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# Three (3) Siemens SGT6-5000F Location Analysis



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PEOPLE

NPPD Board of Directors  
Customer Committee  
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Nebraska Public Power District  
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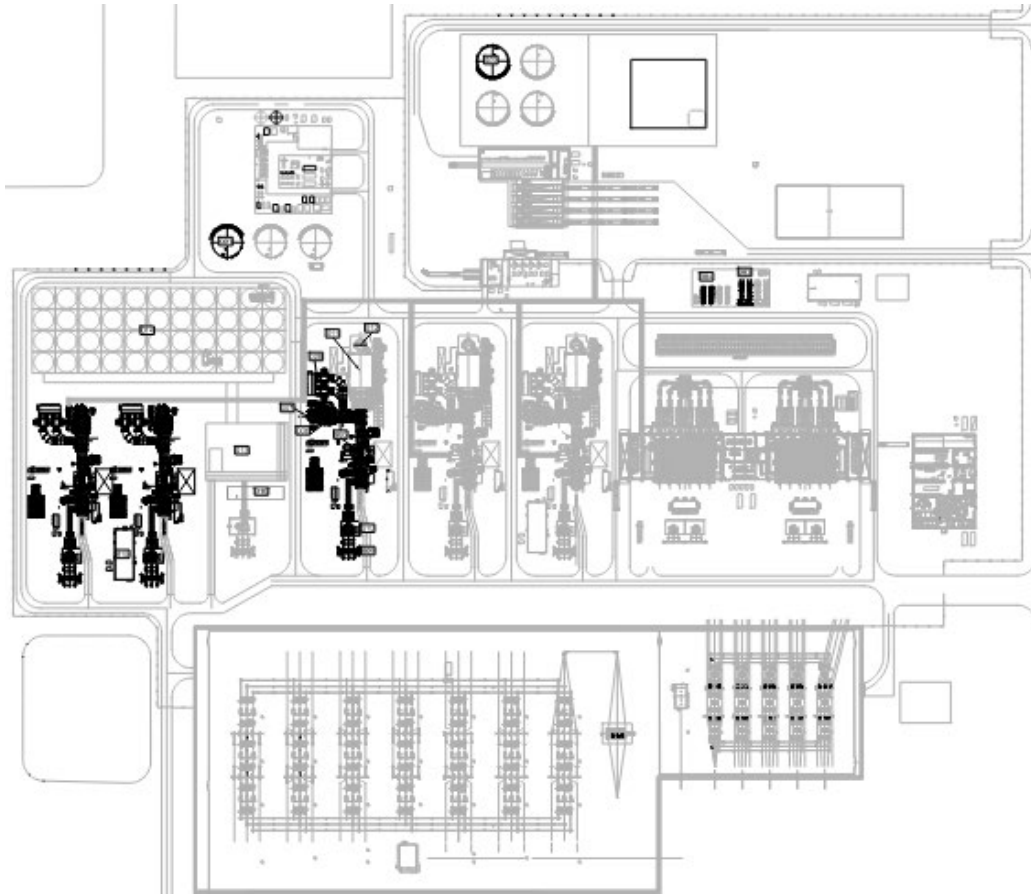
# Scenario

NPPD's plan was to install three Siemens SGT6-5000F combustion turbines (CTs) at Beatrice Power Station (BPS).

A strategic opportunity was identified to relocate these units to Princeton Road Station (PRS), creating a unified generation campus with five CTs and twelve reciprocating internal combustion engines (RICE).

This approach enhances operational efficiency.

# Site Selection



**Princeton Road Station Expansion**



**Beatrice Power Station Expansion**

# Comparison

| Item                            | Delta                      |
|---------------------------------|----------------------------|
| Natural Gas Supply              | PRS saves \$21.6M          |
| Network Upgrades                | PRS saves \$0 up to \$263M |
| JTIQ* Fees                      | PRS adds \$107.5 - \$143M  |
| EPC** Estimate (Power Block)    | PRS adds \$10M             |
| EPC Estimate (Balance of Plant) | PRS saves \$150M           |
| <b>Overall Cost</b>             | PRS saves \$19M - \$317M   |

Utilizing indicative pricing, known costs, and estimated costs, placing the three Siemens CTs at PRS represents a \$19M - \$317M of cost savings over placement at BPS.

\*Joint Targeted Interconnection Queue

\*\*Engineering, Procurement, Construction

# Benefits and Concerns

## **Benefits:**

- Streamlined spare parts inventory
- Consolidated training and workforce development
- Consistent operating and maintenance practices
- Fleet-wide standardization in one location
- Preserves BPS land for future, advanced technologies

## **Concerns:**

- Two projects at same site
- Permitting and water

# Summary

## **PRS provides:**

- Potential for significant cost savings (\$19M - \$317M)
- Operational efficiencies through consolidation
- Greater strategic flexibility for future generation assets



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Questions?



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