



Case Study Cansolv Technologies Inc.

About Cansolv Technologies Inc.

Cansolv Technologies Inc. (CTI) is a technology-centered company founded in 1997 that specializes in the reduction, control or trapping of industrial gas emissions. CTI has developed and marketed products that deal specifically with the reduction of sulphur dioxide (SO₂), nitrogen oxide (NO_x) and carbon dioxide (CO₂) emissions.

Issue

Industrial gas emissions are a major contributor to a variety of environmental problems. It has been scientifically proven that sulphur dioxide (SO₂) and nitrogen oxides (NO_x) are the primary causes of acid rain. Most of these emissions come from electric power generation plants that burn fossil fuels like coal, but many factories also emit these gases. Carbon dioxide is the single largest contributor to the greenhouse gas effect, and thus to global warming. The reduction of these industrial emissions into the atmosphere is now a global environmental priority.

Cansolv has developed and marketed several solutions for gas emissions. SO₂ Cansolv is a process that safely removes and recovers the sulphur dioxide that would be otherwise emitted with the chimney stack effluent. This process is of particular interest in the US where SO₂ emissions are strictly monitored and where companies that have reduced emissions can sell their emission credits to companies that haven't. The new CO₂ Cansolv process is a low-cost, effective means of capturing CO₂ greenhouse gas emissions from industrial flues. The gas captured is 99.9999% pure CO₂, which means it can be recycled for use in the petroleum, pulp and paper, and agrifood industries. The Cansolv Multipollutant process removes a combination of Sulphur Dioxide, Nitrogen Oxide, and Mercury.

Action

There are three projects with which Enviro-Access has helped CTI.

- In 1997 the company completed extensive research and development of wet NO_x, mercury and CO₂ absorption processes.
- In 2004, CTI built a new state of the art pilot plant to complete pre-commercial testing of the CANSOLV® Multipollutant (SO₂-NO_x-Mercury) Absorption System.
- CTI has developed and is marketing a CO₂ absorption and capture system.

In each case Cansolv required assistance to secure financing for testing and pilot projects. Enviro-Access helped them produce a business plan that enabled them to secure \$1.3 million in financing. They provided assistance in providing adequate



documentation for potential investors and the government, and worked with Cansolv to calculate the beneficial environmental impacts of the project.

Results

The results have been outstanding for the company, which has grown and expanded its workforce considerable in the past few years. The Multipollutant product is now ready to market. The CANSOLV SO₂ scrubbing technology is now in use in Noranda's smelter operations in Quebec, at a chemical manufacturing complex in Belgium, at ConocoPhillips' Refinery in Los Angeles, at a BP Refinery in Washington state and at a smelter in India.

The company now has offices in Canada and China.

Next steps

The next steps for Cansolv involve the marketing of the CO₂ capture system and the NO_x technology. The company is also working on new clean coal burning products which will offer a full range of technologies to the power industry. In addition Cansolv is continually improving the already marketed technologies. The company is also working on expanding its presence in other parts of the world, including Asia and South America.



"Enviro-Access and its team of professionals bring to Cansolv an expertise that is essential to the development of the business." - Marcel Ayotte, President – Cansolv Technologies Inc.



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