

Innovative and Reliable Energy Solutions

Fuel Combustion and Emissions

Cogeneration, Gasification and Power Applications

Reliability and Applications in Oil and Gas

- Keynote Presentations
- Training Sessions
- Technical papers
- Posters
- Networking

2009

IAGT Symposium

Innovative and Reliable Energy Solutions



The Industrial Application of Gas Turbines (IAGT) Committee is a Technical Advisory Group to Canadian industry and government. It provides a forum for the exchange and dissemination of ideas and the communication of new developments related to the industrial application of gas turbines in Canada.

The vehicle for communication is a biennial technical symposium for the presentation of technical papers and expert panel discussions. Sectors of industry involved include research and development, application, performance, operation, maintenance and user experience.

Technical Sessions and Course Modules in:

Fuels, Emissions and Gasification
Cogeneration and Power Applications
Reliability and Applications in Oil and Gas

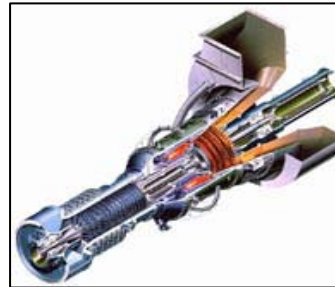


www.iagtcommittee.com

Industrial Application of Gas Turbines



Technical Advisory Group to Canadian industry and government, provides a forum for the exchange of ideas new developments related to the industrial application of gas turbines in Canada.



Presently under the sponsorship of the Canadian Gas Association and the National Research Council, the IAGT Committee organizes a biennial Technical Symposium and Short Course, with technical papers and discussion panels covering all aspects of industrial gas turbines.



IAGT Committee Members

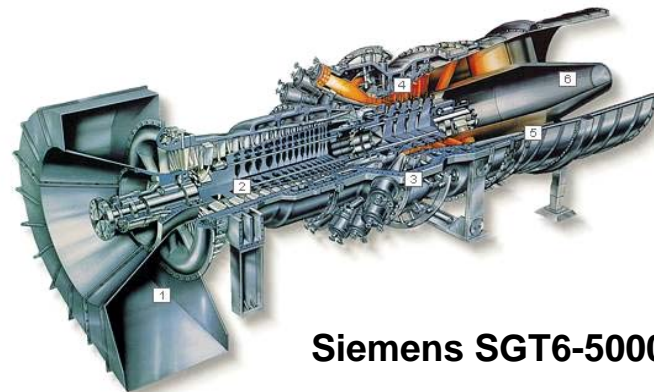


<p>Wajid Chishty, Nat'l Research Council</p> <p>Paul Colwell, Spectra (Union Gas)</p> <p>Martine Gagne, Rolls Royce Canada</p> <p>Bryan Halliday, NRCan-CANMET</p> <p>Lawrence Kaempffer, Siemens</p> <p>Keith Drysdale, Imperial Oil</p> <p>Todd Parker, Spectra (Westcoast)</p> <p>Manfred Klein, Nat'l Research Council</p> <p>Chris Gilmour, Shell Canada</p>	<p>Allan Potter, TransCanada Pipelines</p> <p>Jim McArthur, Innovative Steam Technologies</p> <p>Jim Noordermeer, Gryphon Int'l Engineering</p> <p>Martin Perrin, Liburdi Engineering</p> <p>Jeff Sansome, Standard Aero</p> <p>Ken Walls, Solar Turbines</p> <p>Ida Wierzba, Univ of Calgary</p> <p>Louis Marmen, Cdn Gas Association</p> <p>Tracy Soyka, WDYS Events</p>
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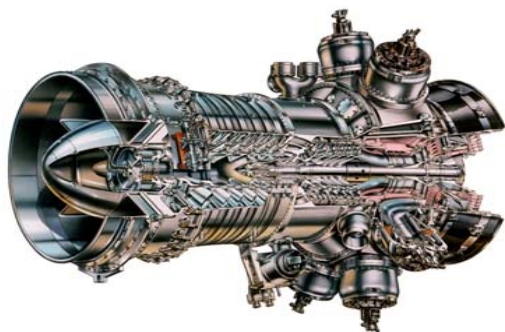
GAS TURBINES



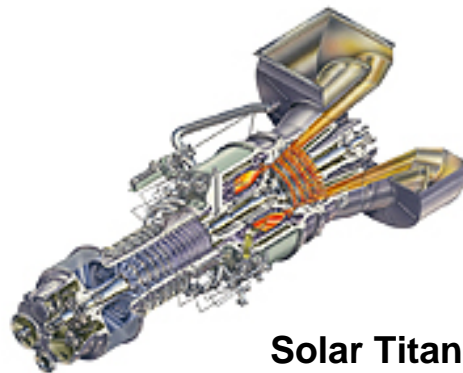
Various Types and Applications



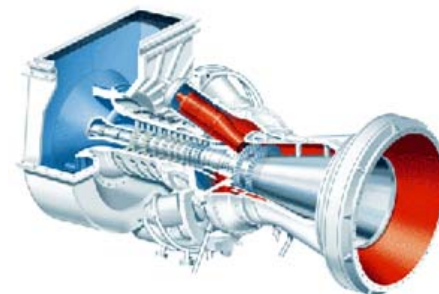
Siemens SGT6-5000



RB211 DLE



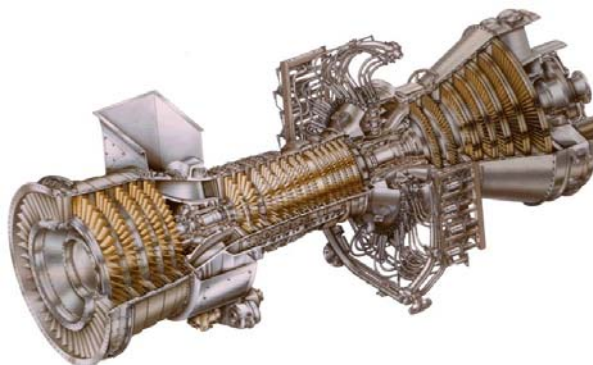
Solar Titan



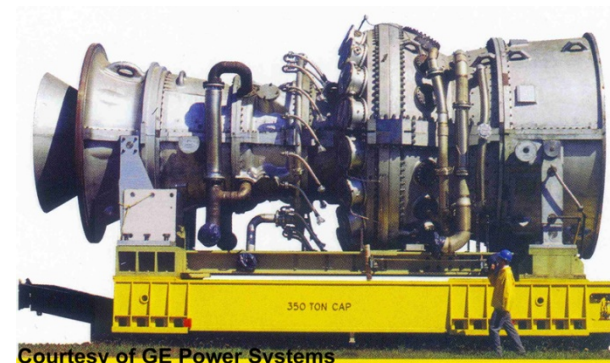
Siemens SGT400



Capstone Microturbine



GE LM6000 DLE



Courtesy of GE Power Systems

GE Frame 7

Gas Turbines in Canadian Energy

- About 21 000 MW in total,
 most of it built since 1990
- 1100 Aero & Industrial units

Combined Cycles

20 plants, 6000 MW

Cogeneration and CHP

75 plants, 6500 MW

Peak Electric Power

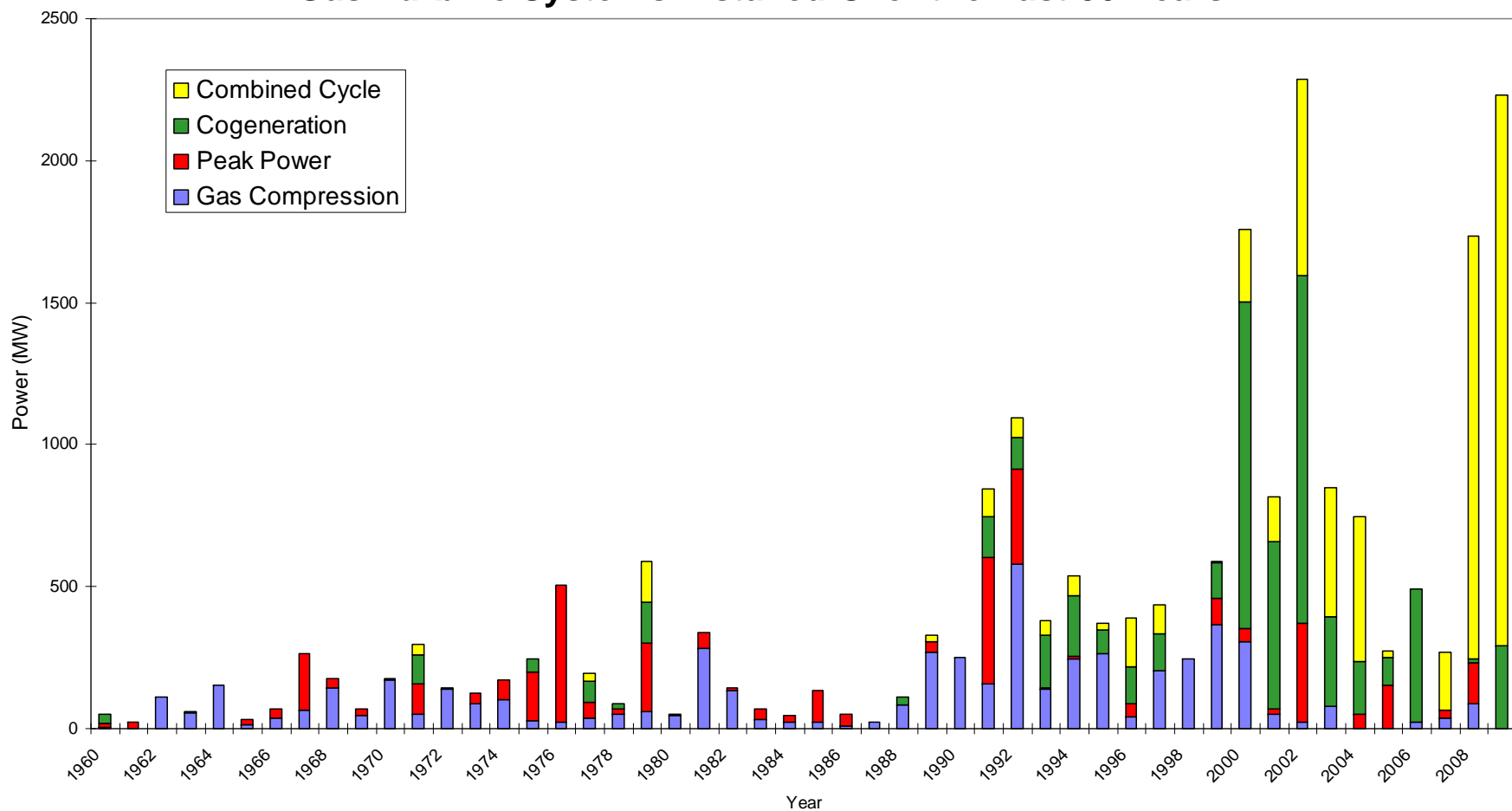
30 Plants, 3000 MW

Gas Pipeline Compression

120 plants, 5000 MW



Gas Turbine Systems Installed Over the Last 50 Years



(~ 21 000 MW total)

Innovative and Reliable Energy Solutions



- High Efficiency Industrial Cogeneration
- Municipal District Energy Systems
- Small Onsite Distributed Energy (CHP)
- Combined Cycles (Repowering & Greenfield)
- Waste Energy Recovery
- Gas Pipeline Compression
- Integrated Energy Systems, Polygeneration
- Coal & Petcoke Gasification Systems
- Carbon Capture and Storage
- Electric Power Peaking

*New Gas Turbine based systems can lead to GHG red'ns of 50-70 Mt/yr
- Low Air Pollution, GHG Emissions, Air Toxics and Water Impacts*

Various Types of Canadian Gas Turbine Applications

Pipelines, Oil and Gas Production, Offshore and Oilsands, Combined Cycles, Industrial Commercial Cogeneration, Gasification, Transportation



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