Waterbury Generation LLC—
Waterbury, Connecticut, USA

Waterbury Generation LLC Plant, Suez GDF

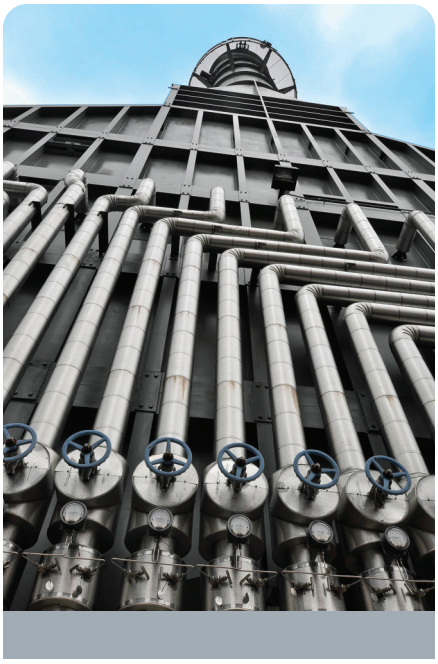
Project Description

The Waterbury Generation LLC was constructed in 2009 in order to serve the peaking market in the Northeastern United States. IST was contracted to supply one Emissions Control System (ECS) for an LMS100 combustion turbine that includes Selective Catalytic Reduction (SCR) equipment for NOx reduction and CO Catalyst for CO VOC and PMIO reduction.

Waterbury Generation LLC is a 100 MW peaking plant, equipped with an ECS designed to adhere to emissions guidelines while maintaining gas turbine operational flexibility.

The IST ECS design was selected based on size, constructability and, of course, the ability to meet the required emissions levels. The vertical gas path design reduces equipment footprint and allows for flexible ducting configurations. IST was able to meet all constraints and criteria of the Waterbury site including compact footprint, compressed project schedule and low emission limits.

The ease and flexibility of IST's proven Once Through Steam Generator (OTSG) design has been translated into the ECS design. A system is typically supplied with only 6 modules that assemble quickly and conveniently, greatly reducing installation time, costs and project risk.



ECS Common Benefits

Target Market

Aeroderivative gas turbines from 25MW to 100MW

Constructability

Constructability of the ECS modular design allows for easy installation. Limited to only 6 modules with an integral stack, the modules conveniently and easily stack on top of each other reducing installation time, field costs and project risk.

Flexibility of Design

The vertical gas path through the ECS allows for a reduced footprint by as much as 1/3 when compared to traditional units and flexible configuration that reduces overall real estate demands. Ducting can be arranged specifically to meet each site's requirements.

Quality

IST has experience, resources and an industry reputation for reliability and quality. ECS technology features the latest, top quality components, which meet the emissions needs of all jurisdictions.

CONTRACT SUMMARY

Gas Turbine	Turbine Output (MW)	Fuel	NOx In (ppm)	NOx Out (ppm)	CO In (ppm)	CO Out (ppm)	Ammonia Slip (ppm)	Ammonia Source
LMS100	100	NG/#2 Oil	25	2.5	69-113	6	5	Aqueous