



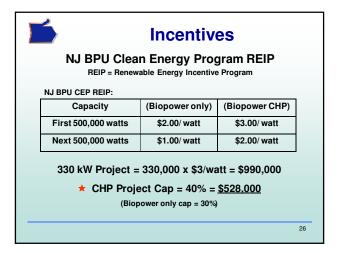
WWTP CHP Economics

CHP System CapX at \$4,000 per kW = \$1,320,000

Net CHP Benefit against existing DG Boiler = \$162,060 Simple Payback = 8.1 years without Rebates Rebate Cap = 40% of project ⇒ 4.9 year Simple Payback

Net CHP Benefit against Flaring = \$300,030 Simple Payback = 4.4 years without Rebates Rebate Cap = 40% of project ⇒ 2.6 year Simple Payback

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Incentives

Federal 10% Investment Tax Credit for CHP:

The credit is equal to 10% of expenditures, with no maximum limit stated. Eligible CHP property generally includes systems up to 50 MW in capacity that exceed 60% energy efficiency, subject to certain limitations and reductions for large systems. The efficiency requirement does not apply to CHP systems that use biomass for at least 90% of the system's energy source, but the credit may be reduced for less-efficient systems. This credit applies to eligible property placed in service after October 3, 2008.

The American Recovery and Reinvestment Act of 2009, which allows Production Tax Credit-eligible facilities to use the 30% ITC, has implications for some technologies that were already potentially eligible for either incentive in some form. Certain geothermal and open- or closed- loop biomass systems (which may include certain types of biomass CHP projects) now qualify for a 30% tax credit through December 31, 2013, the in-service deadline for these technologies under the PTC.

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Incentives

Biopower CHP Feasibility Study Incentives. Eligibility for feasibility studies is only for behind-the-meter non-residential projects. This category includes all commercial, public, and non-profit organizations.

Expected Project Size (kW)	Incentive Award Range
100 kW - 500 kW	50% of the cost of the feasibility study or \$25,000, whichever is less
501 kW - 1,000 kW	50% of the cost of the feasibility study or \$50,000, whichever is less

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Incentives

NJ BPU Clean Energy Program REIP:

When you submit a complete biopower application packet, you will receive a rebate approval letter within 4 - 6 weeks of receipt, assuming that all eligibility requirements are met. All projects must be approved by the Market Manager; projects requesting a rebate of \$300,000 or greater also require BPU approval, which may delay receipt of the approval letter by a few additional weeks. Once approved, REIP applicants will have 18 months from the date of the approval letter to satisfy all program requirements and submit the Final As-Built Packet to request a state inspection.

Incentives will be processed by the Market Manager and paid in full upon project completion and inspection.

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Incentives

10 MGD Plant with 150,000 CFD of Digester Gas 330 kW CHP Plant

Gross CapX	\$1,320,000
NJ REIP Grant	\$528,000
Fed 10% ITC	\$132,000
red 10% ITC	\$132,000
Net CapX	\$660,000
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Simple Payback versus Boiler	4 Years
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10-Year Net	\$960,600
Annual Simplified ROI	14.5%

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