

MID-ATLANTIC COMBINED HEAT AND POWER APPLICATION CENTER

-- RESOURCE LIST --

The Mid-Atlantic CHP Application Center has prepared a database of local firms that provide CHP-related products which is being provided as a service for individuals who are looking for information on CHP. No formal evaluation of the companies or organizations identified in this database has been performed, therefore there is no endorsement, implied or otherwise, made by the identification of a company or organization in this database list. As is normal prior to entering into any contract or conducting significant business with any company or organization, it is recommended that a prudent investigation of that company or organization be made.

Company & Contact Information

Company Name: [Bayfront Consulting, LLC](#)
(dba Project Sources)

Website Address: www.projectsources.com

Primary contacts:

For CHP; Manufacturer Selection & Analysis; Power Plant Development, Execution and Management:

Name: [Dan Russell](#)
Title: [Principal, VP](#)
Address: [2122 Bayfront Ter](#)
[Annapolis MD 21401](#)
Phone: [410-757-6946](#)
cell: [443-995-6065](#)
email: DRussell@projectsources.com

Contact for Power; Manufacturer Selection & Analysis; Power Plant Development:

Name: [Torsten Astrom](#)
Title: [Principal, President](#)
Address: [2126 Bayfront Ter](#)
[Annapolis MD 21401](#)
Phone: [410-369-3462](#)
Cell: [443-994-3747](#)
email: TAstrom@projectsources.com

Product / Services Provided

The Bayfront Consulting staff has extensive experience in the energy, power plant and construction sectors including technology consulting, project development, planning of projects, EPC turnkey construction management and project execution. For the last 20 years we have worked on power generation and construction projects in the United States, the Americas and in other parts of the world. Our work has included challenging project schedules, tight budget constraints, and new innovative technology where new standards have been set. Our history includes opening new markets and new trends; development of first independent power project (IPP) in Latin America, pioneering the use of large power barges for fast-track power projects, construction of complex cogeneration projects using large modern natural gas fired reciprocating engines combined with duct firing for increased steam output, etc.

We offer value to those considering distributed power plants including CHP projects by providing the resources, means, methods and processes to remove chaos and confusion from the equation and help deliver a project that makes good business sense, meets the requirements and is delivered on-time and in a cost-effective fashion. Each project is unique – Project Sources applies a systematic approach to each project so more standard less risky methods are used to delivery the power project - leveraging prior

lessons and experiences gained from numerous successful power and construction projects. This approach employs a “road map” methodology that can be used by your in-house resources or custom tailored to a specific situations.

Services	Products
<ul style="list-style-type: none"> • Owner’s Representative • Technology & Power Project Consulting • Interim Management • Power Plant: DG and CHP Project Development and Project Management <p style="margin-left: 40px;">Project Feasibility Planning Engineering coordination Construction management budgeting and scheduling Contract management Risk mitigation Negotiation & Claims resolution Change management Warranty management Sales representation Financing</p>	<ul style="list-style-type: none"> • Proposals & Term Sheets • Client, OEM & EPC Agreements • PPA & Ownership Agreements • Project Execution Plans • Project Pro-forma and Budgets • Studies and Audits • Project Schedules • Contracting Vehicles and Subcontracting • Power Systems Comparisons data sheet • Strategic and Business Plans • Supplier Subcontracts • Project Phase Road Map

The sample project listing below shows some of the power projects that have been managed in the past by the Bayfront Consulting management team. CHP projects are among this list. The selection of the technology type and then the prime mover OEM to support a CHP installation are a few of the many key steps in the process. The modular design offered by some equipment suppliers for CHP plants enables fast-track delivery and this timeline can be as quick as one year. Prefabricated, functionally pre-tested modules guarantee consistent quality and performance and make on-site installation a matter of assembling and connecting the modules. Project Sources and our alliances offer this kind of solution.

Selected sample of reference projects:

- Independent Power Producer 72 MW power plant in Dominican Republic
- 11 MW utility electrification project in Saudi Arabia
- 23 MW Municipal Dual Fuel Distributed Power Plant in Pennsylvania
- Independent Power Producer 112 MW peaking power plant in Colorado
- 7MW Co-op Natural Gas Distributed Power Plant in New Mexico
- 9MW Industrial CHP Natural Gas Power Plant in New Jersey
- Illinois University upgraded 17 MW CHP Facility
- Michigan Airport new CHP facility, 17MW Natural Gas Power Plant
- Independent Power Producer 110 MW Power Barge project in Guatemala
- Industrial 11 MW CHP plant in Maryland
- Independent Power Producer 110 MW in the Philippines
- 48 MW power plant for mining operation in Chile
- 5 MW municipal district heating plant in Finland
- Development of construction and project management department
- Feasibility study for acquisition of electric utility
- Major re-structuring of business unit and re-engineering of organization

One Mid-Atlantic CHP project included an effort to provide energy services for a cup manufacturing company located in Maryland. The CHP system consisted of two 5.6 MW reciprocating natural gas spark ignition engines as prime movers to provide electrical power. The system was also designed to provide waste heat recovered as LP steam to support the cup manufacturing process. During the cooler months the CHP system would be used to provide space heating for one of the company's buildings. Not only did this technology maximize fuel efficiency, but it also decreased production costs and provided for an environmentally friendly investment. The project included a selective catalytic reduction system in the exhaust in order to achieve ultra-low emissions desired by the State regulatory bodies (such as NOx to levels less than 5 ppm).

CHP Products or Services:

X	CHP Project Developer
	Energy Services Provider
	Financial Services
X	Equipment
X	Packaged Gen-Sets / Complete Systems
	Reciprocating Engines (> 1 MW)
	Reciprocating Engines (< 1 MW)
	Microturbines (< 100 kW)
X	Combustion Turbines (> 100 kW)
	Steam Turbines
	Heat Recovery Equipment
	Controls & Electrical Interconnection Equipment
	HVAC

	Other _____
X	Consulting Services
	Energy Audits
X	Energy Management Programs
X	CHP Project Management
	HVAC System Design
X	Construction (Turnkey)
	Operations & Maintenance Services
X	Fuels
	Natural Gas
	Propane
	Oil (#2 or #6)
X	Other <u>biodiesel</u> (<i>identify: e.g., wood, MSW, coal</i>)

Company Information

Bayfront Consulting, LLC is located in Annapolis, Maryland. We are designated as a Small Business in Maryland and with the Federal Government. Bayfront Consulting is run by a seasoned management team with many years of experience in the energy and power plant sector and they have several alliances with other entities including CHP equipment suppliers, prime mover OEMs, engineering and transportation groups, on-site management and others to support most all power and CHP projects. Bayfront Consulting does business under the name ProjectSources and our website is located at www.projectsources.com.