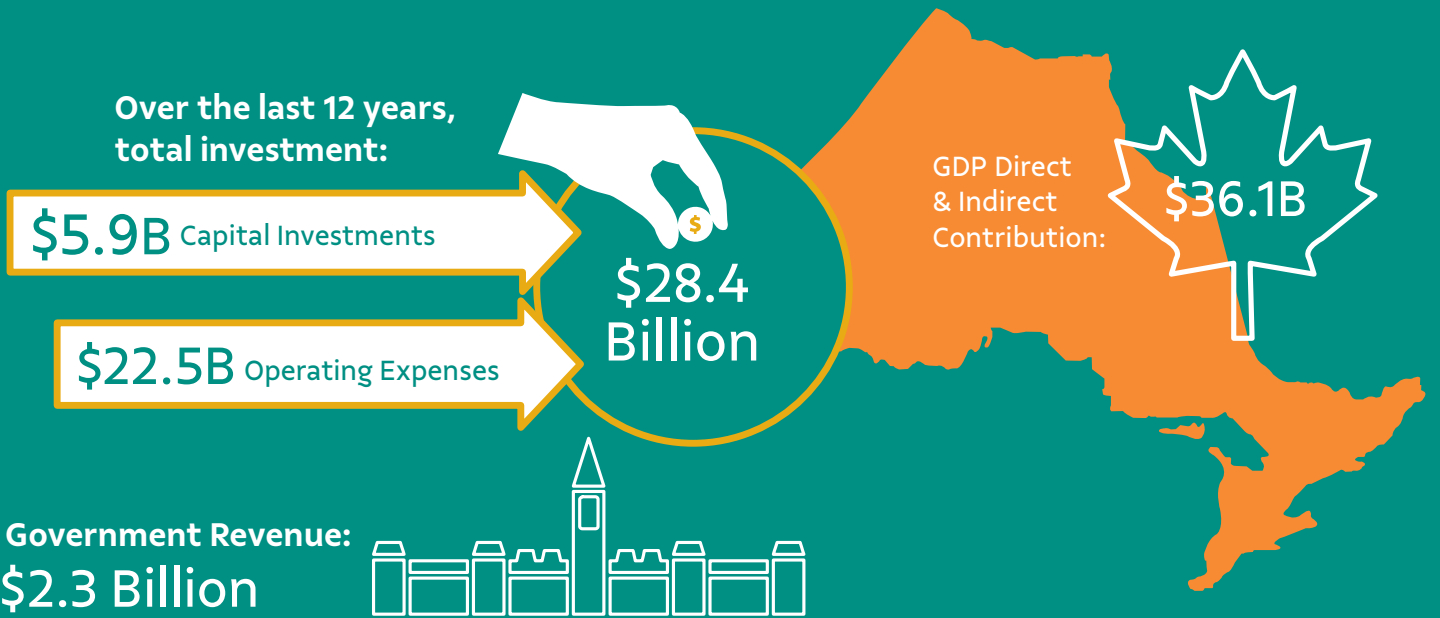


# Transforming the future — Vale in Ontario

Ontario is home to Vale’s global Base Metal Headquarters, our Technology Development Centre in Mississauga, as well as our Port Colborne and Sudbury Operations. With five mines, a mill and smelter in Sudbury as well as a refinery in Port Colborne, Vale’s Ontario operations are among the world’s largest integrated mining complexes. We produce low carbon nickel and copper as well as cobalt, platinum group metals, gold and silver.

## Vale’s Economic Contribution

Vale is proud to call Ontario home — investing in safe, responsible, and sustainable mining that contributes to a strong Canadian economy.



## Employment Legacy:

We are proud to provide stable, well-paying jobs in the communities where we operate, employing a team of dedicated, high-performing people.



in labour income over the past 12 years.

Job Creation:  
**13,700**

Jobs/year across Ontario



\*Annual average jobs created directly and indirectly over the past 12 years.

## In 2020:

Vale directly employed:

**4,420**

people across Ontario



**\$820M**

in total wages



Average salary

**100%**

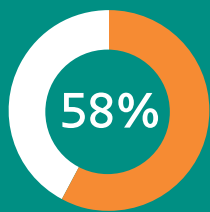
more than the provincial average



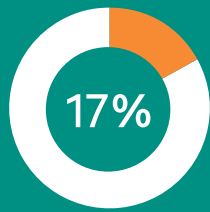
Vale’s direct share of Ontario’s mining sector GDP

## Production Contribution:

Our Base Metals operations help Canada rank as the 6th largest nickel-producing country and the 11th largest copper-producing country in the world. Our Copper Cliff Nickel Refinery in Sudbury, Ontario produces some of the purist nickel products in the world.



of all nickel produced in Canada in 2020



of all copper produced in Canada in 2020

Came from a Vale operation

## In 2020, in Ontario we produced:



43,300 tonnes of nickel



93,000 tonnes of copper

## Low Carbon Nickel and Copper

A largely carbon free electricity grid in Ontario and Vale's own 55 megawatts of hydro generated power allows Vale's Copper Cliff Nickel Refinery to produce a Class 1 nickel product with one of the lowest carbon footprints in the industry. In April 2022, Vale received independent, third party verification of our nickel powders, pellets and copper products being among the lowest carbon emitting in the world.

**Fact:** More than two-thirds of the world's nickel is used to produce stainless steel.

**Fact:** Copper is the third most-used metal in the world.

## Social & Environmental Leadership:

At all times, we strive to be a catalyst for social and economic growth, respectful of the environment we are privileged to share across Canada.



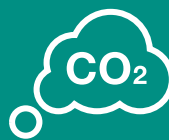
**100%** of our Base Metals sites have completed human rights impact assessments.



**In 2021:**  
**\$360K** collectively raised for the United Way Campaign in Sudbury.



**47** we have 47 battery electric vehicles in service at our Canadian operations.



**\$1 billion** Clean AER Project at Copper Cliff Smelter Complex. In 2020, Vale spent approximately \$1.84 billion in operating expenditures to support its business operations in Ontario.



**1st ever** Indigenous Foundations cultural awareness training course available to all Canadian employees.



**\$50,000** (approx) in Scholarships and Bursaries offered at Cambrian College and College Boreal that encourage careers in the trades, which are in high demand at Vale.

## Did you know?

Vale has donated \$250,000 annually since 2010 to the City of Greater Sudbury's Biodiversity Action Plan to address the risks to plant communities and wildlife habitat identified by the Sudbury Soil Study ecological risk assessment.



**\$100K & 100 tons** of food jointly donated to the Edgar Burton Christmas Food Drive in Sudbury with Wheaton Precious Metals.