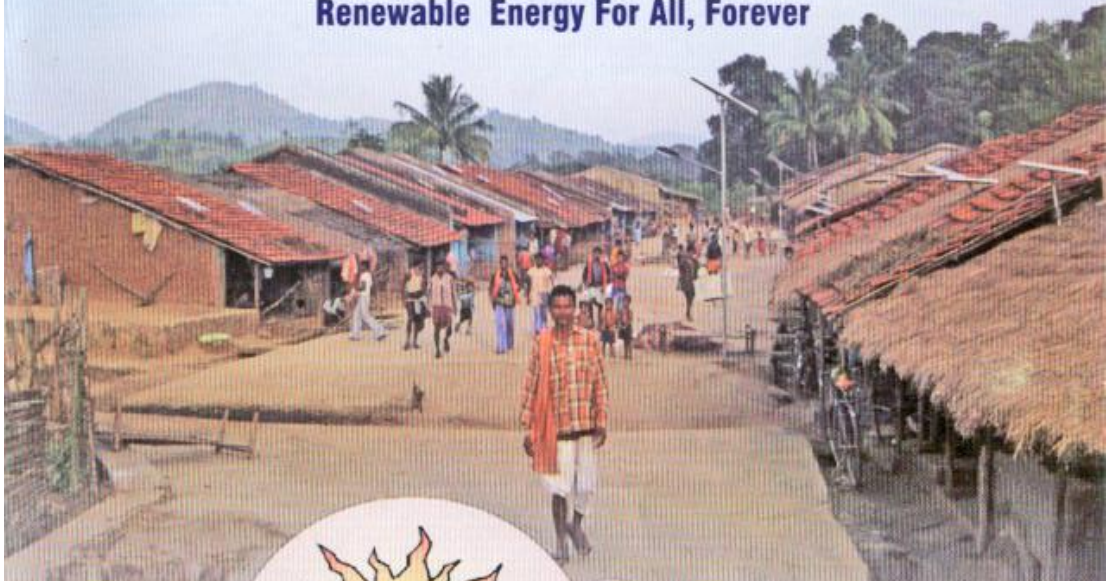


OREDA

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

The Odisha Renewable Energy Development Agency was constituted as a State Nodal Agency in the 1984 under aegis of Dept. of Science and Technology, Govt. of Odisha with a view to popularize the exploitation and use of renewable energy resources in the State.

Mission : Promote Research, Development and Popularization of Non-Conventional and Renewable Sources of Energy.

Vision : Provision of minimum illumination to all Remote Un-electrified Villages by 2012. Increase the share of Renewable Energy to 10% of the total power mix by 2012. Accelerated use of RE Technology in all sectors of economy.

Major Programmes Implemented by OREDA

- Remote Village Electrification
- Decentralized Distributed Generation
- Renewable Energy Power Projects
- Off-grid Solar Power Projects
- National Biogas and Manure Management Program
- Solar Photovoltaic Program
- Energy Plantation and Bio-diesel Production

Renewable Energy Power Projects

- Estimated Potential in Odisha : 2000 MW (excepting solar)
- Solar Power has unlimited potential
- Current solar power obligation: 19 MW
- Total renewable energy power obligation: 143 MW
- With future thermal power capacity addition solar power obligation would increase to 95 MW and Renewable Power obligation would increase to 441 MW
- State Climate Change Action Plan provides for a huge renewable power portfolio mainly through private investment



Achievement

- Solar power Project Commissioned : 4 MW
- Biomass Power Project Commissioned : 20 MW

Remote Village Electrification

Endeavours to Illuminate every Household

- More than 2000 villages in the State are deprived of conventional power as the grid cannot reach them
- These are located within forests, on top of mountains, islands, cut-off areas and such other remote locations

- OREDA has stepped in to minimum power to all these villages from locally relevant renewable energy resources

Villages electrified : 613
 Villages under electrification : 756
 Target for 2011-12 : 500



District	Electrified Villages	Under Electrification
Balasore	12	10
Boudh	10	8
Deogarh	8	6
Kandhamal	6	4
Koraput	4	2
Koraput	2	1
Mayurbhanj	1	1
Ray	1	1
Subarnapur	1	1
Sundargarh	1	1
Uttaranchal	1	1
Uttaranchal	1	1
Uttaranchal	1	1
Uttaranchal	1	1

National Biogas & Manure Management Programme (NBMMP)

- Provide clean fuel for cooking, lighting and thereby reduce use of LPG and other fuel
- Provide bio-fertiliser & reduce use of chemical fertiliser
- Mitigate climate change issue



Achievement

- Installed 2,18,768 family type Bio-gas Plants in the state so far
- Bio-gas based power generation system on 100% biogas engine is about to be commissioned at Sri Gopalkrishna Gosala, Nuabazar, Cuttack

Solar Photo-voltaic

- To encourage use of SPV for lighting and other application
- To save kerosene, diesel and other fuel
- To mitigate climate change issue



Achievement

- Installed 5541 Street Lighting, 5156 Home lighting 9603 Solar Lanterns, 56 Pumping system and 29 SPV power plants of total capacity of 77.165 kWp

Energy Plantation and Bio Diesel Productions

- Odisha Renewable Energy Development Agency is the nodal agency for Bio-diesel development in the state and function as the single window for promotion and facilitation for propagation and promotion of non forest oil seed bearing tree species like Jatropha carcass

Benefit of Bio-diesel production

- Total expected (potential) production : 14,000/- KL per annum
- To utilize wasteland : 0.6 Million Hect
- Expected employment generation 100 Million Man-days
- Additional organic manure : 42,000 tonne

Biju Patnaik 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 which is sure to attract people from all age groups and all walks of life. The Park is set up in sylvan surroundings. The building have been designed using solar passive architecture and separate space has been earmarked for renewable energy devices, interactive media exhibits, display/anomations and children's corner.

Facilities Available

Indoor

- ♦ Interactive Media centre with energy quiz
- ♦ Display Gallery with energy pyramid
- ♦ Fully equipped conference hall
- ♦ Waste to energy knowledge centre

Outdoor

- ♦ Live model hydel energy
- ♦ Live model on tidal energy
- ♦ Live model on Geothermal energy
- ♦ Various renewable energy Gadgets- biomass Gasifier, Solar cookers, Solar Street lights, Solar Dryer
- ♦ Children corner-marry-go-round, energy slide, energy see-saw, energy drum

Entry Fee : ₹ 5 for all, ₹ 2 through school

Open : 9am to 9pm, Monday closed

