

**Client:**  
Bergen County Utilities  
Authority (BCUA), NJ

**Construction Cost:**  
\$6.5 million

**Engineering Fee:**  
\$512,300.00

**Project Duration:**  
December 2013 to Present

Remington & Vernick Engineers was retained by the Bergen County Utilities Authority (BCUA) to provide project management services for the Biopower Expansion Project. The firm prepared a grant application that resulted in the BCUA receiving a \$2.5 million grant awarded by the New Jersey Board of Public Utilities (BPU). The grant was based on the BCUA expanding its Combined Heat and Power (CHP) Facility to include the installation of a third cogeneration unit powered by the biogas generated at the BCUA Little Ferry Water Pollution Control Facility for generating heat and electricity.

#### Phase 1 – Preparation of Request for Qualifications and Evaluation

- Prepare a Request for Qualifications to evaluate Energy Services Companies (ESCO) that qualify to design and construct the third cogeneration unit.

#### Phase 2 – Preparation of Request for Proposal and Evaluation

- Meet with BCUA representatives and prepare a Request for Proposals which will provide details for the project using the standard RVA Specification format. \
- Prepare an engineer's construction cost estimate for the project and submit it to the BCUA.
- Issue the RFP to the qualified ESCOs.
- Review each proposal and evaluate if the ESCO can perform the project within the costs.
- Provide a recommendation of award to the BCUA.

#### Phase 3 – Construction Management

- Coordinate with the ESCO and the BCUA to prepare all permit applications necessary to construct and operate the project.
- Review ESCOs shop drawings and requests for information.
- Review and consult with the BCUA on any and all drafts, revisions, or amendments to the agreement between the ESCO & BCUA.
- Review all proposed contract amendments regarding price and time as submitted to the BCUA and review all other subsequent revisions.
- Prepare construction reports to include minutes of project meetings, financial modeling, scheduling timetables and internal project updates and where necessary provide comments and recommendations to the BCUA as it pertains to the installation of the cogeneration unit.
- Coordinate and attend project management and construction management meetings.
- Review Operations and Maintenance Manual submission and training by ESCO.
- Prepare and submit applications for the BCUA for available utility incentive and grants that are applicable to the installation of a cogeneration facility using biopower in the State of New Jersey.
- Review billing data from the ESCO and make recommendations for Payment.
- Provide additional services in accordance with the Professional Engineers Society's Standard Form of Agreement.
- Provide assistance with obtaining grant reimbursement from NJBPU.

The Biopower Expansion Project must be completed in 18 months after the award date of the Renewable Energy Incentive Program (REIP) grant resulting in a deadline during April 2015. Remington & Vernick Engineers will make every effort to ensure completion of the project and communicate with the Board of Public Utilities (BPU) and the REIP program to provide progress reports on the project.

## Biopower/Combined Heat & Power Plant Expansion

Bergen County, New Jersey

VARIOUS ENGINEERING & TECHNICAL SUPPORT SERVICES



REMINGTON & VERNICK ENGINEERS and Affiliates

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