



PTAC

**PETROLEUM
TECHNOLOGY
ALLIANCE
CANADA**

REQUEST FOR PROPOSAL (RFP)

Energy Efficiency Technology Database Tool for the Oil and Gas Industry

January 17, 2007

Energy Efficiency RFP Overview

- { **RFP a result of considerations by the PTAC facilitated Technology for Emission Reduction and Eco-Efficiency (TEREE) Steering Committee.**
- { **Many studies on Energy Efficiency undertaken, but none are comprehensive enough on providing solutions to challenges.**
- { **Propose web-based, user-friendly, searchable database tool covering all types of opportunities and operations.**
- { **Lack of comprehensive and interactive database tool will continue to impede industry's efforts to improve their energy efficiency and air emission reductions.**
- { **Database tool next logical step in the TERE process. Useful for many companies by providing a comprehensive and up to date source of information.**

Energy Efficiency RFP Overview

{ The project would integrate and build upon, but not duplicate, previously published or ongoing work such as:

- **PTAC Improving Fire-Tube Immersion Heater Efficiency Project**
- **PTAC Review and Update of Methods Used for Air Emissions Leak Detection & Quantification Project**
- **Technology evaluation work published by the US Gas Star Program**
- **Summary of Emission Reduction Opportunity Areas in the Upstream Oil and Gas Industry, published by PTAC**
- **An Assessment Of Alberta's Environmental Technologies Industry, published by CETAC-West**

** further information on PTAC facilitated TERE projects available at www.ptac.org/eet/eetp.html*

TEREE Overview

{ A committee comprised of members from Industry, Governments, Regulators, Non Government Organizations to facilitate the:

- Recognition and understanding of key emission reduction issues
- Development of new technologies and best practices that address identified gaps
- Transfer into practice new and existing technology and best practice based solutions, and
- Identification and evaluation of existing eco-efficient technology and best practice solutions to address these key issues
- Verification of actual emission reductions achieved

→ **Focus of this RFP**

TEREE GHG Reduction Opportunities

{ April 2004 - TEREЕ Steering Committee identified top five priority areas for emission reductions based on Summary of Emission Reduction Opportunity Areas in the Upstream Oil and Gas Industry*:

1. Venting (reported and unreported) including storage
2. Reciprocating engines
3. Heaters and boilers
4. Flaring & incineration
5. Fugitive equipment leaks

**source: Clearstone Engineering*

{ <http://www.ptac.org/links/dl/TEREEMatrix.xls>

Energy Efficiency RFP

{ The purpose of this RFP is:

- To initiate a project that will identify and evaluate all energy efficiency and air emission reduction technology options available or in development, including alternative energy options such as solar or wind, in the Western Canadian upstream oil and gas industry.**

Energy Efficiency RFP

{ **The project seeks to identify:**

- **costs (both operating and capital),**
- **strengths,**
- **potential energy and air emissions savings and other benefits,**
- **limitations, and**
- **suppliers of the technologies**
- **could form the basis for field trials (for technologies previously not tested nor proven) and regulatory decision making in this area.**

Potential Funders, Performers & Process

- { Interested potential funders and potential suppliers to complete and submit an Expression of Interest Form (EOI)**
- { TEREЕ and potential funders will screen all preliminary proposals and determine which suppliers will make formal presentations.**
- { The successful project supplier expected to be selected by mid February, 2007 with direction provided by a project committee (PC) comprised of project funders and TEREЕ representatives.**
- { PTAC is seeking completed expression of interest forms and financial commitments by January 31, 2007 in order to launch this project.**

Potential Funders, Performers & Process

- { The final completion date of Phase 1 is anticipated to be May 15, 2007.**
- { At the discretion of the project funders, project results may be kept confidential for a period of up to one year, but will otherwise be widely publicized to industry, government and academia with facilitation provided by PTAC.**
- { It is hoped this project will lead to increased commercialization of energy efficiency and air emission reduction technology in the oil and gas industry.**
- { In addition, it is hoped that new technology will be developed and commercialized to address gaps identified by the project.**

Next Steps and Questions

- { Review RFP at: <http://www.ptac.org/eet/eetr0602.html>
- { Submit Expression of interest form by January 31, 2007:
 - <http://www.ptac.org/eet/dl/eetr0602e.pdf>
- { Questions, please contact:
 - Ralf Aggarwal, Manager, Environmental Technology Initiatives
 - ragnarwal@ptac.org, 403 218-7711