



## Matthew Nyquist, PE

Project Engineer/Mechanical Engineer

### **Background**

Matt Nyquist's project engineering and management experience includes mechanical system design, coordinating design efforts across all engineering disciplines, energy modeling and engineering project management as a member of a design-build team. His involvement with Distributed Generation and Combined Heat and Power projects has included initial energy modeling for feasibility assessment, engineer of record, construction and startup support for gas turbine and reciprocating engine projects.

### **Education**

BS, Mechanical Engineering  
The Pennsylvania State University

### **Professional Licenses & Certifications**

Professional Engineer: FL, PA, OH

### **Select Project Experience**

**Eglin Airforce Base Distributed Generation & Microgrid Project, Valparaiso, FL**  
Project Manager for a 3 MW distributed generation project. Concord developed the engineering concept to develop a turnkey Energy Savings Performance Contract for the federal government. The three units operate in parallel with the utility grid and have the capability of providing backup power within 3 separate microgrid configurations in the event of a utility failure. Responsibilities included pre-construction development support, engineer of record & startup support.

**Villanova University Distributed Generation Design Build Project, Radnor, PA**  
Engineering Project Manager for a 6 MW distributed generation facility adjacent to Villanova's existing steam plant. Concord developed the engineering concept to compliment a 3rd party financed business model that emphasized resiliency and hedging the client against PJM ICAP and transmission charges as well local distribution charges. The project includes two simple cycle natural gas fueled reciprocating engine generator packages and one CHP unit. The three units operate in parallel with the utility grid and have the capability of providing standby backup power in the event of an emergency utility failure. Responsibilities included pre-construction development support, engineer of record, procurement of sub-contractors and start-up/commissioning efforts.

**AEP Tosoh Distributed Generation Project, Grove City, OH**  
Project Manager for a 4 MW distributed generation facility to serve a manufacturing facility in Grove City, OH. The project includes three simple cycle natural gas fueled reciprocating engine generator packages designed to operate in parallel and in island mode as needed to meet the facility's needs.

**Sofidel America Combined Heat & Power Plant, Circleville, OH**  
Project Manager for construction support, start-up engineering and commissioning efforts for a new Combined Heat and Power Plant to serve the new tissue manufacturing facility. Two (2) separate 8 MW CHP Plants provide a significant portion of the facility's total electricity and thermal demand. The heat recovery system utilizes both direct exhaust heat and generated steam to supply thermal energy to the production process. Combustion turbine exhaust passes through extractor hoods used to dry rolls of paper before entering a fired heat recovery boiler to produce steam.

**Aberdeen Proving Ground Edgewood Area Combined Heat & Power Plant, Gunpowder, MD**  
Project Engineer for a Combined Heat and Power Plant at the Aberdeen Proving Ground Edgewood Area. The \$30 million project included the installation of a dual fuel 7.9 MW combustion turbine generator and duct fired heat recovery steam generator with a selective catalytic reduction system. The new CHP system was fully integrated into the existing WW1 era boiler plant and required upgrades to boiler feedwater pumps, water treatment, fuel oil storage and conditioning systems. Concord developed the engineering concept to develop a turnkey Energy Savings Performance Contract and provided engineer of record and startup support services as part of the design build team.