

Donor country Canada			
Project/programme title Investigation for Demonstration of Plasma Ignition System - APP Project			
Purpose This project aims to implement plasma systems for the Canadian power sector in order to enhance energy efficiency and reduce emissions.			
Recipient country Australia, Canada, China, India, Japan, Korea and the United States	Sector Energy generation	Total funding \$350,000 over 3 years (GoC contribution), Private Sector Leverage: \$755,000	Years in operation 2009-2012
Description In this activity, China will host a series of site visits to demonstrate plasma ignition technology, which can directly ignite pulverized coal, thereby replacing fuel oil and ensuring ignition and stable combustion for pulverized-coal boilers in an energy-efficient manner.			
Indicate factors that led to project's success This project has just been initiated.			
Technology transferred China Guodian will host a series of site visits regarding the plasma ignition technology to highlight reliable energy conservation and environment protection technology and its application in China. The goal of the project is to help power generators learn the benefit of the plasma technology. <i>Plasma Ignition and Combustion Stabilization System:</i> Directly igniting pulverized coal, the system can replace fuel oil and ensure ignition and stable combustion for pulverized-coal boilers. This system has found successful application in 270 of pulverized-coal boilers, with coals covering lean coal, bituminous coal and lignite; unit capacity of 50MW-1000MW, both tangential-fired and wall-fired types; milling systems including indirect-fired and direct-fired types; mills including spheroidal roller mill, ring-roller mill, ball race mill with double inlets and outlets, roller pulverizer, and fan mill, etc.			
Impact on greenhouse gas emissions/sinks			