

## Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM- KUSUM)

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Government of India has taken various policy measures to fulfil its commitment made in Paris Climate Agreement in 2015 to have 40% of installed power generation capacity from non-fossil fuel sources by 2030. To provide energy and water security to farmers and enhance their income, de-dieselise the farm sector, and reduce environmental pollution, the Government of India approved PM-KUSUM on 19.2.2019.

At present, over 30 million agricultural pumps are installed in India, out of which nearly 10 million pumps are diesel based. The Distribution Companies (DISCOMs) are not in a position to energize these pumps through grid connection as seen from the long waiting lists with such Distribution Companies. Hence there is a need to provide energy to these pumps through solar energy. Also, over 20 million grid-connected agriculture water pumps installed in the country consume more than 17 percent of total annual electricity consumption of the country. Solarization of the same can reduce dependence of these pumps on conventional sources of energy supplied by DISCOMs and thus reducing their burden of subsidy on agriculture consumption of electricity.

### Kusum Scheme Details

- Kusum Scheme implemented by: The Ministry responsible for this scheme is the New and Renewable Energy Ministry.
- Initially, the government will distribute 1.75 million off-grid agricultural solar pumps.
- 10000 Mega Watts Solar plants will be put up on lands that are barren.
- The state electricity distribution companies, also called, DISCOMS will buy the additional solar power produced by the farmers on barren lands. DISCOMS will get sops to buy this electricity.



- Tube wells and existing pumps of the government will be converted to run on solar power.
- Farmers will get a subsidy of 60% on solar pumps. It shall be deposited to their bank accounts directly. This subsidy is going to be shared by the central and the state governments. 30% of the cost will be obtained as a bank loan. Hence, only the rest 10% will have to be borne by the farmers themselves.

### Three Components of PM-KUSUM Yojana

#### Component A

- Under this scheme, workers will set up 10,000 MW of decentralized renewable energy power plants which are grid-connected on barren land
- These grids will be set up by farmers, cooperatives, groups of farmers, panchayats, Water User Associations (WUA), and Farmer Producer Organizations (FPO)
- Power projects will be set up within the radius of 5 km of the sub-station

#### Component B

- Under this scheme, farmers will be supported to install stand-alone 1.75 million solar agriculture pumps
- The capacity of the pumps will be up to 7.5 HP for the replacement of existing diesel agriculture pumps
- The capacity can be higher than 7.5 HP but financial support will only be provided up to 7.5 HP capacity

#### Component C

- This scheme is for solarisation of 10 Lakh Grid Connected Agriculture Pumps and individual farmers will be supported to solarize pumps those having grid-connected pumps.
- Extrasolar power will be sold to Distribution Companies of India (DISCOMs) at a pre-fixed tariff.

### Kusum Scheme Benefits

- It shall enable the decentralisation of the production of solar power.
- Transmission losses of DISCOMS will be under control.
- Subsidy burden on DISCOMS in the sector of agriculture will be decreased to a large extent.
- This will give farmers the chance to sell to the grid the extra power that is generated by the solar plants that are stationed on their barren lands and earn extra income.
- It will provide as a boost to the emerging green economy in India.
- The program will also aid in the de-dieseling of the agricultural sector in India. This will help to curb the pollution problem.
- Other benefits that will accrue to the farmers due to the implementation of this program include conservation of water, water security as well as energy efficiency.
- With the introduction of the Kusum solar pump scheme, diesel consumption will be reduced and the sources of diesel will also be safe for the coming generation.

### Procedure for Online application for PM-KUSUM Yojana

- First of all, you have to go to its official website <https://mnre.gov.in>.
- After filling the application online, you will need to provide following documents:

- Aadhaar Card
  - Bank account passbook
  - Land Documents
  - Mobile number
  - Address proof
  - Passport size photo
- Once the application form and documents are approved you will get registered under PM-KUSUM scheme.
  - If you face any problem or you want to get any information, then you can contact PM Kusum Scheme. Helpline number on which you can get information by calling or register any complaint.
- PM Kusum Scheme Contact Number: - 011-243600707, 011-24360404
  - PM Kusum Scheme Toll Free Number: - 18001803333

