

Program Eligibility Requirements

Sustainable biomass projects, meeting the following requirements, may be eligible for rebates.

- The system must be a behind-the-meter system, meaning that estimated system output must be less than annual, actual, onsite consumption.
- The system must either meet Class 1 renewable energy requirements, as defined by legislation, or it must pass the DEP Sustainability Determination Test.
- The system can incorporate multiple technologies, including fuel cells, direct combustion, or gasifiers.

Biopower Sources

Unlike solar and wind, biopower can come from a multitude of sources. The following are just a few examples of biopower projects that are supported by *New Jersey's Clean Energy Program*:

- Wastewater treatment facility capturing anaerobic digester gas
- Food manufacturers, supermarket or animal farms using aerobic digestion to gasify organic waste
- Lumberyard or forestry management unit directly combusting or gasifying wood waste
- Landfill converting methane gas to power
- Big box retailer combusting or gasifying paper and cardboard waste into power
- Hospital with a sustainability certified, biofuel powered fuel cell

If you think you have a potential biopower project, call 866-NJSMART today to get started.

Reduce your energy usage

Adoption of clean, renewable energy marks a big step toward climate change solutions. However, the cleanest kilowatt is the one not used.

New Jersey's Clean Energy Program offers energy efficiency programs, information, and resources to help residents, businesses, municipalities, and other organizations reduce their energy consumption. By implementing energy efficiency measures first, you not only reduce your overall energy use, but you may also reduce the amount of renewable energy capacity that you need, saving you money for years to come. Visit NJCleanEnergy.com to get started.

Learn about more renewable energy options

Additional renewable energy technologies, including solar and wind, to help us meet our energy goals and reduce our use of fossil fuels.

For more information, technical support, and incentives for wind, biopower, and solar initiatives, call **866-NJSMART** or log on to NJCleanEnergy.com/reip.



Biopower— Turning Waste into a Renewable Energy Resource

Capitalize on sustainable resources.



It's a smart way for New Jersey municipalities, farms, and businesses to reduce their carbon footprint, stabilize electric costs, preserve natural resources, and support the economy.



New Jersey is capitalizing on sustainable, organic resources.

Municipal and industrial facilities, waste water treatment plants, and farms across New Jersey are already seeing the benefits of biopower.

- Turns waste into a resource
- Reduces pollution
- Lessens our dependence on fossil fuels
- Strengthens our commitment to our planet's future
- Supports local jobs and our State's economy

What is Sustainable Biopower?

Organic matter that is available on a sustainable basis, including food crops, grassy and woody plants, residues from agriculture or forestry, or the organic component of municipal and industrial waste is considered sustainable biomass or biomass feedstock.

Biomass can be converted to a synthetic gas, like landfill gas or methane gas, through a conversion process of either gasification, direct combustion, pyrolysis, or anaerobic digestion, among others. The gas is then used to create electricity by technologies such as fuel cells, micro-turbines, and combustion turbines.

The New Jersey legislature has classified sustainable biomass as a Class I Renewable Resource. To be classified as such, project owners must receive a sustainability determination from the New Jersey Department of Environmental Protection (NJDEP).



Monmouth County's one megawatt sustainable biopower project produces enough energy to support their materials processing and recovering facility.

Getting Started

The New Jersey Board of Public Utilities and *New Jersey's Clean Energy Program™* make it easy to get started by offering financial and technical assistance. The first step is to submit an application package. Additional information and applications can be found at NJCleanEnergy.com/reipapps.

Financing Your System

Rebates and Grants - New Jersey's *Renewable Energy Incentive Program (REIP)* provides rebates that reduce the upfront cost of installing sustainable biopower projects. Biopower projects include technologies such as microturbines or fuel cells which produce electricity from sustainable biomass that has been converted to a biogas, such as landfill or methane. In addition to biopower installation rebates, incentives may also be available for biopower feasibility studies.

Tax Credits - Biopower projects may be eligible for a federal investment tax credit and/or a renewable energy production tax credit. Visit dsireusa.org for more information about federal tax incentives or speak with a tax specialist.

Class I RECs - Eligible biopower project owners in New Jersey with electric distribution grid-connected systems can generate Class I Renewable Energy Certificates (RECs). RECs can be sold or traded separately from the power, providing biopower system owners with a recurring source of revenue to help offset the cost of installation, operations, and maintenance.

Net Metering - This allows qualified customers to receive full retail credit for electricity generated on an annual basis. Each year, on the anniversary of the system's interconnection, the customer will be compensated for any unused credit at the cost of wholesale power.