



16 MWe – NATURAL GAS FUEL TRI-GENERATION POWER PLANT Foxwoods Resort Casino

OWNER

Mashantucket Pequot Tribal Nation

PROJECT ENGINEERING

Syska Hennessey Engineering

CONSTRUCTION MANAGEMENT

Frank Zaino

PRODUCT

**Two (2) Taurus™ 70 Gas Turbine Generator
Sets With Heat Recovery Steam Generators**

CUSTOMER VALUE

**Energy Efficiency, Energy Independence,
Reduced Carbon Footprint**

Sustainability and energy independence matter to the Mashantucket Pequot Tribal Nation in eastern Connecticut.

Supporting those aims: a 16 MWe power plant that began operations in June 2010 at the tribe's Foxwoods Resort Casino. The \$35.7 million facility supplies nearly 60 percent of the electricity used on the tribal reservation — thanks to two (2) Taurus™ 70 natural-gas-fueled turbine generators.

Steam produced from the turbine exhaust heats the casino and passes through absorption chillers to air-condition it in summer. The plant has an overall 82.5 percent efficiency rating.

Solar® Turbines
A Caterpillar Company

16 MWe Tri-Generation Power Plant



PLANT DATA

Two (2) 8 MWe Taurus™ 70 Gas Turbine Generator Sets

Two (2) Heat Recovery Steam Generators

Two (2) Gas Compressors

**GREATER ENERGY
SELF-SUFFICIENCY**

LOWER ENERGY COSTS

REDUCED EMISSIONS

**REDUCED DEMAND ON LOCAL
POWER GRID**

**LOCAL JOBS AND
ECONOMIC GROWTH**



OUR PRODUCTS AND SERVICES

Gas Turbine Packages and Auxiliary Equipment

Full-service Operation and Maintenance

Emissions Reduction With Monitoring and Control System

The plant showcases the tribe's goal to reduce the casino's carbon footprint and operate greener enterprises.

Tribal officials note that the plant produces significantly lower emissions than electricity generated by central coal-fired power plants. Its high efficiency means enough energy savings to pay back the entire initial investment in approximately four years.

"This gives us a tremendous ability to control expenses," says Bob Birmingham, Project Coordinator and Foxwoods Executive Director of Planning and Property Management. The lower operating costs in turn will improve Foxwoods' competitive position against other casinos in the area.

Northeast Utilities, Connecticut's largest electricity provider, worked closely with the tribe, which received a \$6 million state grant for the project. Construction of the facility provided about 500 jobs.

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