



Experience Industrial Innovation



Alberta Circular Plastics Day 2026

Session 2: Innovation - Featuring the latest in plastics research and innovation across the industry

Brian Van Vliet, P.Eng.

11:30am-12:30pm, March 11, 2025

About Spartan

- Spartan's story started in Alberta but quickly grew to a substantial presence across BC and SK.
- For more than 60 years, Spartan has been driving innovation, growth and job creation, contributing to Alberta's success story and building the groundwork for a new generation of prosperity.
- Local Impact Partner of Emerson Automation Solutions for Western Canada



Creating a Sustainable Modern World with Innovative Automation

Automation Solutions powering Industry and Innovation and Growth Across:

- Oil and Gas
- Oil Sands
- Power
- Chemical
- Mining
- Pulp and Paper
- Pipelines
- Water/Wastewater
- Food & Beverage
- Building Tech
- Life Sciences

60+ years
in business

Over 1,400 Spartans

24/7
Customer Support

14 locations

A belief that drives
our culture

Creating a **sustainable**
modern world with
innovative automation

Environmental Principles of Emerson

Roles and Responsibilities

GHG Emissions

Risk Management and Auditing

Energy Efficiency

Training

Renewable Energy

Water Management

Air Emissions Management

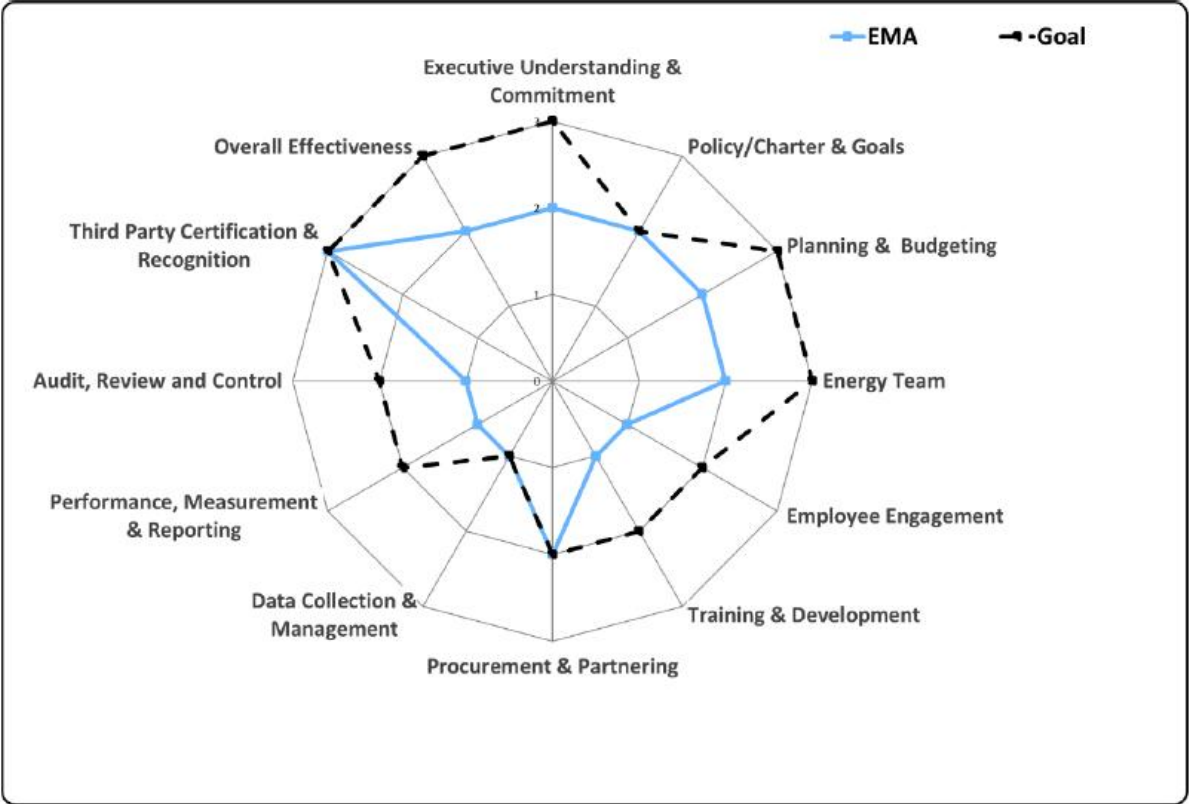
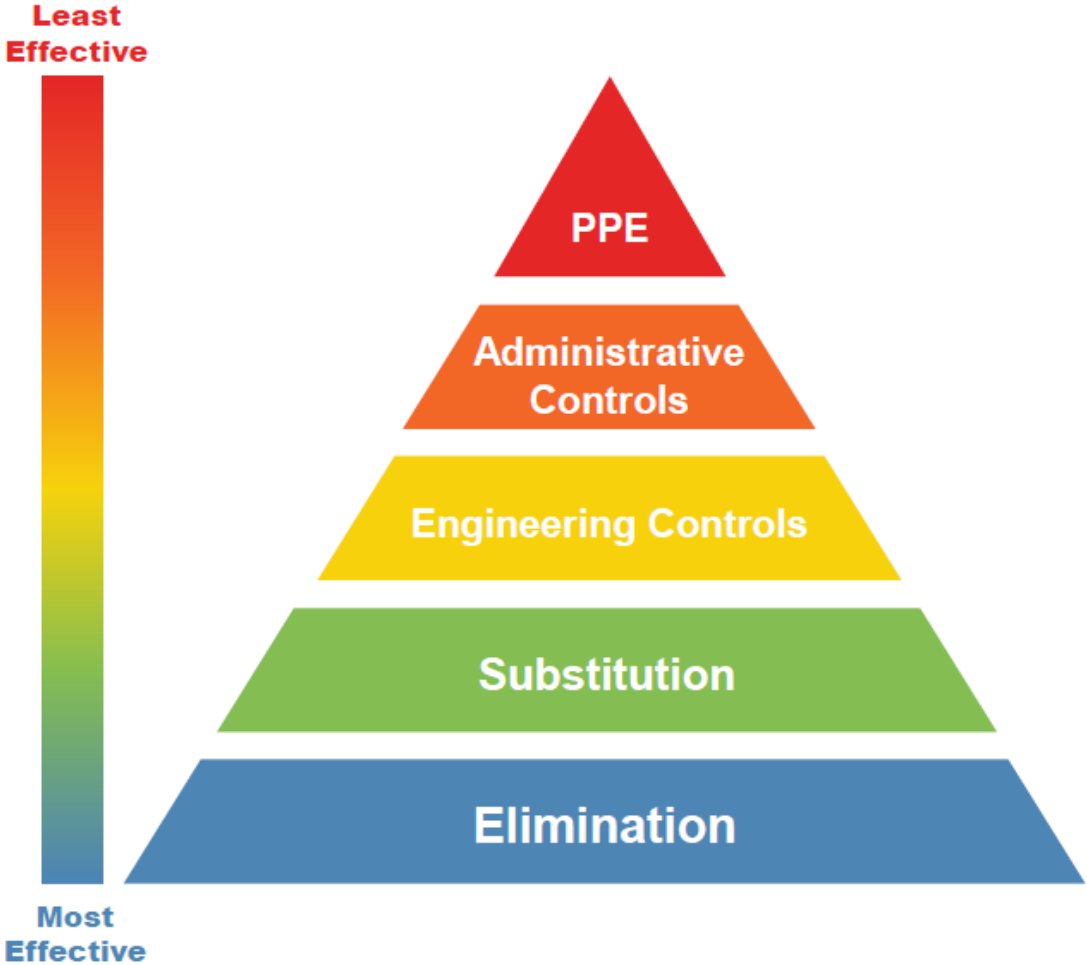
Waste Management

Materials & Chemicals



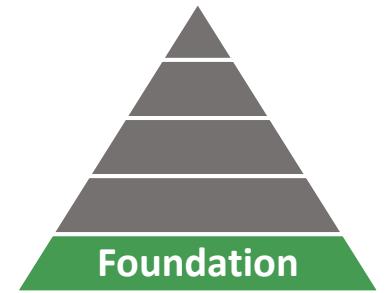
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Hierarchy of Controls – How Do We Control Risk?





What's Your Vision?



Reduced Consumption

Expanded Waste & Recycling Streams

Education & Awareness Program

Increased Visibility & Accessibility

Desk-Level Recycling Support



Looking Ahead

- One step at a time
- Strengthen sustainability efforts
- Improving waste diversion
- Encouraging more thoughtful consumption
- Building habits and systems
- Measuring our progress

Creating a Sustainable Modern World with Innovative Automation

Drinking Water Dispenser at Offices and Shop Floors



- Initially small plastic drinking water bottles were issued to the employees to drink

Living Lab Energy Conservation Highlight - Office of Sustainability, University of Saskatchewan



Substitution

- Water dispenser and reusable bottles
- Help to eliminate the usage of plastic bottled drinking water and reduce the plastic waste

“Embedded energy of bottled water sold at the University of Saskatchewan can range from 3.4 to 4.0 MJ per litre, while municipal tap water weighs in at a mere 0.003 MJ per litre.”

The Great Tape Debate - Why Spend \$5k more per year?

Water Activated Tape (WAT)

- Is made of paper which is a natural, renewable product
- Adhesive is natural as well.
- Can be recycled and re-pulped along with the boxes it is adhered to, without any time-consuming stripping.
- Adhesive also bonds to a corrugated box better, especially if the box is under-filled.

Why 90% of our tape will now become Kraft tape out of our Edmonton facility:

- Better adhesion and therefore a better experience for our customer
- Looks more professional
- Efficiency gain with the kraft tape dispensers
- More ergonomic for the users
- Environmentally friendly



Substitution



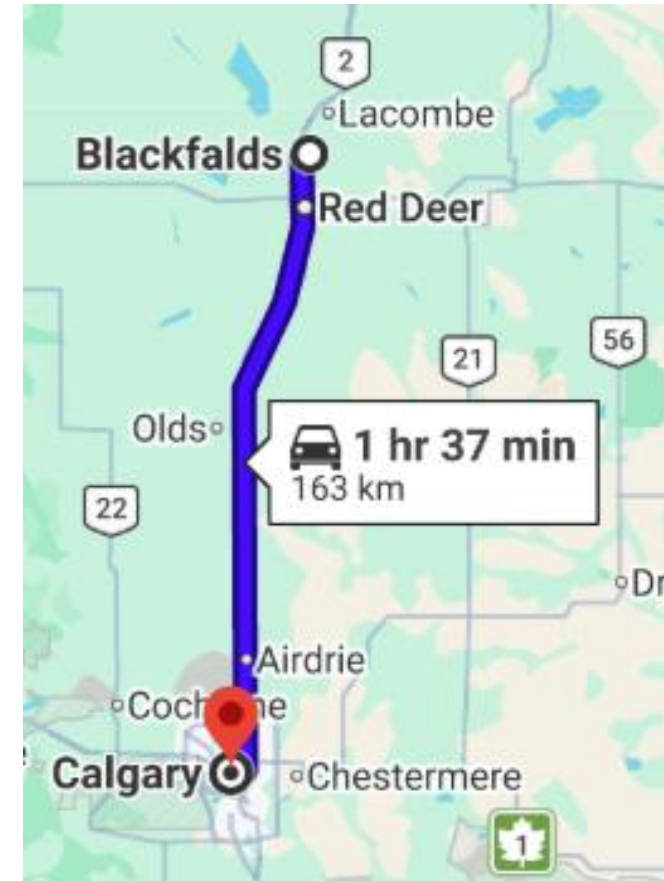
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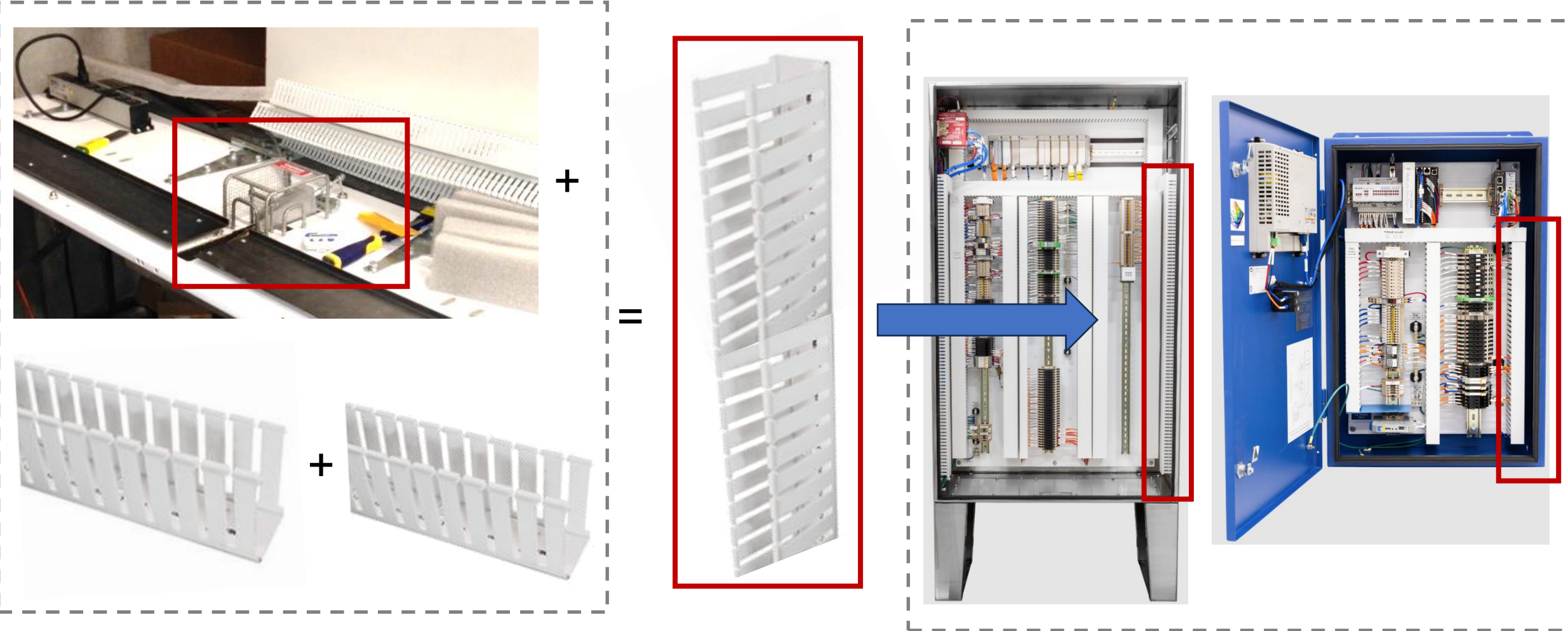
540,000 Feet = 164.6 kilometres

Plastic Handling in Fabrication

- Cut/strip and large harness machine
 - Less wire and insulation waste with automated wiring prep
- Floor runs on a bin system with plastic, metal, wire and general garbage sorted
- Plastic is combined into larger bundles and recycled
- “Hard plastic” is also sorted and sent to recycling company



Reducing Panel Wiring Channel Waste

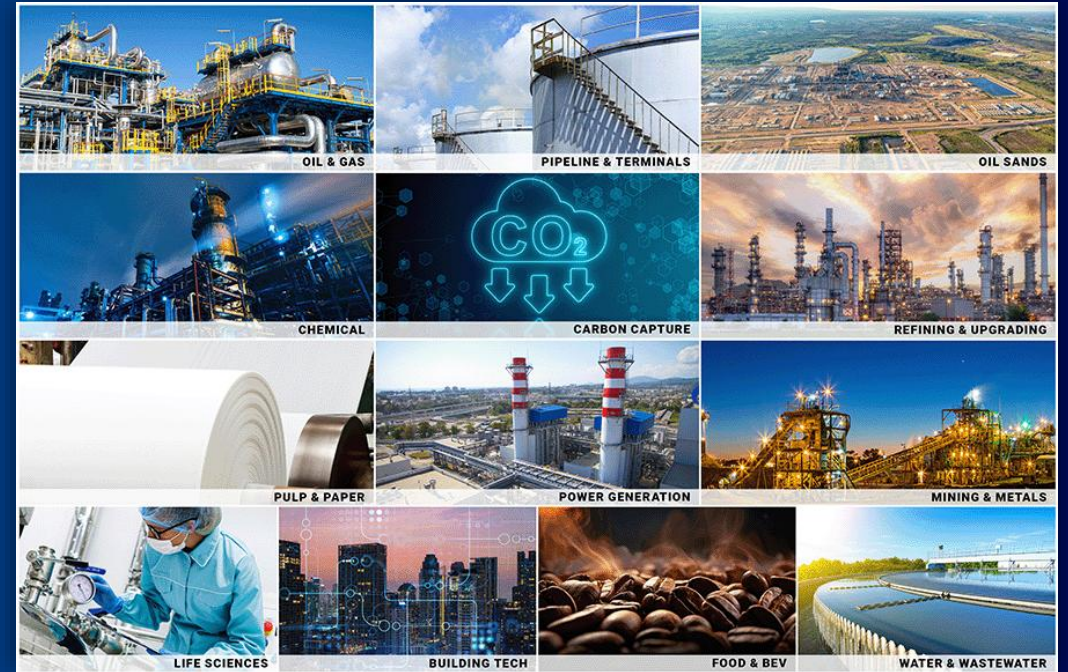


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Join the conversation...



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