



## Engineering Studies/Owner's Engineer Experience

### **Rocky Mountain Ethanol**

Hardin, Montana

Coal-fueled steam supply

Plant arrangement study, preliminary engineering and cost estimate

### **Inland Energy**

Victorville, California

Preliminary engineering and permitting support for hybrid (thermal solar powered augmentation of combined cycle) power station

### **NuCoastal**

Preliminary engineering, plant arrangement study, permitting support and cost estimate for fluidized bed combustion repowering of an existing steam turbine (nominal 260 MW)

### **Confidential Client**

Chicago, Illinois

Engineering services for baghouse addition to two coal-fired boilers to meet MACT emission limits for particulate and HCl  
Design services to replace existing steam loop at boiler house

### **Massachusetts Municipal Wholesale Electric Cooperative**

Feasibility studies for a 260 MW combined cycle facility  
Layouts, cost analysis, load studies, fatal flaw analysis

### **Progress Energy**

Raleigh, North Carolina

Owner assistance with various power facilities studies, including cycle configuration, DCS equipment evaluation and water treatment alternatives.

### **Kansas City Power and Light**

Fossil plant modifications and retrofit projects under a master services agreement  
Recent example: Mercury CEMS retrofit at Hawthorn, Unit 5

### **Pittsburgh Corning**

Baghouse retrofit on a glass melter, including tempering air system, ductwork, fans and support structures



## Engineering Studies/Owner's Engineer Experience (cont.)

### **City of Industry, California**

45 MW simple cycle power plant  
Layout, site use issues

### **Mammoth-Pacific**

Casa Diablo 4  
15 MW geothermal power plant  
Mammoth Lakes, California  
Conceptual engineering, technical permit support,  
estimate

### **City of Glendale, California**

Various MW simple cycle/repowering concepts  
Cost estimate, performance of the peaker versus  
repowering options, site layout, preliminary  
engineering

### **City of Pasadena, California**

90 MW simple cycle and other power projects  
LM6000  
Layout and rendering  
Plan update

### **Pinnacle West Energy**

West Phoenix Power Plant  
500 MW combined cycle power plant  
Phoenix, Arizona  
Due diligence for partner of impact on existing plant

### **City of Burbank, California**

46 MW simple cycle and other power projects  
LM6000  
Owner's engineer preliminary engineering, cost  
estimate, environmental support

### **Edison Mission Energy and Area Energy**

Midway Sunset  
500 MW combined cycle power plant  
F-class turbine/generators  
Draft EPC RFP

### **CalEnergy**

Salton Sea Unit 6  
175 MW geothermal power plant  
Calipatria, California  
Conceptual engineering, technical CEC permit sup-  
port, estimate



## Engineering Studies/Owner's Engineer Experience (cont.)

### **ANP**

Repowering study  
Nominal 225 MW plant  
Circulating fluid bed boiler  
Southern Texas  
Prepared study to repower existing turbine with CFB

### **Utilicorp**

Pleasant Hill Power Plant  
500 MW combined cycle power plant  
2 x "F" gas turbines  
Pleasant Hill, Missouri  
Develop RFP

### **Calpine**

Calpine South Point  
500 MW combined cycle power plant  
2x "F" gas turbines  
Needles, California  
Develop RFP and gas pipeline layout

### **City of Colton, California**

300 MW combined cycle power plant  
LM 6000s  
Cost estimate, cycle analysis water consumption,  
site feasibility, layout, provided final report

### **NRG**

Saguaro Power  
120 MW combined cycle and cogeneration  
LM6000s  
Henderson, Nevada  
Cost estimate, cycle analysis, water consumption,  
site feasibility, layout, EPC estimate and  
schedule, air permit support

### **Covanta**

Three Mountain Power Project  
500 MW combined cycle power project  
GE 7 FA or S-W 501F  
Burney, California  
Technical support for the CEC application for  
certification, prepared technical specifications  
for major equipment

### **PG&E National Energy Group**

Harquahala Generating Project  
1060 MW combined cycle power project  
Siemens Westinghouse 501G  
Harquahala Valley  
Maricopa County, Arizona  
Technical support for environmental permitting,  
conceptual design

### **City of Industry, California**

750 MW combined cycle power plant  
Layout, site use issues



## Engineering Studies/Owner's Engineer Experience (cont.)

### **GWF**

Hanford Energy Park  
100 MW combined cycle power plant  
GE PG6101 FA  
Hanford, California  
Preliminary design

### **North American Power Group**

Power plant facilities technical review  
FBC, steam turbine – biomass fuel  
San Joaquin Valley, California  
Owner's engineer

### **SCPPA**

Magnolia Power Plant  
240 MW combined cycle power plant  
GE 7FA  
Burbank, California  
Owner's engineer, development support, technical permit support

### **Polsky Energy Corporation**

170 MW simple cycle power plant  
GE 7FA combustion turbine generator  
Fuel – Natural Gas  
DePere, Wisconsin

### **MidAtlantic Energy**

Rotem I Power Plant  
150 MW solid fuel power plant  
584,325 pph circulating fluidized bed combustion  
and 150 MW condensing STG  
Fuel – Oil shale  
EPC Contractor – Lentjes Energietechnik  
Dimona, Israel

### **Vermont Energy Park Holdings**

270 MW combined cycle merchant plants  
"F" class combustion turbine generators  
Fuel – Natural Gas  
Bennington & Rutland, Vermont

### **Polsky Energy Corporation**

135 MW simple cycle power plant  
Androscoggin, Maine  
Owner's engineer

### **El Rio Repowering**

180 MW combined cycle  
Barranquilla, Colombia  
Preliminary design/due diligence review



## Engineering Studies/Owner's Engineer Experience (cont.)

### **CSN (National Steel Company of Brazil)**

1450 MW hydro-electric facility  
Uruguay River, Brazil  
Owner's Engineer

### **Canadian Imperial Bank of Commerce**

Biomass-fired CFB technology projects  
California  
Independent engineer review

### **CSN (National Steel Company of Brazil)**

230 MW cogeneration  
Blast furnace and coke oven gases  
Volta Redonda, Brazil  
Owner's Engineer

### **Interstate Power Company of Dubuque, Iowa**

Electric utility  
Dubuque, Iowa  
Condition assessment

### **Repowering**

274 MW combined cycle  
Mendoza, Argentina  
Due diligence review

### **Container Corp.**

LM5000 simple cycle power project  
Los Angeles, California  
Scope: Study to reduce NOx emissions to meet SCAQMD regulations of 15 ppmvd, prepared emissions control plan

### **General Services Administration**

Central heating plant EIS  
Washington, D.C.  
Independent engineer review

### **Kansas City Power & Light**

Power station equipment demolition/sale  
Electric utility  
Kansas City, Missouri  
Condition assessment



## Engineering Studies/Owner's Engineer Experience (cont.)

### **Polsky Energy Corporation**

Brooklyn Energy Centre  
23.8 MW wood-waste fueled cogeneration facility  
FBC/steam turbine  
Nova Scotia, Canada  
Owner's engineer

### **American Energy Corporation (Intercontinental Energy Corporation)**

300 MW combined cycle  
Bellingham, Massachusetts  
Independent engineer review

### **HEARD Energy Corporation**

Coal fired power plants  
Republic of Indonesia  
Owner's engineer

### **Heller Financial (Constellation)**

110 MW combined cycle  
Freehold, New Jersey  
Independent engineer review

### **Orlando CoGen Limited, L.P. Air Products/Sumitomo Bank Ltd.**

120 MW combined cycle  
Independent engineer review

### **Sunnyside Cogeneration Associates (Env. Power)**

50 MW waste coal CFB project  
Sunnyside, Utah  
Owner's engineering services

### **General Services Administration**

District heating plant air quality improvement  
Washington, D.C.  
Owner's engineering services

### **Panda Energy Corporation**

150 MW coal fired power plant  
Luperon, Dominican Republic  
Owner's engineering services



## Engineering Studies/Owner's Engineer Experience (cont.)

### **Panda Energy Corporation**

175 MW combined cycle power plant  
Roanoke Rapids, North Carolina  
Owner's engineering services

### **KLT Power**

300 MW combined cycle  
Kansas City, Missouri  
Due diligence review

### **American Energy Corporation (Intercontinental Energy Corporation)**

300 MW combined cycle  
Sayreville, New Jersey  
Independent engineer review

### **Kamine/Besicorp Development Corporation**

LM6000 combined cycle power plant (55 MW)  
Allegheny County, New York  
Scope: Owner's engineer during design and  
construction.

### **National Westminster Bank PLC (Empire)**

10 MW simple cycle combustion turbine  
McDill AFB, Florida  
Independent engineering review

### **Independence Power & Light**

40 MW Peaking Plant  
Independence, Missouri  
Plant improvements studies/design

### **Allied-Signal Aerospace**

20 MW combined cycle  
Kansas City, Missouri  
Engineering studies

### **Heller Financial (Arroyo Energy)**

50 MW combined cycle  
Southern California  
Independent engineering review



## Engineering Studies/Owner's Engineer Experience (cont.)

### **U.S. Bankruptcy Court**

48 MW combined cycle

1 x 1 GE 6B

Canton, New York

Examiner

### **Nat West USA**

23 MW biomass fueled cogeneration project

Engineering consultation during receivership  
and resale

### **Canadian Imperial Bank of Commerce**

**BOT Financial Resources, Inc.**

**Westpac Banking Corporation**

79 MW gas-fired combined cycle project

Independent engineer for project finance

### **Nat West USA**

7.5 MW biomass-fired mulithearth small  
power project

Engineering consultation during foreclosure

### **US WEST Financial Services, Inc.**

96 MW coal-fired CFB project

Independent engineering for equity investor

### **CIGNA Investments, Inc.**

24 MW biomass-fired CFB boiler project

Engineering review for financing

### **Heller Financial, Inc.**

72.5 MW coal-fired CFB cogeneration project

Independent engineering for subordinated  
debt financing

### **Prudential Power Funding Associates**

8 MW wood-fired stoker project

Engineering review for refinancing



## Engineering Studies/Owner's Engineer Experience (cont.)

### **Dilworth, Paxon, Kalish and Kauffman**

80 MW culm-fired CFB project

Litigation support on behalf of the Bank of  
New England