

**Solicitation Number: 23-58112****Cogen Fire and Gas Control Panel Upgrade****1. Advance Contract Award Notice (ACAN):**

An ACAN is a public notice indicating to the supplier community that a department or agency intends to award a contract for goods, services or construction to a pre-identified supplier, thereby allowing other suppliers to signal their interest in bidding by submitting a statement of capabilities. If no supplier submits a statement of capabilities that meets the requirements set out in the ACAN on or before the closing date stated in the ACAN, the contracting officer may then proceed with the award to the pre-identified supplier.

**2. Definition of the requirement:**

The National Research Council of Canada has a requirement to upgrade the Fire and Gas Control System on its existing SGT-100 gas turbine and integrate it into the Cogen Control System at the same time as the Cogen controls are updated.

The National Research Council of Canada (NRCC) owns and operates an European Gas Turbine Typhoon-Intro Gas Turbine Generator (GTG) at a nominal output of 4.0 MWe located in Ottawa, Ontario. The GTG was installed as an “intro” model in 1993 and has issued a contract to Siemens Energy Canada to update the Cogen control system.

The upgrade has four (4) components:

1. PLC Controls System Upgrade (Allen Bradley Contrologix)
2. Integrated Fuel Valve upgrade (IFV)
3. Electric Variable Guide Vane Actuator System Upgrade (EVGv)
4. Warranty
  - One Year Warranty on Parts and Labor
  - Siemens to be responsive to a call, on site with qualified personnel and appropriate tools within 48hrs.

**Fire and Gas Panel Upgrade and Integration:**

The Fire and Gas Panel Upgrade was initially considered work that could be done prior to the Cogen control system upgrade and integrated into the new Cogen control panels. This path has proven to be complicated and operationally unsatisfactory: overall project risk,

constructability, coordinating two contractors in one space, commissioning, CSA certification, and warranty of both systems. As a result, the NRC is now looking to integrate the Fire and Gas panel directly into the Siemens Cogen control panels at the factory. This will de-risk integration challenges and ultimately improve operation as the Cogen control system and fire panel will be controlled from the same Human Machine Interface.

**3. Criteria for assessment of the statement of capabilities (minimum essential requirements):**

Any interested supplier must demonstrate by way of a statement of capabilities that they are capable to provide, install and support the following project minimum requirements:

- Fire and Gas controller and associated input / output hardware
- Programming of the new Fire & Gas control system
- Modifications and integration to the Cogen control system
- Updated field devices and wiring as required to form new Fire and Gas system in compliance with today's standard
- Panel certification (ESA recognized)
- Installation, commissioning and certification (ESA) of both systems;
- Security clearance at Designated Organizational Security (DOS) level

Work needs to be conducted by OEM vendor for interoperability reasons and overall compatibility and operational liability.

Statement of capability must demonstrate how the vendor can meet the Scope of work above.

**4. This procurement is subject to the following trade agreement(s):**

This procurement is subject to the following trade agreement(s)

- Canadian Free Trade Agreement(CFTA)
- Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP)
- Canada-European Union Comprehensive Economic and Trade Agreement (CETA)
- World Trade Organization–Agreement on Government Procurement (WTO-GPA)
- Canada–Honduras Free Trade Agreement
- Canada–Korea Free Trade Agreement
- Canada–Panama Free Trade Agreement
- Canada–Peru Free Trade Agreement

**5. Justification for the pre-identified supplier:**

- Siemens Energy Canada is the OEM vendor;
- Integrating the fire and gas system into Siemens Cogen Control System to provide one Human Machine Interface for one point of operational control.

- Siemens being the OEM is the only vendor that can de-risk the integration by providing one point of responsibility for construction, commissioning, inspection and warranty.

**6. Government Contracts Regulations Exception(s)**

The following exception(s) to the Government Contracts Regulations (GCRs) is invoked for this procurement under subsection 6 (d) – only one person/firm is capable of performing the work.

Siemens Energy Canada is the only authorized dealer to supply, install, and maintain the Siemens Cogen Control System.

**7. Exclusions and/or limited-tendering reasons:**

If the goods or services can be supplied only by a particular supplier and no

Reasonable alternative or substitute goods or services exist for any of the

Following reasons:

- to ensure compatibility with existing goods, or to maintain specialized goods that must be maintained by the manufacturer of those goods or its representative;

For additional deliveries by the original supplier of goods or services that were not included in the initial procurement, if a change of supplier for such additional goods or services:

(i) cannot be made for economic or technical reasons such as requirements of interchangeability or interoperability with existing equipment, software, services, or installations procured under the initial procurement; and

(ii) would cause significant inconvenience or substantial duplication of costs for the procuring entity

**8. Period of the proposed contract or delivery date:**

The National Research Council is expecting the onsite work to take place between March 1, 2024 and must be completed prior to May 31, 2024, including all commissioning phases

**9. Cost estimate of the proposed contract:**

The estimated value of the contract, is \$344,931.00 (GST/HST extra).

All costs are subject to negotiations.

**10. Name and address of the pre-identified supplier:**

Siemens Energy Canada Limited  
1577 North Service Road East  
Oakville, Ontario  
L6H 0H6

**11. Suppliers' right to submit a statement of capabilities:**

Suppliers who consider themselves fully-qualified and available to provide the goods, services or construction services described in the ACAN may submit a statement of capabilities in writing to the contact person identified in this notice on or before the closing date of this notice. The statement of capabilities must clearly demonstrate how the supplier meets the advertised requirements.

**12. Closing date and time for a submission of a statement of capabilities:**

The closing date and time for accepting statements of capabilities is:

September 26, 2023 at 14:00 PM EDT

**13. Inquiries and statements of capabilities are to be directed to:**

NRC Contracting Officer: Collin Long  
National Research Council Canada  
Email: Collin.Long@nrc-cnrc.gc.ca