

How Ivaco Rolling Mills used **INCENTIVES TO SUPPORT INNOVATIVE SOLUTIONS**

A world-class producer of hot rolled wire rod and continuous cast steel billets, Ivaco Rolling Mills is located on the banks of the Ottawa River in L'Original, Ontario. Ivaco stands out for its commitment to health and safety, conservation and environmental protection. With the help of Save on Energy incentives, they upgraded multiple industrial systems for nearly **\$1.5 million per year in projected cost savings.**





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FINANCIAL INCENTIVES

allow us to plan our capital expenditures far in advance and roll one project into the next."

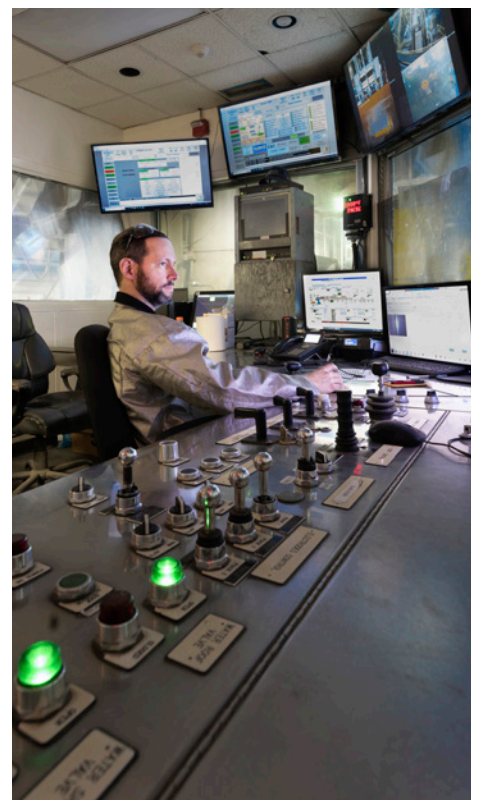
FRANCOIS ABDELNOUR

Energy Director,
Ivaco Rolling Mills

IN ENERGY-INTENSIVE INDUSTRIES, there are no quick fixes. Upgrade projects often involve complex feats of engineering and millions of dollars in capital.

This is where energy managers come in as experts at creating strategies, budgets and business cases for energy-efficiency improvements. They also help industrial customers liaise with Save on Energy to access financial incentives, training and more.

"The biggest challenge for these projects is getting the capital and the buy-in," said Francois Abdelnour, Energy Director at Ivaco Rolling Mills.



**REWRITING THE
PLAYBOOK
WITH INNOVATIVE
SOLUTIONS**

Ivaco's main project involved recovering heat from furnace off-gases and using it to preheat scrap metal on Consteel®, a continuous pre-heating conveyor system. Preheated scrap requires less electrical input to melt, leading to huge gains in energy efficiency.

As well, the addition of variable frequency drives (VFDs) boosted the efficiency of a new, higher-capacity baghouse system for collecting dust. Because the VFD motors only run as needed and adjust automatically based on predetermined setpoints, they save energy, tune furnace combustion and control emissions.

**REACHING NEW
HEIGHTS IN
EMISSION CONTROL**

"From an engineering standpoint, there's no precedent for a solution like this," said Abbas Gholipour, Energy Manager at Ivaco Rolling Mills. "Since then, we've seen others in the industry take our emission control system and implement it at their own plants. It was a true team effort and

we're very proud of what we've achieved."

Other energy-saving upgrades included swapping old lighting fixtures for LEDs, adding VFDs to melt shop compressors and participating in a demand response program by ramping down production when demand on the grid is high.

BY THE NUMBERS

**Consteel® scrap
pre-heating**

\$4,988,000

Total incentive

21,700 MWh

Total annual electricity savings

2.2 MW

Total annual demand savings

\$1 million

Expected total annual
cost savings

8 years

Expected project payback



BY THE NUMBERS

BAGHOUSE FANS VFDs

\$549,000

Total incentive

3,100 MWh

Total annual electricity savings

\$150,000

Expected total annual
cost savings

2.5 years

Expected project payback

MELT SHOP COMPRESSOR VFDs

\$180,000

Total incentive

1,600 MWh

Total annual electricity savings

\$90,000

Expected total annual
cost savings

3 years

Expected project payback

LED LIGHTING CONVERSION

179,000

Total incentive

3,600 MWh

Total annual electricity savings

\$175,000

Expected total annual
cost savings

2.5 years

Expected project payback



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I THINK MANY COMPANIES ARE LOSING MONEY because they're not managing their electricity costs. It's a challenging job, so it's important to have someone dedicated to the task."

ABBAS GHOLIPOUR

Certified Energy
Manager,
Ivaco Rolling Mills

INCENTIVES AND RESOURCES FOR ENERGY-EFFICIENCY PROJECTS

Drive down operating costs and maximize return on investment (ROI) with the help of Save on Energy's suite of programs. We support customers across Ontario in improving their industrial processes and implementing system optimization projects. Eligible projects will deliver electricity savings using proven commercial technologies to lower energy consumption and reduce electricity bills.

Ready to transform your industrial processes?

Contact us today to get started.

saveonenergy@ieso.ca

saveonenergy.ca/For-Business-and-Industry/Programs-and-incentives



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