



**Narendra Modi**  
Hon'ble Prime Minister of India



**Piyush Goyal**  
Hon'ble Union Minister of State  
(Independent Charge)  
for Power, Coal and New &  
Renewable Energy

**Working of Ministry of New & Renewable Energy,**

**Power and Coal towards**

**24x7 Affordable Power for All**



सत्यमेव जयते

**Government of India**

## Achievements

Expected proceeds of **Rs. 2.63 lakh crores** from coal auctions including reduction in coal cost for power generation of Rs. 69,310 crores from only 29 out of 204 mines

Record **double digit (12.4%) increase** in thermal power generation (primarily coal based power) in Jun 14 - Feb 15

Coal production growth **the highest in 23 years**

**World recognition for India's thrust in renewable energy.** 5 fold increase planned with 170,000 MW by 2022. >270,000 MW commitments in solar, wind and others already submitted to Hon'ble PM.

**Over 125,000 school toilets** separately for boys and girls by 15<sup>th</sup> August 2015 as part of Swachh Bharat Abhiyaan

Massive thrust to **'Make in India'** program: Plans to award **orders of > Rs. 100,000 crores** from PSUs in the sector

## LEGACY

28 crore people were suffering without any electricity whatsoever and in many states, even where electricity was available, it was erratic and costly. DisComs were losing Rs. 70,000 crores annually and the nation was unable to tap coal, hydro & renewable power potential fully.

## PROVIDING AFFORDABLE POWER FOR ALL

### Create Competition

Electricity Act being amended (to provide mobile like choice):

- Greater customer power to choose and change
- Lower tariffs
- More competition
- Better quality of service

### Reduce Coal Cost

- Reverse bidding in coal auctions to reduce coal cost for power generation (by Rs. 69,000 crores in 9 mines, many more auctions to follow)
- State utilities also given 48 coal blocks to reduce their cost of coal and consequently reduce tariffs
- Reduction in coal theft using RFID/GPS tagging
- Coal linkage rationalization to reduce transportation costs by Rs. 6,000 crores (Customer focus to be brought in -- Phase 1 complete: Savings worth Rs. 1,000 crores)

### Higher Efficiencies

- Reduction in power theft through metering (will reduce burden on honest paying customers)
- Coal project monitoring portal for quicker decision making, faster dispute resolution and accelerated removal of bottlenecks
- Old and inefficient plants being replaced by modern plants to increase generation efficiency and therefore lower power tariff
- Improved coal quality using compulsory crushing, washing and third party sampling (positive environmental impact)

## DOUBLING COAL INDIA PRODUCTION IN 5 YEARS

- Better evacuation of coal planned by investing massively in new railway rakes, expediting 3 railway lines, modern equipment and mechanization
- Partnership between Railways, coal-bearing states and CIL to strengthen infrastructure creation, to be signed this month
- Focus on exploration activities for new coal discoveries

## RENEWED THRUST ON RENEWABLE ENERGY

- Focus on renewables towards long-term energy security of India, environmental protection and leaving behind a better planet for future generations
  - Off-grid and micro-grid home lighting systems for remote villages and solar water pumps for farmers and canal-top solar structures
  - Clean cookstoves for rural homes
- India's largest international conference on renewable energy, RE-Invest 2015 was inaugurated by Hon'ble PM in which multi dimensional aspects of renewable energy were deliberated resulting in concrete plans for the future. It saw 2860 participants from 42 countries and generated green commitments of 266,000 MW of commitments far in excess of our (already ambitious) targets of 170,000 MW by 2022.

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*Solar target increased by five times*

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## FOCUS ON BORDER STATES

Massive thrust to expedite projects in North East to overcome power shortages and increase prosperity. Grant of Rs. 9,865 crores for upgrading and strengthening power systems in 8 North Eastern States (Arunachal Pradesh, Sikkim, Assam, Manipur, Meghalaya, Mizoram, Tripura and Nagaland). Also solving disputes of pending hydro projects to reduce cost of power.

## A Coal Auction Story

### Process

Citing arbitrariness & illegality, 204 coal blocks cancelled by Hon'ble SC in Sep 2014

Crisis loomed over the nation with risks to energy, employment & the economy

e-auctions completed within record time to ensure continuity in coal production

Coal Bill passed in both houses of Parliament

### Outcomes

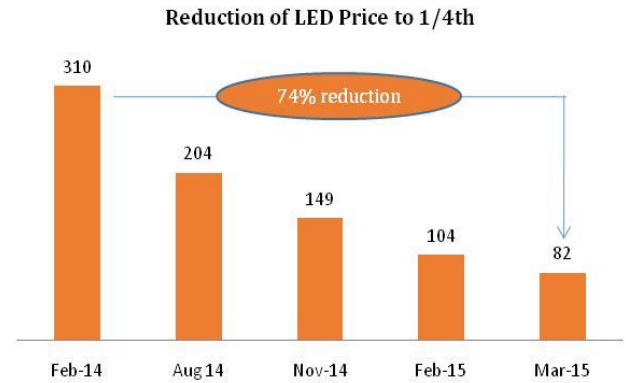
Regional Development: All proceeds (Rs. 3.35 lakh crores) to go to coal-bearing states especially in Eastern India

Reduction in power cost: Fuel cost savings of Rs. 69,000 crores resulting in tariff reduction

Rejuvenated Economy: Reduce import bill, generate momentum for Make in India and raise resources for renewables & Ganga cleaning

## ENERGY EFFICIENCY – ONE UNIT SAVED IS MORE THAN ONE UNIT GENERATED

We plan to save 10% energy to save 10,000 crore units, which can light up 11 crore lives and save Rs. 40,000 crores. Accordingly, a nationwide campaign for energy conservation has been launched. Nationwide street lights are to be replaced with LED lights. Pan India roll out in 100 cities in 3 years. Entire program funded by savings, and without compromising on technical and quality parameters.



*15 lakh crores of investments planned*

## FLAGSHIP SCHEMES FOR 24X7 POWER: Rs. 109,000 CRORES

Deen Dayal Upadhyay Gram Jyoti Yojana (DDUGJY) for rural India and Integrated Power Development Scheme (IPDS) for urban India are designed to offer 24x7 affordable power for all



DDUGJY

- Total Govt. exp: Rs. 63,027 cr
- Feeder segregation:
  - 24x7 power to rural homes, SSIs, cottage industries
  - Adequate power to farms
- New transformers and upgradation of last mile infrastructure
- Remote villages (dhanis) can be covered: Off-grids and micro-grids
- Plan to be finalized by states



IPDS

- Total Govt. exp: Rs. 45,816 cr
- Smart-metering for large consumers and tamper-proof meters at homes
- Comprehensive sub-transmission & distribution infrastructure upgradation in urban areas
- Rooftop solar for urban homes
- Limits on town population removed
- IT implementation for better customer service

## SWACHH BHARAT ABHIYAAN

The PSUs under the three Ministries are committed to active involvement in this effort. As a first step, they are investing over Rs. 2,250 crores for over 125,000 toilets separately for boys and girls by 15th August, 2015 particularly in the needy states such as Bihar, Odisha, West Bengal, Jharkhand, Chhatisgarh, Andhra Pradesh and Rajasthan. We are taking the Hon'ble Prime Minister's vision as a mission.

*Let's come together to work towards a clean, green and bright India*