

Programme on Energy from Urban, Industrial and Agricultural Wastes / Residues during 12th Plan period - 2013

HIGHLIGHTS

Nodal Agency	Ministry of New and Renewable Energy
Applicable Technologies	Energy projects from urban, industrial and agricultural wastes/residues.
Policy Period	12th Five Year Plan. (extended till 30th Sept 2017)
Targets under Policy	Not available

Incentive Amount

- | | |
|--|--|
| 1. Power generation from municipal solid waste | Rs.2 crore/MW (max.Rs.10 crore/project). |
| 2. Biogas power generation from sewage treatment plant or through biomethanation of urban and agricultural waste/residues including cattle dung, or production of bio-CNG. | Rs.2 crore/MW or bio-CNG from 12000 m3 biogas/day (max. Rs.5 crore/project). |
| 3. Biogas generation from agricultural, industrial and urban wastes/residues. | Rs.0.50 crore/MWeq. (12000 m3 biogas/day) (max. Rs. 5 crore/project). |
| 4. Power generation from biogas (engine/gas turbine route) and production of bio-CNG for gas cylinders. | Rs.1 crore/MW or bio-CNG from 12000 m3 biogas. (max. Rs.5 crore/project) |
| 5. Power generation from biogas, solid industrial, agricultural waste/residue excluding bagasse, through boiler + steam turbine configuration. | Rs.0.20 crore/MW (max. Rs. 1 crore/project). |
- Financial assistance would be provided for organizing training courses, business meets, seminars/workshops and publicity/awareness, on case-to-case basis, subject to a maximum of Rs. 3 lakhs per event/activity.

Eligibility Conditions	<p>Projects based on:</p> <ul style="list-style-type: none"> • Any bio-waste from urban, agricultural, industrial/agro - industrial sector (excluding bagasse). • Co-generation/power generation and production of bio-CNG from biogas. • Municipal solid waste based projects selected through transparent competitive procedure. <p>Other conditions:</p> <ul style="list-style-type: none"> • Mixing of other renewable wastes, including rice husk, bagasse, sewage, cow-dung, other biomass and industrial effluents (excluding distillery effluents) will be permissible. • In MSW to power projects, any waste of renewable nature or biomass can be mixed to the extent of 25%, based on gross calorific value. Use of maximum 25% of conventional fuels would be allowed in biomass co-generation (non-bagasse) projects based on agricultural wastes and residues, excluding bagasse. • Projects for generation of power from biogas will be based either on 100% biogas engines or steam turbines with a minimum steam pressure of 42 bar. • Projects based on waste-to-energy conversion technologies, namely, bio methanation, combustion, gasification, pyrolysis or a combination thereof. • Projects based on biomethanation of MSW should be taken up only on segregated/uniform waste unless it is demonstrated that in Indian conditions, the waste segregation plant/process can separate waste suitable for biomethanation. <p>· There will be no minimum/maximum limit on capacity of projects supported under this programme, except that cattle dung-based power generation projects of up to 250 kW capacity will not be considered under this programme.</p>
Implementing and Monitoring Agency	<ul style="list-style-type: none"> • Implemented by state nodal agencies, urban local bodies/municipal corporations, private and public sector enterprises and organizations as well as NGOs including energy service companies (ESCOs). • State nodal agencies will closely monitor project execution and provide guidance for its timely completion, in addition to submitting periodic progress reports to MNRE. • MNRE may also monitor the progress of project implementation and performance through a monitoring committee consisting of representatives from MNRE, financial institution(s)/banks, technical institutions and state nodal agencies.

Links	http://mnre.gov.in/schemes/offgrid/waste-to-energy/scheme-15/
References	http://mnre.gov.in/file-manager/offgrid-wastetoenergy/programme_energy-urban-industrial-agriculture-wastes-2012-17.pdf