

OREDA

Renewable Energy For All, Forever



ODISHA RENEWABLE ENERGY DEVELOPMENT AGENCY (OREDA)

S-3/59, Mancheswar Industrial Estate Bhubaneswar-751010

Ph.: 91-674-2588260 / 2586398 / 2585898, Fax: 2586368

Website: www.oredaorissa.com

Green Technologies for building future

Odisha Renewable Energy Development Agency (OREDA) was constituted in the year 1984 under the aegis of Science and Technology Department, Government of Odisha to promote, popularize and exploit of new and renewable energy resources (Biomass, solar, wind, small/ mini hydro) in the state. In this direction OREDA implements all schemes and programmes of new and renewable energy of the state government and of Ministry of New and Renewable Energy, MNRE, Govt of India.

Mission : Promote Research, Development and Popularization of new and renewable energy sources of energy.

Vision : Provision of minimum illumination to all remote un-electrified villages by 2012 and augmentation of the renewable energy use in those areas. Renewable energy contribution in the grid to 10 % by 2015 through Jawaharlal Nehru National Solar Mission (JNNSM) and Renewable Power Obligation(RPO).

Renewable Energy Potential of the state

Resources	Potentials
Biogas Plant	> 50,00,000
Solar PV Power & Thermal	> 14,000 MW
Wind Energy	> 900 MW
Biomass Power	350 MW



Major Programmes of OREDA

Remote Village Electrification
Renewable Energy Power Projects under RPO
Off Grid Solar Power Projects (JNNSM)
National Biogas and Manure Management Programme(NBMMP)
Solar Photovoltaic and
Thermal Programme

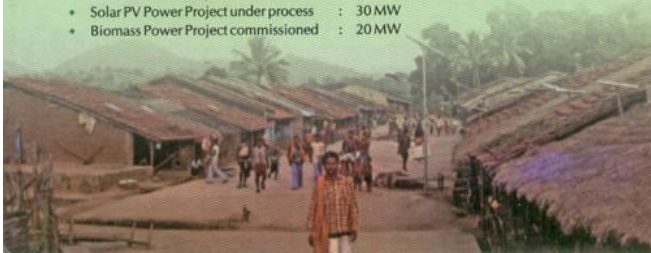


Renewable Energy Power Projects in the state

- Estimated Potentials : 2000 MW (Non solar)
- Solar Power Potential : 14,000 MW
- Current Solar Power Obligation : 173 MW
- Total Renewable Power Obligation : 2102 MW

Achievements

- Solar PV Power Projects commissioned : 13 MW
- Solar PV Power Project under process : 30 MW
- Biomass Power Project commissioned : 20 MW



Remote Village Electrification

- It is an endeavour to illuminate every household in the state
- These are located within forest, hill tops, cut off areas and such remote locations.
- OREDA is striving hard to provide minimum power to these villages from locally available resources.
- This electrification process would be further augmented.

Achievements

- Villages electrified with solar PV systems : 920
- Villages under electrified : 812

National Biogas and Manure Management Programme (NBMMP)

Biogas plant can be set up using civil construction materials, Plastic materials for portable and large plants.

- Provide clean fuel for cooking, lighting and
- Reduces use of LPG and other conventional fuels
- Produce rich manure, bio fertilizer and reduces use of chemical fertilizers
- Green house gas emission curbed

Achievements

- Set up 2,26,000 family type biogas plants in the state so far
- Biogas based power generation on 100% gas engine is commissioned at Sri GopalKrishna Gosal, Nuabazar, Cuttack.

Solar Photo-voltaic

- To encourage use of SPV for lighting and other applications
- To save Kerosene, diesel and other fossil fuels
- To mitigate climate change consequences

Achievements

- Installed 5541 Solar street lights, 5156 Home lights, 9603 solar lanterns, 56 pumping systems and 49PV power plants of total capacity 107.81Kwp

Solar Thermal

- To promote cooking and thermal use through solar cooker, water heating systems
- Reduce dependence on LPG, kerosene and other fossil fuel
- To address climate change issues

Achievements

- Solar cooker : 3500
- Solar water heating system : 168,000 lpd



Adopt renewable energy, mitigate climate change

Special mention

- OREDA has introduced channel partner mechanism throughout the state, please visit website www.oredaorissa.com for detail
- OREDA has set up Renewable Energy Device Sale and Service Centre in each district through PPP mode
- OREDA is going to introduce modified and revised Improved chulah (cook stove) scheme
- A 50 Kwp solar PV power plant on the roof top of Secretariat has been commissioned and working
- Various renewable systems are being set up at Raj Bhavan and Sri Jagannath Mandir, Puri
- OREDA is vigorously pursuing for SPV power packs in health centres in selective district to compensate erratic grid power
- OREDA is formulating scheme for SPV power packs in schools for computer and other applications.
- OREDA is going install SPV street lights along the road QUAT to Delta and AG square to Acharya Vihar
- Building bye law is being revised for mandatory use of Solar Water heating Systems and ECBC/ GRIHA in new buildings in the state.
- Assessment of wind resources is going on in 15 different sites in the state
- Solar Energy Parks in 3 places are proposed.

Biju Patanik Energy Park - A new destination in temple city

The park near Khandagiri caves is the first of its kind in the state and unique in the country in many ways. It offers a rare blend of technology and amusement. It is attracting to children, students and people of all walks of life. The building has been designed using solar passive architecture.

Attractions

Indoor

- Interactive media centre with energy quiz geothermal
- Display gallery with energy pyramid
- Fully equipped conference hall
- Solar Waste to energy knowledge centre

Outdoor

Live model of hydel, tidal, geothermal energy Various renewable energy gadgets-solar cooker, solar street light, solar drier, solar power plant, aerogenerator, solar pump. Children corner-energy slide, energy see-saw, energy drum.

Entry fee : Rs.5/- for all, Rs.2/- through schools, open 9AM to 9.00 PM

Conference hall : Rs.3000/- per day & Rs.2000/- for half-day

Events : Rs.10,000/- per day / night.





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