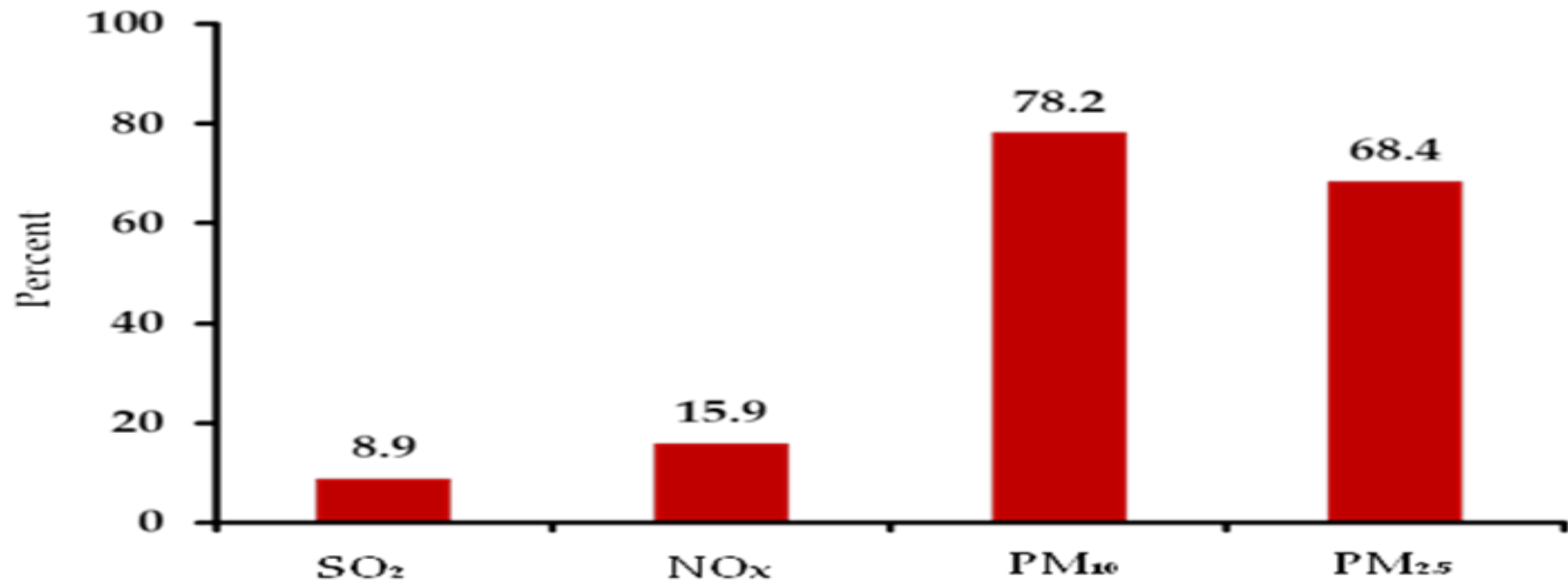
- Growth in electricity generation over previous year
 - Conventional sources – 44.8%
 - Renewable sources – 24.5%
 - Solar – 81.2%
 - Wind – 39.3%

Contd....

- Central grid electricity access in over 95% of total census villages.
- As of 31 March 2017, 99.25% villages had been electrified.
- The per capita electricity consumption 1122 units in 2016/17.
- As of March 2017, LPG coverage in India
 - Residential consumers – 234 million
 - Percentage increase from 2014 – 41%

Key Challenges

- 68.4% of NAMP sites exceeded the annual ambient concentration level ($40 \mu\text{g}/\text{m}^3$) of PM_{2.5} in 2016.
- 78.2% of NAMP stations exceeded the National Ambient Air Quality (NAAQ) Standards ($60 \mu\text{g}/\text{m}^3$) of PM₁₀ during 2015.



Percentage of NAMP stations that recorded higher ambient concentrations of pollutants during 2015 (the data for PM_{2.5} is for the year 2016).

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- Solid waste - collected 42.9 million tonnes/day
 - landfilled without treatment 31 million tonnes/day
 - treated 11.9 million tonnes/day
- Sewage generation in the country is around 61, 754 million litres per day (MLD)
- Developed sewage treatment capacity is 22, 963 MLD (37% of the total)

Thank You!

For more information, visit:

<http://www.teriin.org/projects/teddy/>