



PTAC

**PETROLEUM
TECHNOLOGY
ALLIANCE
CANADA**

**REQUEST FOR PROPOSAL (RFP) - Draft
GENERATION OF ELECTRIC POWER FROM WASTE
HEAT IN THE WESTERN CANADIAN OIL AND GAS
INDUSTRY**

January 17, 2007

Background

- { PTAC conservatively estimates that in excess of 2000 MW of additional electric power could economically be generated from waste heat currently being emitted by the Western Canadian oil and gas industry (including upstream and pipeline operations) using new technology.**
- { In addition, there is enormous potential to generate electric power from warm water contained in aquifers in the Western Canadian Sedimentary Basin using similar technology**

Energy Efficiency RFP – Purpose

- **The overall purpose of this RFP is to initiate a series of projects using a phased approach that will ensure that the necessary steps are taken to enable commercialization of waste heat to electric power generation technologies in the Western Canadian oil and gas industry (including upstream and pipeline operations).**

Steps

- **Determination of the price that various types of investors can afford to pay on an installed kilowatt (kW) basis under a variety of circumstances including, but not limited to, such factors as electric power price, size of installation and location and type of operation.**
- **Characterization of the size and nature of this opportunity on a geographic basis in the Western Canadian oil and gas industry.**
- **Identify any capacity restrictions of the electrical grid on a geographic basis to transmit the additional electricity that would not be consumed at each new generation site.**

Outcomes & Next Steps

- { It is anticipated that these steps will lead to new projects, including PTAC facilitated projects, covering all aspects of technology development, engineering design, field demonstrations and case study documentation of waste heat to electric power pilot projects in a variety of types of operations.
- { Please contact Eric Lloyd at 218-7701, elloyd@ptac.org if you are interested or have any feedback on this draft RFP.