

MINISTRY OF NEW AND RENEWABLE ENERGY

KUSUM:

- ❖ Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM) is a farmer-oriented solar power scheme that will allow setting up grid-connected solar plants in rural areas and off-grid solar pumps.
- ❖ It involves decentralized solar power production of up to 28,250 Megawatt (Mw) over five years.
- ❖ It aims at boosting farmers' income by allowing them to sell additional power to the grid through solar plants.
- ❖ Under the scheme, the government plans to incentivise farmers to run solar farm water pumps and use barren land for generating power for extra income up to Rs 60,000 per acre every year.
- ❖ It will also have provisions for solarization of tube wells and lift irrigation projects.
- ❖ It is implemented by Ministry of New and Renewable Energy.
- ❖ Various components of the Scheme
 1. Utilisation of barren land by farmers to generate 10,000 MW of solar energy and sell it to grid.
 2. Providing incentives to DISCOMS to purchase the electricity produced
 3. Subsidy to farmers for buying 17.5 lakh off grid solar farm pumps.
 4. Solarisation of grid-connected farm pumps involving 7,250 MW capacity
 5. Solarisation of government departments' grid connected water pumps involving 8250 MW capacity
- ❖ The other benefits of the scheme include
 1. reduction in transmission losses,
 2. support the financial health of discoms by cutting the burden of agricultural subsidy;
 3. supporting states in meeting their Renewable Purchase Obligation (RPO) targets;
 4. promotion of energy efficiency; and providing water security to farmers.

Surya Mitra Scheme:

- ❖ The scheme is aimed at creating 50,000 trained solar photovoltaic technicians by March 2020.
- ❖ The course is a 600 hours (i.e. 3 months) skill development program designed to create skilled manpower in installation, commissioning, and Operation & Maintenance of solar power plants and equipment.
- ❖ The objective is to provide employability and entrepreneurship to rural and urban youth & women. Special emphasis is given to skill youth from SC/ST/OBC categories.
- ❖ The qualification required to participate in the program is ITI (Electrical & Wireman) / Diploma in Engineering (Electrical, Electronics & Mechanical).
- ❖ Higher qualified participants such as B.Tech etc are not eligible for this programme.
- ❖ The programme is 100% funded by GOI and implemented by National Institute for Solar Energy (NISE) across the country.
- ❖ In addition, short term training programmes for small hydro, entrepreneurship development, operation & maintenance of solar energy devices and boiler operations in co-generation plants have been organized.

- ❖ National Institute of Solar Energy (NISE) is an autonomous institution of MNRE.

Jawaharlal Nehru National Solar Mission:

- ❖ The mission is also known as National Solar Mission and is also one of the eight National Missions under National Action Plan on Climate Change (NAPCC).
- ❖ The Mission has set the ambitious target of deploying 20,000MW of grid connected solar power by 2022, which was later revised to 1,00,000 MW by 2022.
- ❖ The target will principally comprise of 40GW Rooftop and 60GW through large and medium scale grid connected solar power projects.
- ❖ There is also 30% capital subsidy for installation of SPV applications like solar lighting systems, solar PV power plants and solar pumps under solar off-grid application scheme of JNNSM in rural as well as urban areas throughout India.

Solar City:

- ❖ The basic aim is to motivate the local Governments for adopting renewable energy technologies and energy efficiency measures.
- ❖ The Solar City aims at minimum 10% reduction in projected demand of conventional energy at the end of five years.

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