



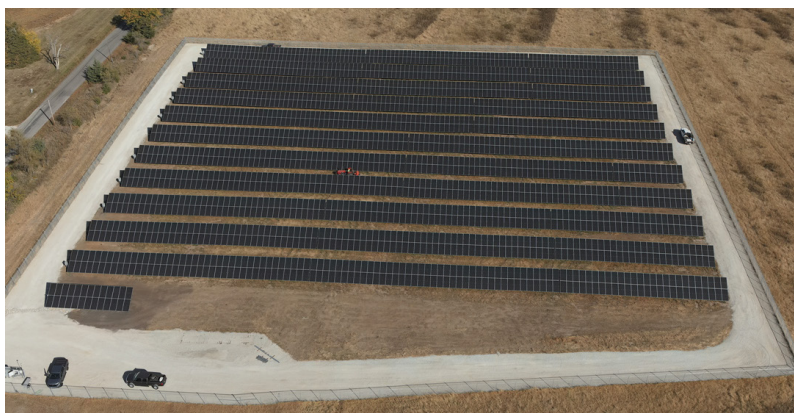
Case Study

Southern Star Central Gas Pipeline

Southern Star Central Gas Pipeline has made a transformative leap toward sustainable energy by incorporating a solar array at their natural gas station near Welda, KS. This strategic initiative is not only a testament to their commitment to reducing environmental impact but also showcases the significant advantages of integrating renewable energy into traditional energy infrastructure. The solar array, with a capacity of 999 kW AC, is designed to produce an impressive 1.8 MWh of energy annually.

By leveraging solar power, Southern Star is able to offset a substantial amount of greenhouse gas emissions—specifically, 1,270 metric tons of CO₂ each year. This reduction in emissions is equivalent to the environmental benefits provided by planting 20,996 trees over ten years, or serving the annual power needs of 175 homes with clean energy. By leveraging solar energy, Southern Star Central Gas Pipeline effectively reduces its carbon footprint and contributes to a more sustainable future.

This solar initiative exemplifies Southern Star's commitment to renewable energy solutions and sets a benchmark for others in the industry to follow. This project not only meets the facility's energy needs but also significantly reduces carbon emissions and supports the regional electrical grid. The collaboration with Evergy Energy Solutions underscores the effectiveness of partnerships in driving sustainable energy practices within traditional energy sectors.



SOLAR BENEFITS

Reduced Carbon Footprint: The solar array helps Southern Star Central Gas Pipeline significantly reduce its carbon footprint, supporting broader corporate sustainability goals.

Electrical Grid Resilience: By providing peak output during times of high demand, especially during hot summer months, the solar array helps alleviate stress on the larger electric grid.

Long-Term Sustainability: With a useful life of 30 years or more, the solar array ensures lasting value and ongoing environmental benefits.

SOUTHERN STAR SOLAR QUICK STATS

Project Completion: December 2024

System Size: 999 kW AC

Annual Production: 1.8 MWh, enough to power 175 homes

Environmental Impact: Offsets 1,270 metric tons of CO₂ annually, equivalent to planting 20,996 trees over ten years

Primary Application: Powering electric motors for natural gas compression