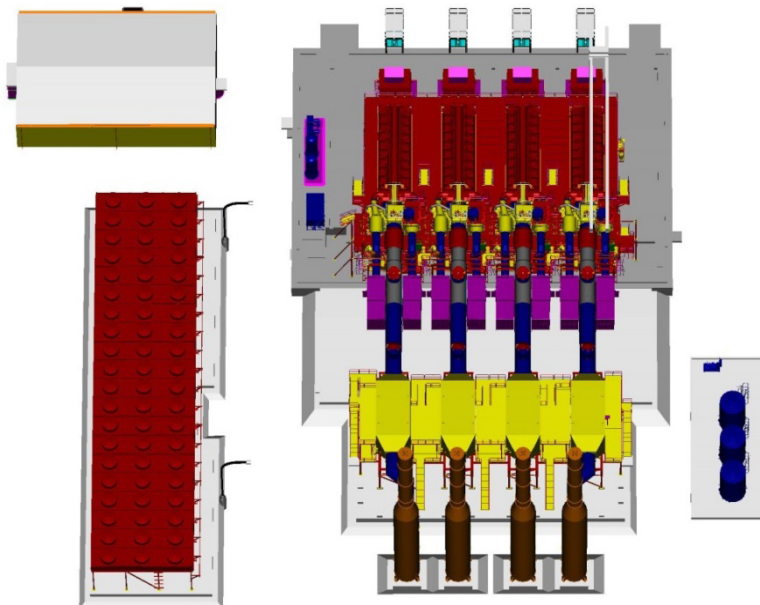


City of Tallahassee

Hopkins Reciprocating Internal Combustion Engine (RICE) Engineering and Design Project Profile

Sargent & Lundy

Client:	City of Tallahassee
Project Name:	Hopkins RICE Project
Location:	Tallahassee, Florida
RICE Supplier:	Wärtsilä
RICE Model:	20V34SG
RICE Size:	75 MW (4x18.8 MW)
Fuel:	Natural gas



Schedule Milestones:

- **Preliminary engineering and permit support**
December 2016
- **Award RICE contract**
April 2017
- **Start construction**
September 2017
- **RICE commercial operation**
Q1 2019

Description:

Sargent & Lundy's scope of services for the City of Tallahassee, Florida's (the City) Hopkins RICE project:

- **Development of Conceptual Design.** Sargent & Lundy worked closely with the City to develop a conceptual design of the new RICE facility located on the existing Hopkins generating site. Site plot plans and general arrangement drawings were developed to locate the RICE units and balance-of-plant (BOP) equipment at the location of the retired GT-1 and GT-2 units. The design optimizes constructibility, avoidance of the existing pond, and access for operations and maintenance. Existing underground piping, sewers, and electrical lines required demolition and relocation. A capital cost estimate, project schedule, and supporting functional drawings (P&IDs, electrical single-lines, etc.) were also developed during this phase of the project.
- **Permitting Support.** Sargent & Lundy provided information to support the City's preparation of permits.



- **Detailed Engineering, Design, and Procurement.** Sargent & Lundy will perform the project management, administration, procurement, and detailed engineering and design services for BOP items. This includes the award of the RICE equipment contract, which encompasses all major reciprocating engine and auxiliary equipment, e.g., selective catalytic reduction (SCR) systems to reduce nitrogen oxide (NO_x) emissions, exhaust ductwork, and stacks. Sargent & Lundy work scope also includes preparing and administering complete specification packages for BOP equipment and construction labor, as well as the detailed design of mechanical / electrical/ control processes, BOP interconnects, civil works, and transmission and distribution interface to the existing switchyard.
- **Construction Management and Commissioning.** Sargent & Lundy's team of construction management and commissioning specialists will provide civil/structural, electrical/I&C, and mechanical expertise to support project construction through startup/commissioning. This team will manage the execution of all construction contracts and ensure that the installed systems and equipment are in compliance with contractual obligations, including cost and schedule. The team will work closely with the installation contractor to provide support through the project precommissioning, commissioning, and integrated plant testing phases to place the facility components, equipment, subsystems, and systems into initial operation.

Sargent & Lundy Contact:

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