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THE DURAMMO EDITION

**CATHODIC PROTECTION
OF WELL CASINGS**

BRINGING DURAMMO TO CANADA

**DURAMMO SYSTEM EVOLVES
WITH TIME**





Canada is the United States' leading trade partner, a fact that is evident when considering the demand for oil and natural gas. While drilling activity has increased on both sides of the US-Canadian border, the U.S. has greatly increased its Canadian imports. CNN reports that imports of oil from Canada's oil sands are poised to jump more than 300 percent over the next 10 years. By 2020, the U.S. is expected to import almost 10 percent of its total oil consumption from Canada's oil sands, with more than 1.5 million barrels reaching the U.S. each day according to data from the Sierra Club.

An increase of this magnitude will require a major investment in energy infrastructure, and will spur a wave of new projects to safely and efficiently transport

the needed oil from the North to the South. This means more wells, terminal facilities, major pipeline and refining infrastructure on both sides of the border, but specifically in Canada.

Poised to service this growing market, MATCOR, recently announced the establishment of their new wholly owned Canadian subsidiary, MATCOR Canada, Inc. The strong concentration of oil and gas in the western provinces of Canada coupled with the belief that the energy and power segments could benefit from its turn-key solutions prompted MATCOR to open its first office in Calgary, Alberta, located within the Global Business Centre at 120 8th Avenue SE, Calgary. With it comes the introduction of Durammo™, the industry-leading Deep Well Anode System, as well as MATCOR's full suite of cathodic protection solutions to the Canadian market.



Bringing Durammo™ To Canada

Written By Joe Fournet

The opening of MATCOR's Calgary office is just the beginning...

As the Canadian oil and gas business continues to grow, our neighbor to the north is increasingly looking west to access world markets and become a major player in the supply of crude oil to countries seeking to import. Canada, with the third-largest proven oil reserves in the world, has so far only had one major export partner for its oil sands crude, the U.S.

Led by China, Asia has expressed a strong interest to invest in upstream and midstream facilities in the Canadian market to develop a reliable supply of oil to address its ever-growing domestic energy requirements. Recent investments by state-owned Chinese companies in the Canadian markets have topped \$15B, and the current CNOOK/NEXEN deal underlines the importance of this growing relationship between both countries.

However, while growth in Canada's oil sands is increasing, it is the planned and existing oil and gas infrastructure that is of concern to regulators, customers and the public alike. Canada has an estimated 512,600 miles of existing pipelines and plans for 3,400 miles of new construction. This goes hand in hand with thousands of existing and newly planned storage tanks and power (i.e., electrical generation) required to support the increased production output.

Furthermore, Canada has nearly 200,000 existing oil, gas, dry and servicing wells plus 1,600 new wells are expected for 2012. This infrastructure needs to be protected to prevent accidents and spills that could lead to environmental catastrophes, as well as to ensure these assets continue to produce and generate the required returns on investment.



MATCOR Canada, Inc • 120 8th Avenue SE, Calgary, AB T2G 0K6 • Tel: 800 559 9135

Protecting assets against corrosion, including aging pipelines, storage tanks and well infrastructure, as well as new-builds, are a key focus for MATCOR. Their mixed metal oxide (MMO) cathodic protection technology offers improved, longer-lasting solutions to the market with lifetimes of 30-50 years, sometimes more than twice that of older corrosion protection products used by some in the marketplace.

MATCOR's Senior Director of Business Development Knut Fenner, who leads MATCOR's Canadian business, stated: "The growth of the Canadian oil sands business along with the resulting need for corrosion protection, provides a significant opportunity to bring MATCOR's full suite of cathodic protection products and services to the Canadian market. The turn-key solutions MATCOR delivers will enable this important region to benefit from our proven products including our SPL™ Linear Anode (for pipelines and above-grade storage tanks), The Mitigator™ (our AC Mitigation product), Durammo™ (our Deep Well Anode System), and other MATCOR innovations, and will help protect the Canadian energy and power infrastructure from corrosion today, and for many years into the future".

DURAMMO HIGHLIGHTS INCLUDE:

- Mixed Metal Oxide (MMO) anode technology offers significantly longer life than comparable conventional discreet anode systems reducing the time between anode bed replacement cycles.
- Dual feed cabling design assures anode system integrity by providing redundant current paths. No single cabling failure can adversely affect the system performance.
- All cabling is chemically resistant dual extruded HMWPE/Kynar™ suitable for harsh chloride laden environments.
- MATCOR's unique SuperVent™ technology provides clog proof venting that is 25 times more effective than typical All-Vent micro slotted vent pipe.
- Completely factory assembled and tested the anode system requires no field fabrication and arrives at the site ready to be lowered into place within 90 seconds.
- Eliminates the need for a junction box.
- Lower weight reduces freight and handling costs.

MATCOR's Durammo™ System positions them extremely well for Canada's infrastructure and pipeline needs. The Durammo™ Deep Anode System represents the culmination of 35 years of MATCOR continuous wire deep anode system engineering experience.

"We are eager to introduce our Durammo™ MMO deep well product to the market and help customers save money while greatly extending the protection of their assets," adds Fenner. 