



GAS STORAGE

Ancona Storage Facility

OWNER
Nicor Gas

LOCATION
Northern Illinois, USA

PRODUCT
One Mars® 90 Compressor Set
Two Centaur® 50 Compressor Sets

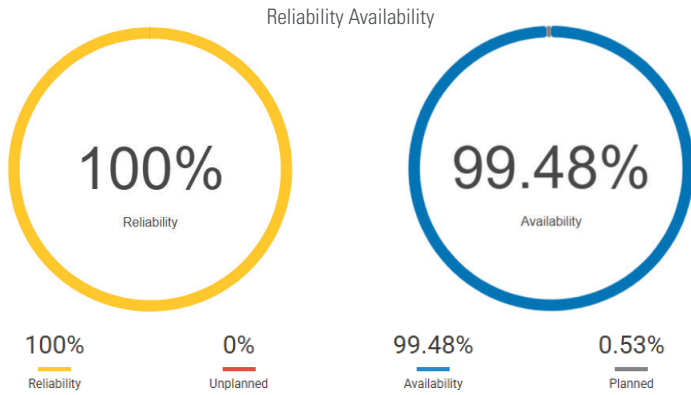
Nicor Gas has been a trusted partner of Solar Turbines since 1962, serving 2.3 million customers across Northern Illinois with clean, safe, reliable, and affordable natural gas. To meet seasonal demand fluctuations, natural gas from interstate pipelines is stored in naturally occurring underground geological formations. This stored gas is then withdrawn in winter, ensuring a steady and dependable supply when heating needs peak.

Modernizing Compression Infrastructure

To enhance operational efficiency and meet growing market demands, Nicor Gas upgraded its Ancona storage facility, located just outside Chicago, by replacing aging reciprocating compressors

Solar Turbines
A Caterpillar Company

Gas Storage



InSight Platform: InSight Performance for Unit 41, Aug 2024 - July 2025

with one Mars® 90 and two Centaur® 50 compressor sets from Solar Turbines. This strategic investment reflects a broader industry shift toward larger, more efficient blocks of compression.

Solar's turbine-driven compressor sets offer significant advantages over traditional reciprocating equipment, including higher availability and reliability, reduced maintenance requirements and lower greenhouse gas emissions. The ability to start turbines remotely and monitor equipment health through Solar's InSight Platform™ further empowers Nicor with real-time visibility and control, ensuring optimal performance and long-term sustainability.

Solar Turbines' solutions have played a key role in supporting Nicor's mission to deliver energy efficiently and sustainably, helping maintain operational reliability and customer satisfaction year-round.

Maximizing Uptime with InSight Platform™

At Nicor Gas, reliability is non-negotiable. By leveraging Solar Turbines' InSight Platform™, Nicor has achieved an impressive 99% - 100% equipment availability and reliability - a critical benchmark for infrastructure that supports energy delivery to millions of customers.

The InSight Platform™ provides real-time monitoring and analytics, enabling proactive maintenance and remote operation capabilities. This not only minimizes downtime but ensures consistent performance across Nicor's operations.

**RELIABILITY AND AVAILABILITY
(REDUCING UNPLANNED SHUTDOWNS)**

REDUCED CARBON FOOTPRINT

REMOTE START AND STOP

VALUED OEM RELATIONSHIP

PROJECT DETAILS: One Mars 90 Compressor Set Driving C41 Compressor

- Gas Fuel
- SoLoNOx (DLE) Combustion System
- 15 ppm NOx, 25 ppm CO, 25 ppm UHC
- 13,180 ISO HP (9830 kW)

Available Heat (ISO):

Exhaust Flow: 318,010 lb/hr (144 250 kg/hr)

Exhaust Temp: 870°F (465°C)

Driven Equipment: C41 Compressor

- Max Head: 90,000 ft/lb
- Max Flow: 18,000 acfm (270 M³/min)

PROJECT DETAILS: Two Centaur 50 Compressor Sets Driving C40 Compressors

- Gas Fuel
- SoLoNOx (DLE) Combustion System
- 15 ppm NOx, 25 ppm CO, 25 ppm UHC
- 6280 ISO HP (4680 kW)

Available Heat (ISO):

Exhaust Flow: 145,270 lb/hr (65 890 kg/hr)

Exhaust Temp: 945°F (510°C)

Driven Equipment: C40 Compressor

- Max Head: 80,000 ft/lb
- Max Flow: 9500 acfm (270 M³/min)

For More Information:

www.solarturbines.com

infocorp@solarturbines.com

+1 619 544 5352