



New Generation Update

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NPPD Board of Directors Meeting
Energy Supply & Customer & Support Services
Committees
December 2024

Art Wiese, Vice President - Energy Production
Scott Walz, Vice President - Energy Delivery



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Project Information

CAPITAL PROJECT	NOMINAL SIZE	LOCATION	2024 BUDGET	ESTIMATED 2025 BUDGET	ESTIMATED TOTAL COST	TARGET IN SERVICE
Battery Energy Storage (C/10698)	50 MW, 200 MWhrs	Ainsworth Wind Energy Facility	\$117.8 Million	NA	\$117.8 Million	Project Paused
Reciprocating Internal Combustion Engines (RICE) (C/10860)	216 MW	Princeton Road Station (Near Sheldon Station)	\$230 Million*	\$559.1 Million	\$789.1 Million	Jun 2029
Combustion Turbines (CT) (C/10906)	478 MW	Princeton Road Station (Near Sheldon Station)	\$224 Million*	\$496.4 Million	\$720.4 Million	Jun 2029

* 2024 RICE/CT Funding is for Procurement of Long Lead Equipment

Projects Status

Accomplishments / Look Ahead

CAPITAL PROJECT	ACCOMPLISHMENTS	LOOK AHEAD
Reciprocating Internal Combustion Engines (RICE)	<ol style="list-style-type: none">1) Received Bids (2 bidders)2) Evaluating bids and having discussions with bidders3) Continued work on modeling for air/water permits	<ol style="list-style-type: none">1) Complete negotiations2) Targeting Contract award in January 2025
Combustion Turbines (CT)	<ol style="list-style-type: none">1) Issued Request for Bids2) Same as 3) above	<ol style="list-style-type: none">1) Bids are due December 192) Targeting Contract award in February 2025
Engineer Procure and Construct (EPC) Contract	<ol style="list-style-type: none">1) Issued request for information on interest in performing this EPC work	<ol style="list-style-type: none">1) Will issue EPC specifications in early 2025 and are targeting contract award no later than 4th Quarter 2025

Actual expenditures for both projects is approximately \$3.5 million through the month of November (Battery costs removed from this report.)

Information on RICE Scope

Scope of Bid:

- 1) Purchase 12 engine-generator sets, each set capable of ~ a nominal 18+ Megawatts (MW) of generation (gross MW)
- 2) Supporting Equipment includes:
 - a. Catalyst for control of emissions
 - b. Exhaust stacks
 - c. Auxiliary equipment/systems needed to operate and maintain
- 3) Budgeted dollars were \$174 million for this scope
- 4) Also considering a Long-Term Service Agreement (LTSA) for ongoing maintenance of the engines after they are commissioned

Information on RICE Scope (View of Engine only)



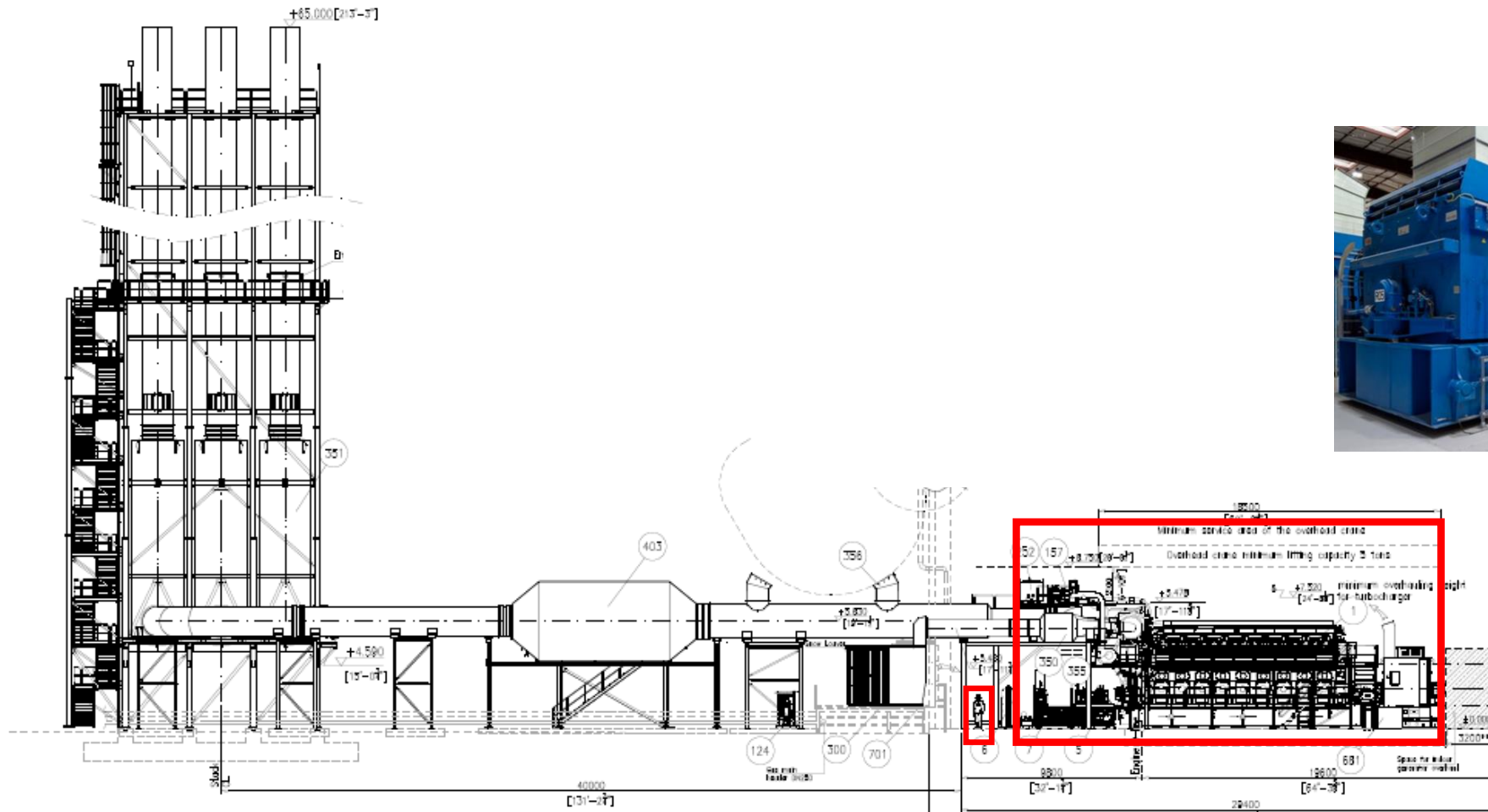
Information on RICE Scope (Engine-generator set)



Information on RICE Scope (engine-generator set)



Information on RICE Scope (cross section view of a typical RICE set-up)



Example of RICE-Only Facility (Facility in Alaska)



- 1) The RICE Engines are inside the long building
- 2) Most of what is seen in the picture is EPC contractor (or other contractor) scope of work and is a RICE-only facility
- 3) The NPPD facility will be customized to meet our needs at Princeton Road Station for RICE, CT's, and potential future build out (more to come on that in future updates)



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Questions

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