UTAH ASSOCIATED MUNICIPAL POWER SYSTEMS

Millard County Peaking Plant

Community-Driven Energy Solutions

As our member communities continue to grow, the demand for reliable and affordable electricity is more critical than ever. To meet this demand, UAMPS has identified the need for a dispatchable resource to complement the renewable resources that have come online in recent years. While renewable resources are economical and abundant, their inherent intermittence poses significant challenges to grid stability. Therefore, integrating a fast-acting natural gas-fired resource is essential for filling the hourly and daily resource needs, ensuring uninterrupted power supply, and enhancing overall grid resilience.

PROJECT HIGHLIGHTS

Type

The proposed 200 MW generation plant is designed to deliver robust and reliable energy, **capable of powering 30,000 to 40,000 homes.** The facility will utilize a small fleet of 10 to 12 Reciprocating Internal Combustion Engines (RICE) units, which offer the flexibility to be turned on or off quickly to match needed power to the grid.

Land Use

The plant design maximizes efficiency by utilizing **just 20-30 acres for operations**, with an additional 10-20 acres during construction. This minimal land footprint ensures that we maintain a balance between development and environmental stewardship, causing minimal disruption to the surrounding area while delivering reliable energy.

Location

Millard County, Utah, is ideally located to efficiently distribute electricity across urban and rural areas, supported by existing natural gas pipelines and transmission lines that reduce construction times and costs. The project will **stimulate local economic growth and job creation,** with strong community support ensuring smooth execution and long-term success.

Instant Reliability

State-of-the-art quick start-up technology can reach **full power in just 2 to 5 minutes**, providing dependable energy exactly when needed. This rapid response capability guarantees a steady and uninterrupted power supply during critical moments and enhances the resilience of the energy infrastructure.

Exceptional Efficiency

The proposed plan will achieve electrical **efficiencies exceeding 40%**. This is considered highly efficient for a power generation facility, indicating that it makes good use of its fuel resources, reduces waste, and minimizes its environmental impact. High efficiency is a key factor in sustainable energy production, as it means more electricity is generated from the same amount of fuel, resulting in cost savings and lower emissions.

Contact Information:

For more information, please visit our website at **www.uamps.com**.

If you have any questions or would like to provide feedback, please contact **MillardCountyNGinfo@uamps.com**.

COMMUNITY & ENVIRONMENTAL COMMITMENTS

Maximized Land Efficiency

Unlike solar systems that require over 1,000 acres for similar energy output, this proposed natural gas plant uses a compact footprint of 20-30 acres. The efficient use of land minimizes environmental impact and preserves valuable land for other community needs.

Enhanced Clean Operations

Our cutting-edge RICE (Reciprocating Internal Combustion Engine) units are 40% more efficient than older models, drastically cutting nitrogen oxide emissions. This significant reduction in pollutants leads to cleaner air and a healthier environment for everyone.

Strict Safety Adherence

UAMPS will ensure community safety through rigorous inspections, cutting-edge detection technologies, comprehensive maintenance programs, and thorough staff training and emergency response plans. By adhering to strict regulations, UAMPS is committed to ensuring the highest levels of safety and environmental responsibility.

Improved Water Conservation

Utilizing an air-cooled system, the technology uses less than a million gallons of water annually—comparable to the consumption of just 12 residential homes. This remarkable efficiency is vital for conserving water resources in our region, demonstrating our commitment to sustainability and responsible resource management.

STRATEGIC BENEFITS

1

Unwavering Power Supply

Peaker plants deliver a stable and reliable electricity source during peak demand periods, ensuring grid stability and preventing power interruptions when you need it most.

2

Ultimate Flexibility

With the ability to quickly ramp up and down, these peaker plants are perfect for managing sudden spikes in electricity demand and seamlessly integrating with renewable sources like wind and solar, providing a balanced and resilient energy grid.

3

Cost-Effective Solution

Boasting lower initial capital costs and shorter construction times, peaker plants offer an economically viable option that ensures affordability without compromising quality.

4

Diversified Energy Portfolio

Investing in a natural gas plant enhances our energy portfolio, reducing over-reliance on any single source. This diversification mitigates risks associated with energy supply disruptions, ensuring a more resilient and secure energy future for our communities.

5

Future-Ready Technology

RICE generators in peaker plants are built to adapt, capable of burning different fuel types, including renewable natural gas (RNG) and hydrogen, ensuring they remain viable and efficient as energy markets and technologies evolve.

6

Superior Efficiency

Our high-efficiency peaker plants lead to significantly lower fuel consumption and operational costs, making them a smart and sustainable choice for long-term energy production.