

# COMBUSTION TURBINE TECHNOLOGIES

LISTING OF DIVERSE ENGINEERING & DESIGN EXPERIENCE WITH  
COMBINED-CYCLE, COGENERATION, AND SIMPLE-CYCLE PROJECTS

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# COMBINED-CYCLE AND COGENERATION PROJECTS



## Wildcat Point Generation Facility

<b>Client</b>	Old Dominion Elec. Coop.	ODEC awarded the Wildcat Point Generation Facility engineering, procurement, and construction (EPC) project to White Oak Power Constructors (WOPC), the Joint Venture (JV) of S&L and PCL Industrial Construction Company. S&L has responsibility for all detailed design, engineered equipment procurement, commissioning and joint venture executive management. Major equipment purchased by ODEC and assigned to the EPC JV includes two MHI 501GAC CTs, two Alstom HRSGs, Alstom STG, and SMIT GSUs. The project is on an existing operating site with 4 CTs in Cecil County, Maryland, adjacent to the Pennsylvania state border.
<b>Location</b>	Rising Sun, MD	
<b>Plant Type</b>	CC	
<b>Fuel</b>	Natural gas	
<b>Size</b>	1000 MW	
<b>COD</b>	2017	
<b>CT Supplier</b>	MHI 501GAC (2)	
<b>Configuration</b>	2x1	



## Carty

<b>Client</b>	Abeinsa/Abengoa	Abeinsa is leading EPC efforts to complete project and S&L is providing complete engineering design in support of Abiensa's EPC contract obligations, including BOP and engineered equipment specifications. The major components (MHI 501GAC CT, SRT-50 single-casing reheat STG, and Nooter/Eriksen triple-pressure reheat-fired HRSG) are supplied by Mitsubishi Power Systems Americas, Inc. (MPSA). Other major features in design are auxiliary boiler, SCR and CO <sub>2</sub> control systems, condenser, mechanical-draft cooling tower, electrical and I&C systems, DCS, water supply and treatment system, wastewater system, and fire protection system. Provisions made for additional unit of equal size.
<b>Location</b>	Portland, OR	
<b>Plant Type</b>	CC	
<b>Fuel</b>	Natural gas	
<b>Size</b>	440 MW	
<b>COD</b>	Mid-2016	
<b>CT Supplier</b>	MHI 501GAC	
<b>Configuration</b>	1x1x1	



## Ras Al-Khair CC and SC Power and Desalination Plant

<b>Client</b>	SEPCOIII	EPC Contractor's Engineer scope covers BOP engineering and design; procurement specifications, with purchasing support; detailed vendor drawing reviews; and management support for equipment, material delivery, and construction, as requested. S&L was challenged with confirming and finishing detailed engineering started by others, and integrating equipment purchases, including all mechanical and electrical interconnecting design by others. All engineering accelerated due to multiple contract participant changes.
<b>Location</b>	Saudi Arabia	
<b>Plant Type</b>	CC/SC and desalination	
<b>Fuel</b>	Natural gas	
<b>Size</b>	2400 MW	
<b>COD</b>	CC: 2014 / SC: 2013	
<b>CT Supplier</b>	Siemens SGT6-5000	
<b>Configuration</b>	5 CC blocks, 2x2x1 1 SC block	

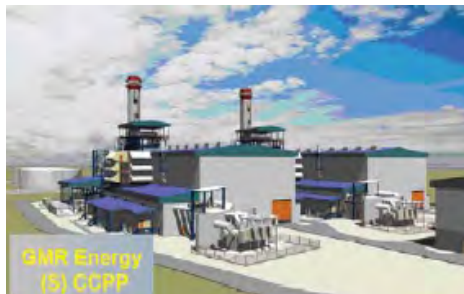
# COMBINED-CYCLE AND COGENERATION PROJECTS



## Qurayyah IPP 1-6

**Client** Samsung C&T  
**Location** Saudi Arabia  
**Plant Type** CC  
**Fuel** Natural gas/diesel oil  
**Size** 4000 MW  
**COD** 2015  
**CT Supplier** SGT6-PAC 5000F  
**Configuration** 6 blocks, 2x2x1

Detailed design of power block and BOP facilities. Preparation of technical specifications to purchase equipment and commodities; system studies and calculations; P&IDs, flow diagrams, schematics, equipment location general arrangements, and 3-D model; equipment, valve, and cable lists; and as-builts.



## GMR (S) Energy

**Client** Samsung C&T  
**Location** Singapore  
**Plant Type** CC  
**Fuel** Gas/diesel 2  
**Size** 2x400  
**COD** 2013  
**CT Supplier** SGT5-4000F  
**Configuration** 2 blocks, 1x1x1

Mechanical BOP engineering, design, and specifications.



## Deer Creek 1

**Client** Basin Electric Power Coop.  
**Location** Brookings County, SD  
**Plant Type** CC  
**Fuel** Gas  
**Size** 300 MW  
**COD** 2012  
**CT Supplier** GE 7FA  
**Configuration** 1x1x1

Preliminary engineering, permitting support, air model and permit work, major equipment and BOP procurement, detailed plant design, and preparation of construction GWC specification and project integrated master schedule. Key milestones: Project award May, 2008; GWC award January, 2010; PSD permits April, 2010, ground-breaking September, 2010; and COD August 1, 2012. Project funding by Rural Utilities Service (RUS), a division of the U.S. Department of Agriculture. At the time, the first CC plant with the CT and ST enclosed indoors. At the station dedication ceremony on August 16, 2012, Basin Electric's project manager stated that the project "was done on time, under budget, and safely."

## COMBINED-CYCLE AND COGENERATION PROJECTS



### Edwardsport IGCC

<b>Client</b>	Duke Energy
<b>Location</b>	Edwardsport, IN
<b>Plant Type</b>	IGCC
<b>Fuel</b>	Gas
<b>Size</b>	630 MW
<b>COD</b>	2013
<b>CT Supplier</b>	GE 7FB
<b>Configuration</b>	2x2x1

BOP engineering and design: raw water collection, treatment, and storage systems; grey water disposal system; coal handling system; potable water supply; auxiliary power supply and distribution system; various underground piping and electrical infrastructure; fire protection systems; auxiliary fuel delivery; storm water drainage and collection, oil water collection and separation systems; DCS interface and uninterruptible power supply system.



### Qurayah 1-15 (SC) and 1-5 (CC)

<b>Client</b>	Arabian Bemco
<b>Location</b>	Saudi Arabia
<b>Plant Type</b>	SC and CC
<b>Fuel</b>	Gas and oil
<b>Size</b>	1,900 MW total
<b>COD</b>	2007-2012
<b>CT Supplier</b>	GE7FA (Units 1-15)
<b>Configuration</b>	(5) 3x3x1

Phase 1: Detailed design of power block and BOP SC facilities. Preparation of: ERPs to purchase the necessary plant equipment; BOQs to purchase bulk commodity materials; system studies and calculations; P&IDs, flow diagrams, and schematic diagrams; control logic and system descriptions; equipment location and GA drawings; equipment, valve, and cable lists; construction drawings and installation details, civil and structural works; steam and BOP piping; wiring and cable design; as-built drawings; and O&M manuals.

Phase 2: 5 CC units with each block of 3 GTs converted to 3x1 CC arrangement, increasing nominal power output to 3040-3210 MW.



### Dresden

<b>Client</b>	AEP
<b>Location</b>	Muskingum, OH
<b>Plant Type</b>	CC
<b>Fuel</b>	Gas and oil
<b>Size</b>	500 MW
<b>COD</b>	2012
<b>CT Supplier</b>	GE 7FA
<b>Configuration</b>	2x2x1

Complete engineering and design, including preparation of equipment specifications, procurement services, and significant input into the project integrated schedule.



## COMBINED-CYCLE AND COGENERATION PROJECTS



### Surgutskaya 1,2

<b>Client</b>	Gama Power Systems
<b>Location</b>	Surgut City, Russia
<b>Plant Type</b>	CC
<b>Fuel</b>	Natural gas
<b>Size</b>	800 MW total
<b>COD</b>	2011
<b>CT Supplier</b>	GE 109FA
<b>Configuration</b>	(2) 1x1x1

Detailed engineering and design services for EPC project, including preparation of all equipment specifications, procurement services, and the development of the integrated project engineering / construction / procurement schedule.



### Shaturskaya

<b>Client</b>	Gama Power Systems
<b>Location</b>	Shatura, Russia
<b>Plant Type</b>	CC
<b>Fuel</b>	Natural gas
<b>Size</b>	400 MW
<b>COD</b>	2010
<b>CT Supplier</b>	GE 109FA
<b>Configuration</b>	1x1x1

Detailed engineering and design services for EPC project, including preparation of all equipment specifications, procurement services, and the development of the integrated project engineering / construction / procurement schedule.



### J. L. Stall

<b>Client</b>	AEP
<b>Location</b>	Shreveport, LA
<b>Plant Type</b>	CC
<b>Fuel</b>	Gas
<b>Size</b>	540 MW
<b>COD</b>	2010
<b>CT Supplier</b>	SWPC 501FD2
<b>Configuration</b>	2x2x1

Detailed design and engineering services, including preparation of specifications and drawings for the EPC construction, erection, commissioning and startup; procurement and expediting of process equipment; and field engineering services on behalf of S&L and TIC JV. Project awarded the Associated Builders and Contractors (ABC) South Texas Chapter's top honor in mega-project category in its annual Excellence in Construction competition. Award based on overcoming obstacles in project completion, innovative quality control and scheduling, and site safety record and safety programs.

# COMBINED-CYCLE AND COGENERATION PROJECTS



## Hillabee

<b>Client</b>	Constellation Energy (Exelon)
<b>Location</b>	Alexander City, AL
<b>Plant Type</b>	CC
<b>Fuel</b>	Natural gas
<b>Size</b>	700 MW
<b>COD</b>	2009
<b>CT Supplier</b>	SWPC 501G
<b>Configuration</b>	2x2x1

Detailed design, permitting support, site development, civil design, design criteria, piping and instrumentation diagrams, piping installation drawings, power and control cabling, steel and foundations, procurement support, interface with installation contractor, and construction / startup support. Construction was postponed in 2003. In 2008, Constellation, the new owner, authorized S&L to restart the engineering effort, with commercial operation achieved in 2009.



## Riverside

<b>Client</b>	Xcel Energy
<b>Location</b>	Minneapolis, Minnesota
<b>Plant Type</b>	CC repowering
<b>Fuel</b>	Gas
<b>Size</b>	480 MW
<b>COD</b>	2009
<b>CT Supplier</b>	GE 7FA
<b>Configuration</b>	2x2x1

Detailed engineering, design, and procurement services for repowering of two coal-fired boilers using new gas-fired combined-cycle Units 9 and 10.



## Hopkins Repowering

<b>Client</b>	City of Tallahassee
<b>Location</b>	Tallahassee, FL
<b>Plant Type</b>	CC
<b>Fuel</b>	Gas and oil
<b>Size</b>	300 MW
<b>COD</b>	2008
<b>CT Supplier</b>	GE 7FA
<b>Configuration</b>	1x1x1

Initial studies of repowering from oil to natural gas to reduce fuel costs, improve efficiency with reduced heat rate, and reduce emissions. The City then requested conversion to start 2 years earlier than planned and on a fast-track basis. Study determined Unit 2 ST could accommodate installation of 2 F-class CTs and triple-pressure HRSGs, allowing conversion to be implemented in 2 phases to match load demand. S&L's cope for Phase 1 (1x1x1 CC) consisted of preliminary engineering, BOP procurement/ detailed design, construction support/commissioning support. Phase 2 conversion to a 2x1 arrangement delayed due to installation of 11 (11x9-MW) reciprocating engines to replace the retired Hopkins Unit 1.

- 2011 - "Top Gas Plant," *Power Magazine*
- 2009 - Pacesetter Plant Award," *Combined Cycle Journal*

## COMBINED-CYCLE AND COGENERATION PROJECTS



### Kaeng Khoi Block II

<b>Client</b>	Mitsui & Co., Ltd.
<b>Location</b>	Lopburi, Thailand
<b>Plant Type</b>	CC
<b>Fuel</b>	Gas and oil
<b>Size</b>	735 MW
<b>COD</b>	2008
<b>CT Supplier</b>	Alstom GT 26B
<b>Configuration</b>	2x2x1

Conceptual engineering, preparation of heat balances, cost estimates, layout system description, and review of EPC bids: GE 9FA, MHI 701F, and Alstom GT 26B considered.



### Santan 5,6

<b>Client</b>	Salt River Project
<b>Location</b>	Gilbert, AZ
<b>Plant Type</b>	CC
<b>Fuel</b>	Gas
<b>Size</b>	600 MW (U5)/225 MW (U6)
<b>COD</b>	2005
<b>CT Supplier</b>	GE 7FA
<b>Configuration</b>	2x2x1 (U5)/1x1x1 (U6)

Complete integration of engineering, design, construction management, and startup support for two new gas combined-cycle units at an existing facility. Scope included conceptual design; detailed engineering; and design of all balance-of-plant systems; procurement support with the development of specifications and the technical evaluation of bids received; construction support (onsite and from the Chicago office); and startup support. Project earned the Industry's 2006 Gas-fired Project of the Year Award.



### Bayside 1,2

<b>Client</b>	Tampa Electric
<b>Location</b>	Tampa, FL
<b>Plant Type</b>	CC repowering
<b>Fuel</b>	Natural gas
<b>Size</b>	1,750 MW
<b>COD</b>	2004
<b>CT Supplier</b>	GE 7FA
<b>Configuration</b>	3x3x1 (U1)/4x4x1 (U2)

The repowered plant, Bayside Units 1 and 2, involves repowering Gannon Units 5 and 6 with a total of 7 new GE 7FA combustion turbines and 7 HRSGs. In the repowering mode, Units 5 and 6 boilers were taken out of service.

# COMBINED-CYCLE AND COGENERATION PROJECTS



## Columbia Energy Center

**Client** Calpine Corporation  
**Location** Columbia, SC  
**Plant Type** CC cogeneration  
**Fuel** Gas  
**Size** 500 MW  
**COD** 2004  
**CT Supplier** GE 7FA  
**Configuration** 2x2x1

Detailed design and technical field services, including selective catalytic reduction (SCR). The steam host is Eastman Chemical.



## Bighorn

**Client** Reliant Energy (NRG Energy)  
**Location** Las Vegas, NV  
**Plant Type** CC  
**Fuel** Natural gas  
**Size** 550 MW  
**COD** 2004  
**CT Supplier** SWPC 501FD/GE LM6000  
**Configuration** 2x2x1

Complete EPC engineering, design, and procurement, including two Siemens Westinghouse 501FD combustion turbine generators; two triple-pressure HRSGs and a reheat condensing steam turbine.



## Fairless Energy Works

**Client** Dominion Energy  
**Location** Philadelphia, PA  
**Plant Type** CC  
**Fuel** Gas and oil  
**Size** 1,100 MW  
**COD** 2003  
**CT Supplier** GE 7FA  
**Configuration** (2)2x2x1

Detailed engineering and design of facility consisting of two 550-MW power islands located at a brownfield US Steel site.



## COMBINED-CYCLE AND COGENERATION PROJECTS



### Noblesville

**Client** Cinergy (Duke Energy)  
**Location** Noblesville, IN  
**Plant Type** CC  
**Fuel** Gas  
**Size** 300 MW  
**COD** 2003  
**CT Supplier** GE 6FA  
**Configuration** 3x3x2

Feasibility study of repowering with various combinations of CTs and HRSGs, and detailed engineering and design for repowering based on GE CT and Foster Wheeler HRSG technologies.



### Possum Point

**Client** Dominion Energy  
**Location** Virginia/Washington D.C area  
**Plant Type** CC  
**Fuel** Gas and oil  
**Size** 500 MW  
**COD** 2003  
**CT Supplier** GE 7FA  
**Configuration** 2x2x1

Complete design and engineering, including preparation of equipment specifications, procurement services, and significant input into the project integrated schedule.



### Baglan Bay

**Client** GE International  
**Location** Baglan, Wales, UK  
**Plant Type** CC cogeneration  
**Fuel** Gas  
**Size** 520 MW  
**COD** 2002  
**CT Supplier** GE 109H/LM2500  
**Configuration** 1x1x1/1x1

Design and engineering for project recognized as the first commercial application of the Frame "H" combustion turbine technology in the world.

# COMBINED-CYCLE AND COGENERATION PROJECTS



## Corpus Christi

**Client** Calpine Corporation  
**Location** Corpus Christi, TX  
**Plant Type** CC  
**Fuel** Gas  
**Size** 500 MW  
**COD** 2002  
**CT Supplier** GE 7FA  
**Configuration** 2x2x1

EPC contract awarded to JV between S&L and Zachry Construction Corporation. Project includes mechanical-draft cooling tower and is located on the CITGO Refinery property in Corpus Christi, Texas.



## Equistar

**Client** Reliant (NRG Energy)  
**Location** Channelview, TX  
**Plant Type** CC cogeneration  
**Fuel** Gas  
**Size** 800 MW  
**COD** 2002  
**CT Supplier** Siemens 501F  
**Configuration** 4x4x1

EPC Joint Venture with Zachry Construction. Project management, engineering and design, procurement of engineered equipment, startup, and commissioning. Facility included four natural circulation duct-fired HRSGs, and one automatic extraction condensing steam turbine generator with a conventional condenser.



## Magic Valley

**Client** Calpine Corporation  
**Location** Edinburg, TX  
**Plant Type** CC  
**Fuel** Natural gas  
**Size** 700 MW  
**COD** 2001  
**CT Supplier** SWPC 501G  
**Configuration** 2x2x1

Detailed design of the first application of this 'G Frame' technology in the United States. Included permitting support, site development, civil design, design criteria, substation design, P&IDs, piping installation drawings, power control cabling, steel and foundations, procurement support, interface with installation contractor, and startup support.

## COMBINED-CYCLE AND COGENERATION PROJECTS



### Pine Bluff

<b>Client</b>	Calpine Corporation
<b>Location</b>	Pine Bluff, AR
<b>Plant Type</b>	CC cogeneration
<b>Fuel</b>	Gas and oil
<b>Size</b>	220 MW
<b>COD</b>	2001
<b>CT Supplier</b>	GE 7FA
<b>Configuration</b>	1x1x1

EPC joint venture with Zachry Construction. Full EPC services, including detailed design for construction of 1x1x1 using GE 7FA technology and 50-MW steam turbine. Independent power producer (IPP) plant provides electricity to a utility and electricity and process steam to adjacent paper mill.



### John S. Rainey

<b>Client</b>	GE Power
<b>Location</b>	Iva, SC
<b>Plant Type</b>	CC
<b>Fuel</b>	Gas
<b>Size</b>	500 MW
<b>COD</b>	2001
<b>CT Supplier</b>	GE 7FA
<b>Configuration</b>	2x2x1

Initial project award for design of power island. Configuration based on GE 7FA dual-fuel CTs. Scope expanded to include two additional 7FA CTs. New units operating in simple-cycle but are convertible for future combined-cycle operation. Simple-cycle units bring total capacity to approximately 800 MW.

## SIMPLE-CYCLE PROJECTS



### Charles D. Lamb Energy Center

**Client** OMPA  
**Location** Kay County, OK  
**Plant Type** SC  
**Fuel** Natural gas  
**Size** 103 MW  
**COD** 2015  
**CT Supplier** Siemens SGT6 2000E

Scope included detailed BOP design (civil, structural foundations, mechanical piping, electrical auxiliary power system, instrumentation and controls), preparation of technical equipment procurement specifications, development of a GWC installation specification, bid evaluations and specification conformance. S&L scope also included site construction management support. The site was chosen due to its access to 345-kV electric transmission line and availability of a natural gas pipeline, as well as for its size, which will enable OMPA to expand to a 2x2x1 combined cycle configuration in the future.



### Campbell 1

**Client** Hawaiian Electric Co., Inc.  
**Location** Barbers Point, HI  
**Plant Type** SC  
**Fuel** No. 2 Fuel Oil and Biodiesel  
**Size** 125 MW  
**COD** 2009  
**CT Supplier** Siemens SGT6-3000E

Conceptual, design, permitting support, and detailed design for the simple-cycle addition. Air permits received in June, 2007, after which detailed design commenced. Providing construction management, startup, and testing coordination for power block and design for plant switchyard along with new transmission line to offsite substation.



### Hopkins Peakers HC3 and HC4

**Client** City of Tallahassee  
**Location** Tallahassee, FL  
**Plant Type** SC  
**Fuel** Natural gas and oil  
**Size** 96 MW  
**COD** 2005  
**CT Supplier** GE LM6000

Preliminary engineering, detailed design, and construction support for the installation of two GE LM6000 machines, including black start diesel generator. S&L's scope also included switchyard upgrade. This peak load generating facility consists of two GE LM6000 CTs that include SCRs and dry inlet chillers, a first in the U.S. Major systems (piping, conduits, etc.) were located underground in trenches.



# SIMPLE-CYCLE PROJECTS



## Elgin 1-4

**Client** Ameren Illinois  
**Location** Elgin, IL  
**Plant Type** SC  
**Fuel** Gas  
**Size** 468 MW total  
**COD** 2003  
**CT Supplier** SWPC 501D5A

Design, engineering, and permitting support for 4 x 117-MW gas-fired peaking plant, located on 33-acre industrial park.



## 3<sup>rd</sup> Avenue and 23<sup>rd</sup> Street (In-City Project)

**Client** NYPA  
**Location** Brooklyn, New York, NY  
**Plant Type** SC  
**Fuel** Gas  
**Size** 79 MW  
**COD** 2002  
**CT Supplier** GE LM6000

Detailed design for two peaker units as part of larger project known as the In-City Project, an initiative to develop power within New York City.



## Brentwood (In-City Project)

**Client** NYPA  
**Location** Islip, Long Island, NY  
**Plant Type** SC  
**Fuel** Gas  
**Size** 47 MW  
**COD** 2002  
**CT Supplier** GE LM6000

Detailed design for one peaker unit as part of larger project known as the In-City Project, an initiative to develop power within New York City.

# SIMPLE-CYCLE PROJECTS



## Harlem River Yards (In-City Project)

<b>Client</b>	NYPA	Detailed design for two peaker units as part of larger project known as the In-City Project, an initiative to develop power within New York City.
<b>Location</b>	Bronx, New York, NY	
<b>Plant Type</b>	SC	
<b>Fuel</b>	Gas	
<b>Size</b>	79 MW	
<b>COD</b>	2002	
<b>CT Supplier</b>	GE LM6000	



## Hell Gate (In-City Project)

<b>Client</b>	NYPA	Detailed design for two peaker units as part of larger project known as the In-City Project, an initiative to develop power within New York City.
<b>Location</b>	Bronx, New York, NY	
<b>Plant Type</b>	SC	
<b>Fuel</b>	Gas	
<b>Size</b>	79 MW	
<b>COD</b>	2002	
<b>CT Supplier</b>	GE LM6000	



## North 1<sup>st</sup> and Grand Street (In-City Project)

<b>Client</b>	NYPA	Detailed design for one peaker unit as part of larger project known as the In-City Project, an initiative to develop power within New York City.
<b>Location</b>	Brooklyn, New York, NY	
<b>Plant Type</b>	SC	
<b>Fuel</b>	Gas	
<b>Size</b>	47 MW	
<b>COD</b>	2002	
<b>CT Supplier</b>	GE LM6000	

# SIMPLE-CYCLE PROJECTS



## Pouch Terminal (In-City Project)

<b>Client</b>	NYPA	Detailed design for one peaker unit as part of larger project known as the In-City Project, an initiative to develop power within New York City.
<b>Location</b>	Staten Island, New York, NY	
<b>Plant Type</b>	SC	
<b>Fuel</b>	Gas	
<b>Size</b>	47 MW	
<b>COD</b>	2002	
<b>CT Supplier</b>	GE LM6000	



## Vernon Boulevard (In-City Project)

<b>Client</b>	NYPA	Detailed design for two peaker units as part of larger project known as the In-City Project, an initiative to develop power within New York City.
<b>Location</b>	Queens, New York, NY	
<b>Plant Type</b>	SC	
<b>Fuel</b>	Gas	
<b>Size</b>	79 MW	
<b>COD</b>	2002	
<b>CT Supplier</b>	GE LM6000	



## Southeast Chicago Energy Center

<b>Client</b>	Exelon Corporation	Detailed engineering and construction management and power delivery services. Includes 8 GE 6B machines at a single site. Follow-on work associated with plant outage included addition of CEMS, DCS logic changes to the GE starting motors, and other smaller work packages. Reviewed client's operating alarm response procedures.
<b>Location</b>	Calumet, IL	
<b>Plant Type</b>	SC	
<b>Fuel</b>	Gas	
<b>Size</b>	450 MW	
<b>COD</b>	2002	
<b>CT Supplier</b>	GE 6B (8)	

## SIMPLE-CYCLE PROJECTS



### Aurora

**Client** Reliant (NRG Energy)  
**Location** Aurora, IL  
**Plant Type** SC  
**Fuel** Gas  
**Size** 890 MW  
**COD** 2001  
**CT Supplier** GE LM6000 (6)/GE 7FA (4)

EPC JV with S&L, Graycor, and Sachs Electric (GSSL). S&L's specific scope included EPC project management, engineering and design, procurement of engineered equipment, startup, and commissioning activities.



### Elk Mound 1,2

**Client** Dairyland Power Coop.  
**Location** Elk Mound, WI  
**Plant Type** SC  
**Fuel** Gas and oil  
**Size** 74 MW total  
**COD** 2001  
**CT Supplier** GE 6B

Detailed design for installation.



### Handsome Lake

**Client** Constellation Energy (Exelon)  
**Location** Kennerdell, PA  
**Plant Type** SC  
**Fuel** Natural gas  
**Size** 268 MW  
**COD** 2001  
**CT Supplier** PW Aeroderivative FT8  
 TwinPac (5)

Detailed design for installation.



# SIMPLE-CYCLE PROJECTS



## University Park

<b>Client</b>	Constellation Energy (Exelon)	Detailed design for installation.
<b>Location</b>	Chicago, IL	
<b>Plant Type</b>	SC	
<b>Fuel</b>	Natural gas	
<b>Size</b>	300 MW	
<b>COD</b>	2001	
<b>CT Supplier</b>	PW Aero derivative FT8 TwinPac (6)	