

Technical Luncheon – Environment
Tuesday June 8, 2010
11:45 am to 1:00 pm
Doors will open at 11:15 a.m.

Glenbow Museum, Calgary
130 – 9 Avenue SE, Main Floor

Project Pioneer

Making Coal a Carbon-Neutral Fuel

Presented by: Mark Mackay, Vice-President, Technology & Innovation
TransAlta Corporation

Project Pioneer is among the world's largest fully-integrated carbon capture and storage (CCS) initiatives within the power sector. It will be a near-commercial scale demonstration of all elements of the CCS chain through a unique combination of partners, technology and integration. Operating by 2015, Project Pioneer will be integrated with Keephills 3 (K3) a 450 MW super-critical coal-fired plant jointly owned by TransAlta and Capital Power. Located 70 kilometers west of Edmonton, K3 is ideally suited overtop potential saline aquifer storage sites and near large oil fields suitable for enhanced oil recovery.

Mark Mackay is responsible for the development and application of new power generation technologies including carbon capture and storage and leadership of the Keephills 3 power plant construction project. Mr. Mackay has over 25 years experience in power plant design, development and construction. Prior to this role he was the Director of Engineering Services at TransAlta Corporation. He has a Bachelor of Applied Sciences from UBC and is a registered professional engineer in Alberta and Saskatchewan.