



# COMBINED HEAT AND POWER HOSPITAL

## PENN STATE HEALTH MILTON S. HERSHEY MEDICAL CENTER

### OWNER

**Pennsylvania State University**

### LOCATION

**Hershey, Pennsylvania, USA**

### PRODUCT

**Taurus™ 70 (7.5 MWE) Gas Turbine**

### CUSTOMER VALUE

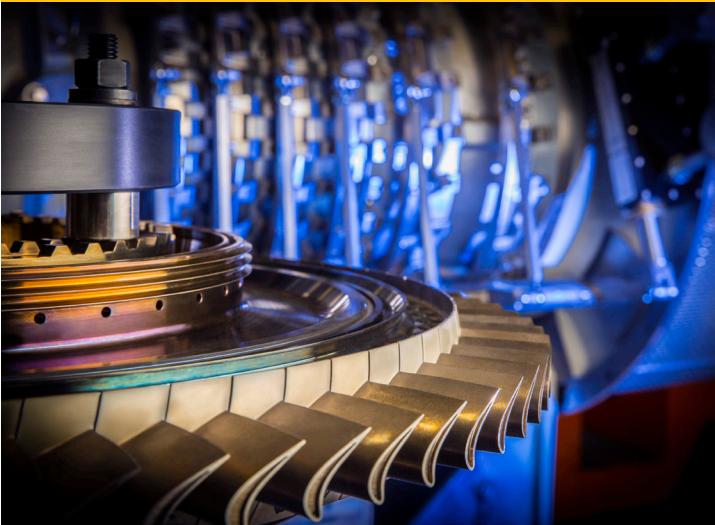
**Reliability, Cost Savings, Greenhouse Gas Reduction**

The Penn State Health Milton S. Hershey Medical Center is a leading teaching and research hospital located in Hershey, Pennsylvania. The combined adult/pediatric Level 1 Trauma Center has 548 beds and sees more than 27,000 patients in the emergency room each year. When deciding which power system to purchase, the Hershey Medical Center team chose a combined heat and power (CHP) system powered by a Taurus 70 gas turbine package from Solar Turbines. Solar's robust reputation and experience providing CHP systems to other hospitals was a catalyst for their decision. After the installation, Hershey Medical Center has a projected \$2.5M savings in annual operating costs, resulting in a payback of less than eight years. In addition, the facility anticipates an annual reduction of 44,000 tons of greenhouse gas emissions.

# Solar® Turbines

*A Caterpillar Company*

## Combined Heat and Power - Hospital



### PLANT DATA

One Taurus 70 (7.5 MWe) Gas Turbine

Natural Gas Fuel

Steam: Up to 80,000 Pounds of Steam Per Hour

which is the equivalent of removing approximately 7200 cars from the road. As a Solar Turbines customer, Hershey Medical Center relies on uninterrupted power for better patient care and comfort that is both cost effective and efficient.

The CHP system meets 60% of the medical center's power needs and provides an onsite generation resource to supply power in the event of a disaster or electric grid failure. Along with a heat recovery boiler, the recovered steam meets 85-90% of all thermal needs for the entire facility for sterilization, cooking, HVAC, humidification and laundry services.

Along with the Taurus 70 generator set, Hershey Medical Center elected to purchase an extended service agreement, a comprehensive service agreement to ensure high reliability, availability and optimum performance for their turbomachinery. The extended service agreement uses InSight Platform™ to determine required maintenance activities



### OUR PRODUCTS & SERVICES

Gas Turbine Package and Auxiliary Supply

Startup and Commissioning

Operation and Maintenance Training

Extended Service Agreement

based on equipment condition. The agreement also provides all package replacement parts, emergency callout support, generator services and gas turbine overhaul. The extended service agreement coverage results in more uptime, greater productivity and optimized life cycle.

**RELIABILITY**

**COST SAVINGS**

**GREENHOUSE GAS REDUCTION**

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