

## **CCEMC Reviewer and Panel Member Expertise**

The CCEMC 's mandate is to consider funding projects that reduce GHG emissions or assist Alberta in adapting to climate change. The CCEMC's initial funding is directed to greening energy production, carbon capture and storage and conservation and efficiency. To ensure all submissions receive an in-depth review, the CCEMC ensures that project reviewers have the requisite technical, business and policy acumen required to fairly and professionally evaluate each submission.

To that end, the CCEMC has retained the services of Alberta Innovates – Energy and Environment Solutions (AIEES) to lead the adjudication process. AIEES has the requisite in-house capacity to provide the technical services required. Their competencies include a broad range of disciplines in the fields of engineering and science. In the adjudication process AIEES also makes use of the expertise available in the Alberta Government on greenhouse gas management, environmental policy and regulations and niche technical expertise in forestry, agriculture and biological systems. PriceWaterhouseCoopers has also been retained to provide business and financial competence. Where the required capacity does not exist internally, AIEES will outsource the required services to competent professionals who are accountable to the CCEMC for the provision of any services required.

The following list encompasses the qualifications, business and technical expertise of project reviewers.

### 1. Business Experience/Expertise:

- Chartered Accountants
  - Chartered Business Valuators
  - Chartered Financial Analysts
  - Chartered Insolvency & Restructuring Professional
  - Education levels include Bachelor of Commerce, Bachelor of Science, Masters of Business Administration, Masters of Economics, Masters of Engineering,
  
- Doctor of Philosophy in Environmental Science
  - Deal practitioners specializing in Financial due diligence for financial and strategic buyers
  - Specialists in the field of Climate Change providing services including Greenhouse Gas Auditing, Environmental Management Systems, Environmental Due Diligence, Compliance and Management Auditing, Corporate Social Responsibility Reports, Non-financial Performance indicators

## 2. Technical Experience/Expertise:

- Master's and doctoral degrees in science and engineering
- Professional engineering qualifications/technical experience
  - major Canadian gas turbine manufacturers and engineering consultants
  - gas turbine and coal-fired power plant-related work for utilities and oil and gas companies.
  - developing new technologies for power generation, including coal gasification, carbon capture, fuel cells, and advanced gas turbines.
  - in-situ thermal recovery, cold production, formation damage, and conformance control
  - oil sands surface mining, processing chemistry and reliability
  - tailings management
  - carbon capture and storage
  - nuclear waste management
  - solar energy, using both photovoltaic and thermal technologies
  - geothermal energy
  - colloids and interfacial technology
  - enhanced oil recovery
  - modelling flow in porous media
  - organometallic chemistry
  - phase transfer catalysis
  - upgrading technology
- Professional natural sciences qualifications
  - Soil science, forest management, biology, ecology, limnology and environmental science/environmental engineering
  - R&D projects in agriculture(crop and plant), forestry & forest products, biotechnology, pulp and paper -- plans, budgets and project priorities.
  - pulp and paper processes
  - soil mineralogy
  - integrated resource management (departments of Forestry, Lands and Wildlife, and Alberta Environment).
- Policy and business expertise in:
  - Alberta's economy, environmental technology and societal needs.
  - environmental policies, procedures and regulatory issues with respect to energy development.
  - environmental consulting
  - environmental impact assessment.
  - Research theory and principles
  - environmental management
  - energy efficiency
  - air and wastewater emissions reduction
  - research and technology policies with respect to regulatory and climate change, environmental issues, renewable energy, and water use.
  - project management

- strategic planning,
- stimulating innovation
- Alberta's Climate Change Regulatory system and technology fund,
- governance structure for the Ecotrust Fund
- marketing
- business counselling -- new product development, technology commercialization
- environmental technology services and assessment
- zoology, limnology and ecology
- civil engineering /environmental science
- Project Management
- Architectural Drafting and Urban Planning
- Urban and Regional Planning, and Resource Economics