



**Climate Change and Emissions Management (CCEMC) Corporation**

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[ccec.ca](http://ccec.ca)

**Climate Change and Emissions Management (CCEMC) Corporation announces more than \$27.2 million in funding for six industrial energy efficiency projects**

**Projects valued at more than \$161.4 million in total**

EDMONTON -- Eric Newell, Chair of the Climate Change and Emissions Management (CCEMC) Corporation has announced more than \$27.2 million in funding for six new industrial energy efficiency projects.

“Supporting industry’s efforts to improve energy efficiency is key to reducing greenhouse gas emissions in Alberta,” said CCEMC Chair Eric Newell. “These projects are important both because of the impact they have on reducing emissions and because of the significant financial contribution that is being made by industry leaders province-wide.”

For every dollar the CCEMC invests in these industrial energy efficiency projects, on average, another \$4.93 is also invested, for a total combined investment of more than \$161.4 million.

“Alberta was the first jurisdiction in North America to establish an emissions reduction target for large emitters,” said Newell. “For Albertans, today’s announcement demonstrates that the CCEMC, industry and government are continuing to reduce emissions and helping this province become a leader in clean technology.”

Combined, the projects are estimated to reduce greenhouse gas emissions by about 3.2 megatonnes over 10 years. This reduction would be similar to removing more than 64,000 cars off the road every year for 10 years.

The organizations receiving funding from CCEMC are:

- NRGreen Power Limited, \$7 million dollars for the Whitecourt Energy Efficiency Project
- Conoco Phillips Canada, \$7 million dollars for Energy Efficiency Projects at Upstream Conventional Oil and Gas Facilities
- Weyerhaeuser Canada Limited, \$5 million dollars for the Weyerhaeuser Grande Prairie Evaporator Project
- Cenovus Energy Inc., \$3.6 million dollars for Engines and Compressor Emissions Control Project
- EnCana Corporation, \$2.4 million dollars for their Vent Gas Capture for Engine Fuel Use project
- Quantiam Technologies Inc., \$2.225 million dollars to advance and test technology to reduce emissions and improve efficiency in the manufacture of olefins using ethane feedstock

<<MORE>>



## News Release

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The Climate Change and Emissions Management Corporation strives to build a balanced portfolio over time and is aligned with Alberta's Climate Change Strategy. The projects CCEMC supports address energy conservation and efficiency, greening energy production and carbon capture and storage. With today's announcement, the organization is currently supporting 22 projects at all stages of innovation with a total planned investment of more than \$98.2 million.

In total, 52 responses were received to the Expression of Interest for industrial energy efficiency projects, and 17 were invited to submit full project proposals. For the six projects that are eligible for funding, four are in the deployment stage, one is a demonstration project and one project is in the discovery stage.

Since 2007, Alberta companies that annually produce more than 100,000 tonnes of greenhouse gas emissions are legally required to reduce their greenhouse gas intensity by 12 per cent. One compliance option is to pay into the Climate Change and Emissions Management Fund at \$15/tonne.

The CCEMC is a not-for-profit organization whose mandate is to establish or participate in funding for initiatives that reduce greenhouse gas emissions and support adaptation. The CCEMC invests in discovery, development, and operational deployment of clean technologies.

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For additional detail on the projects and contact information for funding recipients, see our backgrounder on [ccec.ca](http://ccec.ca).

For more information contact:

Kirk Andries

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Background on industrial energy efficiency projects

**Climate Change and Emissions Management (CCEMC) Corporation announces more than \$27.2 million in funding for industrial energy efficiency projects**

The Climate Change and Emissions Management (CCEMC) Corporation announced February 28 that it is funding six industrial energy efficiency projects, totalling more than \$27.2 million. The following summary of industrial energy efficiency projects includes descriptive information from project proponents, as well as media contact information.



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**Organization: NRGreen Power Limited**  
**Project: Whitecourt Energy Efficiency Project**  
**CCEMC contribution: \$7,000,000**  
**Total project value: \$54,350,000**  
**Annual GHG reduction: 67,650 tonnes/yr**

Established in 2002, NRGreen Power is a privately owned independent power producer, affiliated with Alliance Pipeline. NRGreen Power is pursuing commercial opportunities to further develop green energy at compressor stations along the Alliance Pipeline system and other industrial facilities. NRGreen currently operates four such waste heat units, in Saskatchewan, producing a total of 20 megawatts of electricity per hour.

NRGreen Power's Energy Efficiency Project will use a proven, innovative, waste heat technology to generate electricity at Alliance Pipeline's natural gas compressor station near Whitecourt. The Energy Efficiency Project will reliably generate and deliver up to fourteen megawatts of electricity per hour – enough power for 14,000 homes. Using industrial heat that would otherwise be lost to the atmosphere, and without producing any new emissions, the project will also yield a average estimated greenhouse gas emission reduction of 67,650 tonnes per year.

**MEDIA INQUIRIES:**

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Senior Communications Advisor  
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**Organization: ConocoPhillips Canada**  
**Project: Energy Efficiency Projects at Upstream Conventional Oil and Gas Facilities**

**CCEMC contribution: \$7,000,000**

**Total project value: \$14,050,000**

**Annual GHG reduction: 48,540 tonnes/yr**

ConocoPhillips Canada (CPC) is one of the country's largest oil and natural gas production and exploration companies. Headquartered in Calgary, we are a top three producer of natural gas in the country, with a world-class portfolio including assets in western Canada, the Arctic, Atlantic Canada and oil sands interests near Fort McMurray, Alberta. We employ approximately 2,000 people in Canada and have a proud history that dates back 100 years.

Conoco Phillips' project will focus on ten different technologies to improve energy efficiency and reduce emissions, and will involve approximately 400 of our facilities. These technologies will range from small technology installations that will be repeated at multiple well-sites and smaller facilities, to large new-technology projects which will be installed at larger gas plants. All of these technologies have good potential for emissions reduction in our province. Our project is anticipated to reduce greenhouse gas emissions by approximately 48,540 tonnes each year; the equivalent to taking about 9708 cars off the road. The objective of our project is to demonstrate that energy efficiency and emissions reduction projects can be economically viable if they are managed and executed properly. Demonstrating that these types of projects can reduce emissions while addressing economic hurdles is the best way to accelerate their adoption by the upstream oil and gas industry.

**MEDIA INQUIRIES:**  
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**Organization: Weyerhaeuser Company Limited**  
**Project: Weyerhaeuser Grande Prairie Evaporator Project**  
**CCEMC contribution: \$5,000,000**  
**Total project value: \$72,500,000**  
**Annual GHG reduction: 103,780 tonnes/yr**

Weyerhaeuser Company, one of the world's largest forest products companies, began operations in 1900. We grow and harvest trees, build homes and make a range of forest products essential to everyday lives. We manage our timberland on a sustainable basis in compliance with internationally recognized forestry standards. At the end of 2010, we employed approximately 14,000 employees in 10 countries. We have customers worldwide and generated \$6.6 billion in sales in 2010. Our stock trades on the New York Stock exchange.

Weyerhaeuser Company Limited, at its Grande Prairie Alberta pulpmill, plans to replace its 5-effect evaporator plant with a new state-of-the-art, high efficiency 7-effect evaporator plant. This new evaporator plant will significantly reduce greenhouse gas emissions, while also generating 23 MWs of additional green power for export to the Alberta power grid.

MEDIA INQUIRIES:  
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**Organization: Cenovus Energy**  
**Project: Engines and Compressor Emissions Control Project**  
**CCEMC contribution: \$3,600,000**  
**Total project value: \$10,690,000**  
**Annual GHG reduction: 19,980 tonnes/yr**

Cenovus Energy is a Canadian oil company. It's committed to applying fresh, progressive thinking to safely and responsibly unlock energy resources the world needs. The company's operations include oil sands projects in northern Alberta, which use specialized methods to drill and pump the oil to the surface, as well as natural gas and oil production across Alberta and southern Saskatchewan. Cenovus also has 50-percent ownership in two U.S. refineries.

This project will build on Cenovus's track record of emissions reductions to install air/fuel ratio (AFR) controllers and vent capture systems at 37 Cenovus-operated gas compression facilities in Alberta. By capturing gas vents and optimizing fuel use, the technologies are expected to reduce CO<sub>2</sub> equivalent emissions by about 19,980 tonnes per year.

**MEDIA INQUIRIES:**  
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**Organization: Encana Corporation  
Project: Vent Gas Capture for Engine Fuel Use**

**CCEMC contribution: \$2,400,000**

**Total project value: \$5,450,000**

**Annual GHG reduction: 61,160 tonnes/yr**

Encana is a leading North American natural gas producer that is focused on growing its strong portfolio of natural gas resource plays in key basins from northeast British Columbia to east Texas and Louisiana. By partnering with employees, community organizations and other businesses, Encana contributes to the strength and sustainability of the communities where it operates. Encana common shares trade on the Toronto and New York stock exchanges under the symbol ECA.

Encana's Vent Gas Capture for Engine Fuel Use project will install SlipStream® SA vent gas capture units on 52 natural gas compressors. Each SlipStream® SA will redirect captured methane, which is currently being vented to the atmosphere, into the compressors air intake so it can help fuel the compressor. This project is expected to be the first field implementation of REM Technology Inc.'s second generation vent gas capture technology. By redirecting this methane to fuel the compressor, about 61,160 tonnes of carbon dioxide equivalents will be reduced per year.

**MEDIA INQUIRIES:**

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**Organization: Quantiam Technologies Inc.**  
**Project: Catalyzed-assisted Manufacture of Olefins (CAMOL): Generation-2 for Energy and GHG Emissions Reductions in Higher Severity Ethane Crackers**  
**CCEMC contribution: \$2,225,000**  
**Total project value: \$4,450,000**  
**Annual GHG reduction: 22,080 tonnes/yr**

Quantiam Technologies Inc. develops and commercializes innovative materials solutions from the small world of nanoscience and nanotechnology to achieve significant energy and emissions reductions in key industry sectors, and to improve performance in extreme wear and corrosion operating environments. The company has developed world-class technologies based on advanced engineered materials, coatings and surfaces for internal surfaces and is successfully commercializing disruptive new products for the petrochemical sector and other chemical process industries. Quantiam is a privately held company founded in 1998 and is currently constructing a new 35,000 square foot advanced research and manufacturing facility located in the Edmonton Research Park, representing one of Canada's first such facilities capitalizing on advances in nanotechnology. Quantiam has increased staffing from 12 to 23 over the last year, and is projected to reach ~36 by the end of 2011. Its products are exported globally.

Quantiam has developed disruptive new nanomaterials-based coating technology enabling the "Catalyzed-assisted Manufacture of Olefins (CAMOL)" in one of the world's most extreme operating environments. Already commercialized is CAMOL Generation-1 technology, proven with a conservative catalyst coating in a full furnace trial in Europe showing major reductions in the energy required to produce olefins (ethylene and propylene) from naphtha feedstock with commensurate reduction in carbon dioxide emissions. The olefins industry consumes approximately 3 billion giga-joules of energy per year and emits more than 125 million tonnes of carbon dioxide worldwide. Alberta has a total of five petrochemical plants and some of the most energy efficient olefins furnaces worldwide. The new project being funded by CCEMC proposes to advance CAMOL technology to Generation-2 for ethane crackers. The G-2 technology will be tested in a world-class ethylene furnace in the province, and with success, will position Alberta to lead the world in energy efficiency and greenhouse gas emissions reductions in the manufacture of olefins using ethane feedstock.

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