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ELECTRIFICATION BUSINESS AREA

# Electrifying Canada

in a safe, smart and sustainable way

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# ABB Canada at a glance

National collaboration enables a more sustainable and resource-efficient future



ELECTRIFICATION

MOTION

PROCESS  
AUTOMATION

ROBOTICS + DISCRETE  
AUTOMATION



33

Locations coast  
to coast



~ 3 200

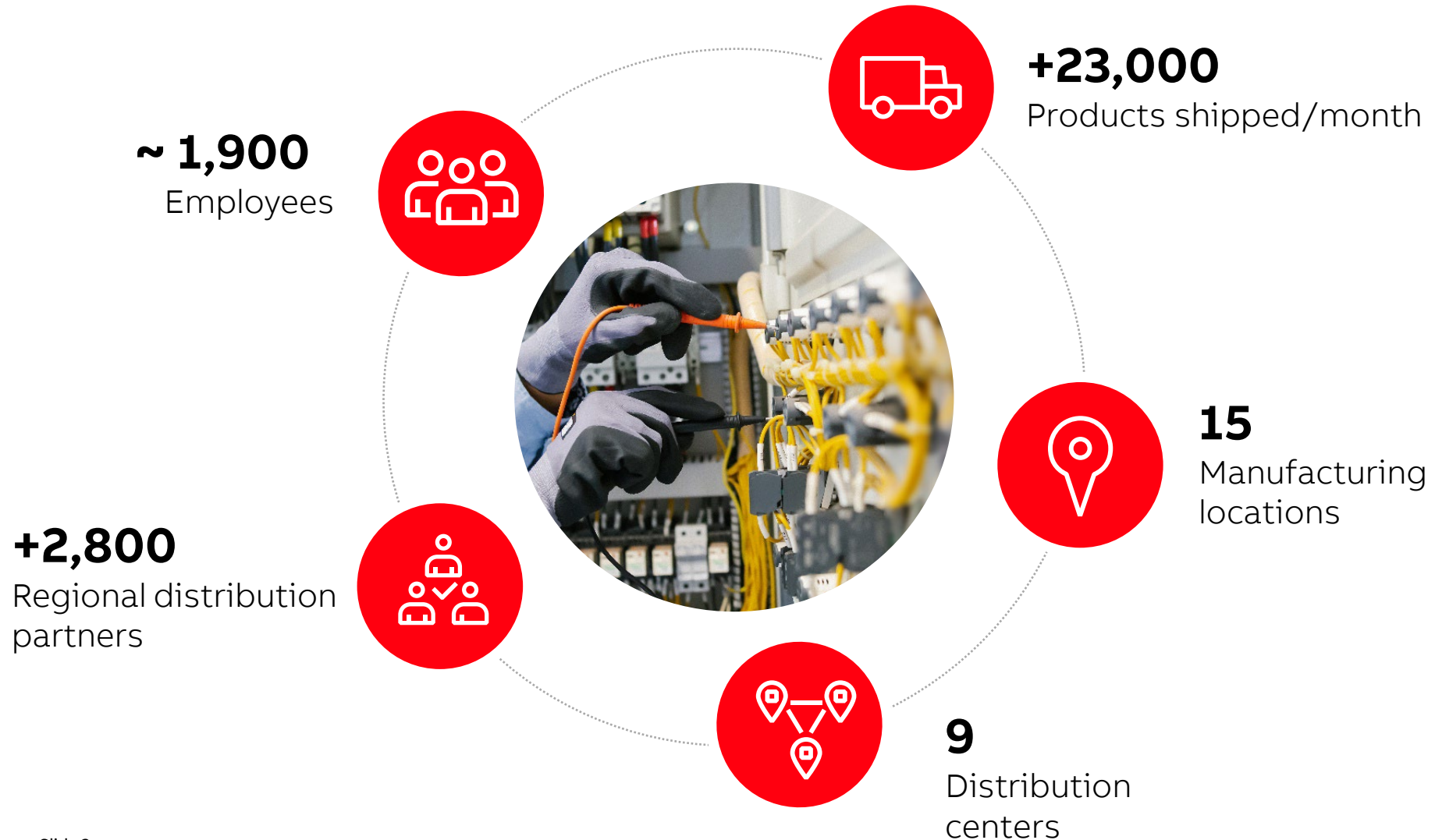
Employees



100+

Years of innovation  
in Canada

# ABB Electrification in Canada: from source-to-socket





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# Electrification in Canada

Electrifying the world in a safe, smart and sustainable way, ABB Electrification in Canada is a technology leader in electrical distribution and management from source to socket.

As the world's demand for electricity grows, our 1,900 employees across the country collaborate with customers and partners to transform how people connect, live and work.

We develop innovative products, solutions and digital technologies that enable energy efficiency and a low carbon society across all sectors.

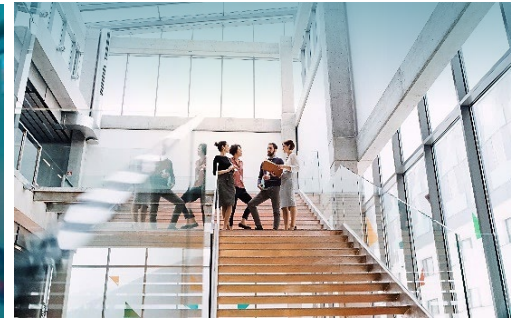
By applying global scale with local expertise, we shape and support global trends, deliver excellence for customers and power a sustainable future for society.





# Electrification's five divisions

Helping to solve our customers biggest cross-industry challenges



## DISTRIBUTION SOLUTIONS

Segment specific medium-voltage switchgear and components as well as solutions that protect, control and facilitate efficient and reliable distribution of electric power strengthening the resilience of the grid.

## SMART POWER

Energy distribution solutions that include the ABB Ability™ Energy Manager, industrial breakers, UPS solutions, motor starting applications, and essential safety devices such as switches and relays.

## SMART BUILDINGS

Energy distribution and home and building automation products and solutions, energy management and metering solutions, modular DIN-rail devices, distribution enclosures, wiring accessories.

## INSTALLATION PRODUCTS

Components to safely connect and protect in Electrification, including connectors and terminals, cable management and protection, switchgear reclosers and accessories.

## SERVICE

Extensive portfolio of services and technology for low- and medium-voltage products and networks to improve reliability, availability, predictability and sustainability of electrical systems.



# Distribution Solutions

## Offerings:

- Control & Protection Products
- Low-voltage Switchgear, Motor Control Centers & Busway
- Medium-voltage Switchgear (AIS, GIS & secondary GIS)
- Relays & Digital Systems
- Rail Infrastructure – Energy storage systems (ESS) & Traction power substation (TPSS)
- Solutions



### Ontario Line, Toronto

Solution: UniGear ZS3.2 medium-voltage switchgears, ZX2 gas-insulated switchgear, ABB Relion® relays



# Installation Products

## Offerings:

Wire & cable management

- Boxes, fittings and meter sockets 🍁
- Cable Tray, Metal framing and fastening 🍁

Cable Protection systems

- Teck and Tray cable fittings 🍁
- Rigid conduit systems 🍁
- Flexible conduit and cable protection systems
- Liquidtight systems

Power Connection & Control

- Wire termination 🍁
- Connectivity and grounding
- Switchgear and reclosers
- Cable apparatus and accessories



### REM, Montreal

Solution: T&B Cable Tray Systems® with Superstrut® metal framing and Star Teck® fittings



# Smart Building

## Offerings:

- Building Control
- Door Entry Systems
- Access Control & Security
- DIN-Rail products
- Distribution Enclosures



**McMaster University, Hamilton**  
Solution: ABB Cylon®



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# Smart Power

## Offerings:

- Breakers & Enclosures
- NEMA Enclosed Products 🍁
- Motor Starting & Safety
- Power Protection
- Switches & Fusegear



**Solutions assembled at Campus Montreal**  
Solution: ReliaGear® family solutions



# Service

## Offerings:

- Installation and commissioning (I&C) 🍁
- Training 🍁
- Spares and consumables 🍁
- Maintenance 🍁
- Repairs 🍁
- Engineering and consulting 🍁
- Upgrades 🍁
- Extensions 🍁
- Retrofits 🍁
- End of life services 🍁
- Replacement 🍁
- Support agreements (Power Care) 🍁
- Advanced services (Smart Asset Management) 🍁



**Circuit Breaker Shop, Brampton**

Solution: K-Line breaker refurbishment solution

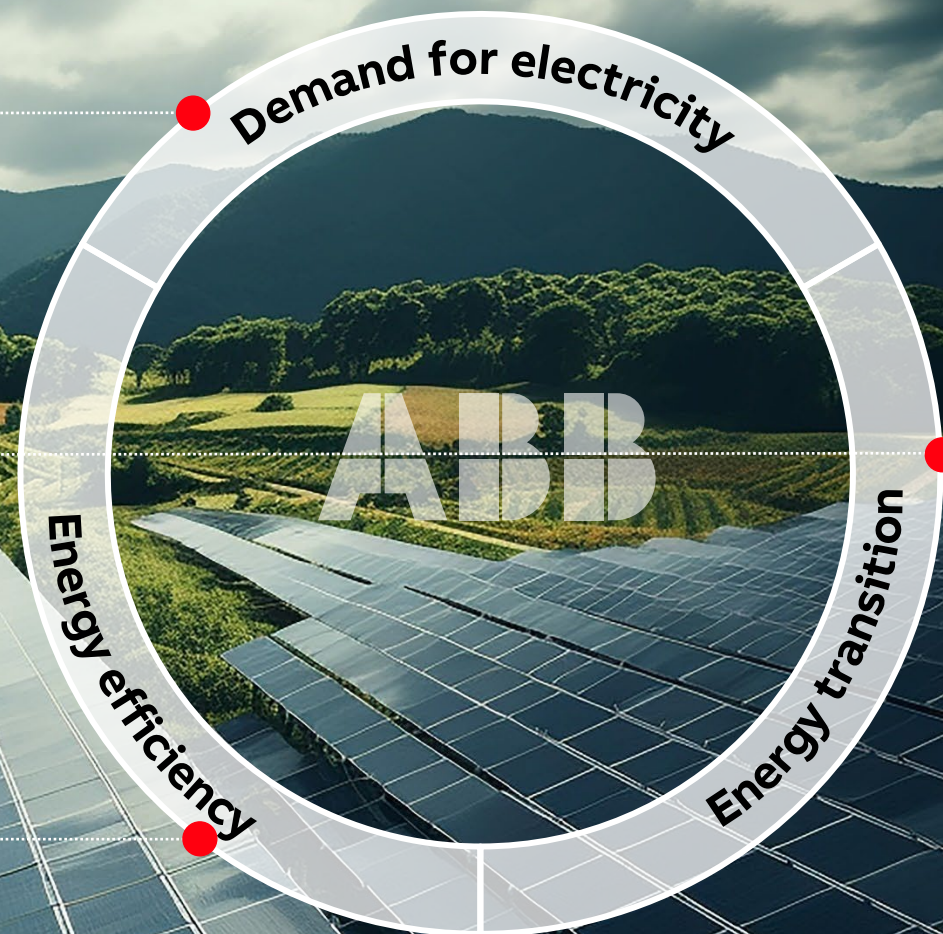


# The world needs electrification solutions more than ever

**>50% of decarbonization**  
driven by electrification  
**electricity growing >10x faster**

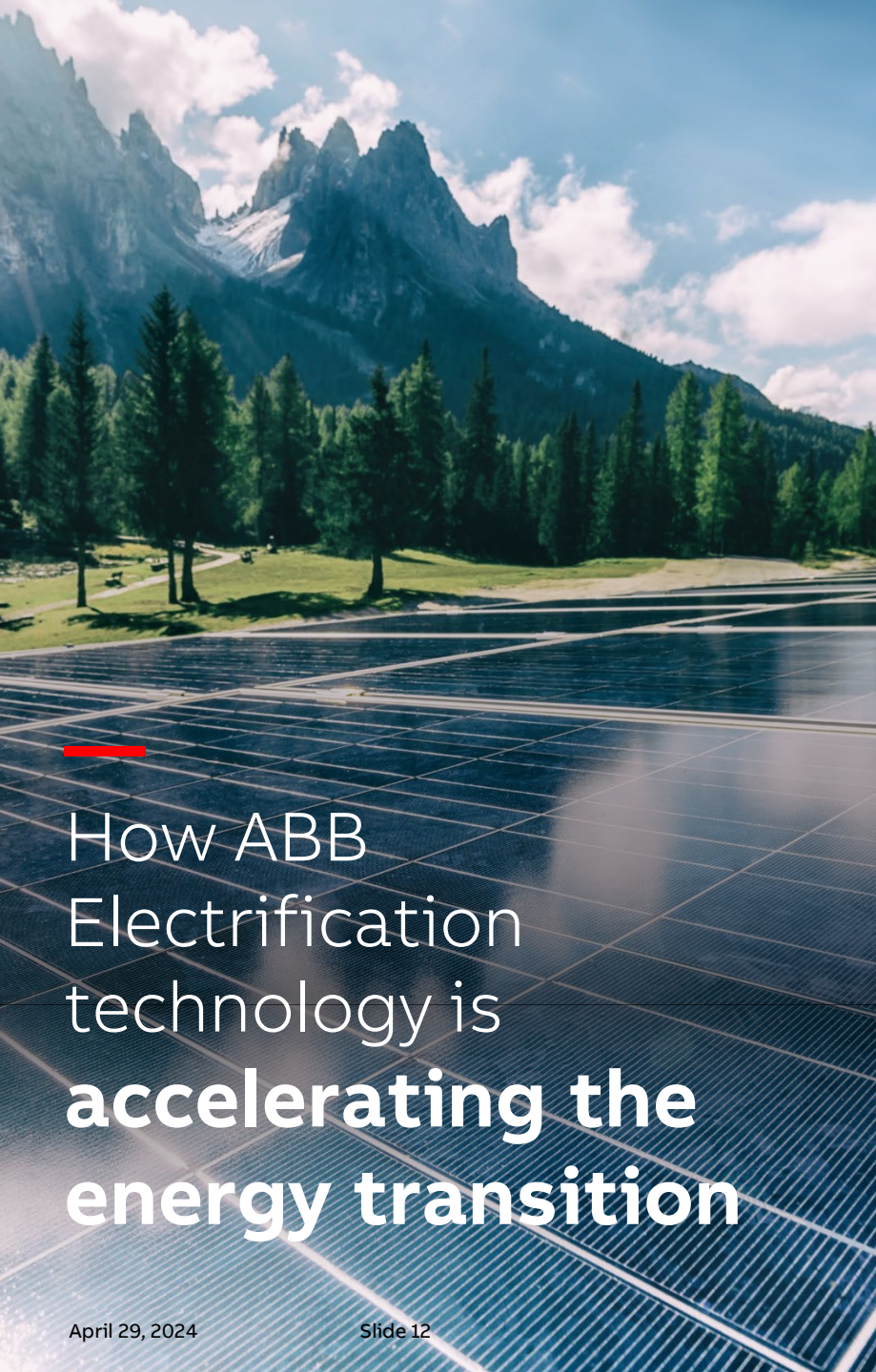
**3X more renewable integration**  
needed by 2030  
**~50% more investment**  
**in electricity grids by 2030**

**2x more energy efficiency**  
improvements needed by 2030  
to reach net-zero by 2050



Source: IEA 2023 report, McKinsey; 1. than other energy sources in 2022–30 and vs. 2016 – 2022  
Improvements needed by 2030 in order to reach net-zero targets by 2050





How ABB  
Electrification  
technology is  
**accelerating the  
energy transition**



making **net-zero  
future** a reality



integrating more  
**renewables**



increasing  
**energy efficiency**



enabling  
**decarbonization**



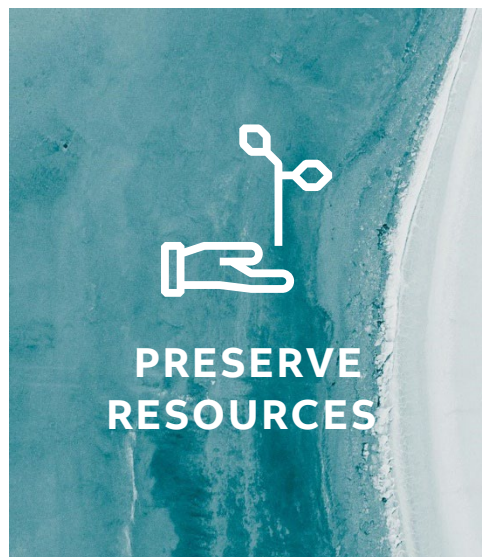
# Sustainability at ABB

Focus on a low-carbon society, resources and social progress through a culture of integrity + transparency

We are committed to reaching net zero by 2050 and to enabling our customers to avoid emissions

We embed circularity in our products, reduce waste, protect water and biodiversity, and use land responsibly

We take care of our people and promote social progress with our partners, suppliers and communities



CARBON DISCLOSURE PROJECT

## A-List 2023

Leadership in corporate transparency + performance



MSCI ESG

## AAA rating

2023 Ecovadis Gold



2030 TARGET ACHIEVED

## 80% Electrification emissions reduction

Scope 1 + 2 emissions vs. 2019





# Supporting customers in a wide range of sectors

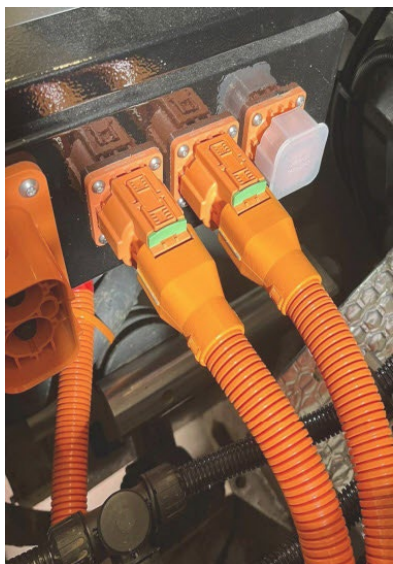




# Pioneering technology + innovation



**4200+** Patent families



**Harnessflex EVO™ connector interfaces**  
world's first full-range of hinged high-voltage connector backshells for heavy-duty EVs

**InSite system extensions**  
unlock more functions for scalable, flexible and smart energy management in buildings



**Service Assist**  
The world's first Augmented Reality (AR) powered mobile application for safe remote servicing



**HiPerGuard**  
ABB's industry-first medium-voltage Uninterruptible Power Supply



**SACE Infinitus**  
The world's first DC solid-state circuit breaker

# Collaborating to accelerate the energy transition

Partnering to help customers optimize, decarbonize and electrify their operations

**ABB**



**CUSTOMERS**



**STARTUP COMPANIES**



**TECH-FOCUSED BUSINESSES**



**UNIVERSITIES**



**CHANNEL PARTNERS**

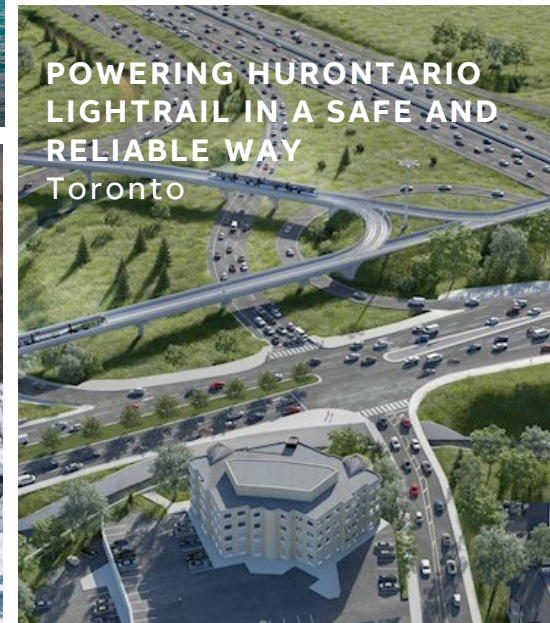
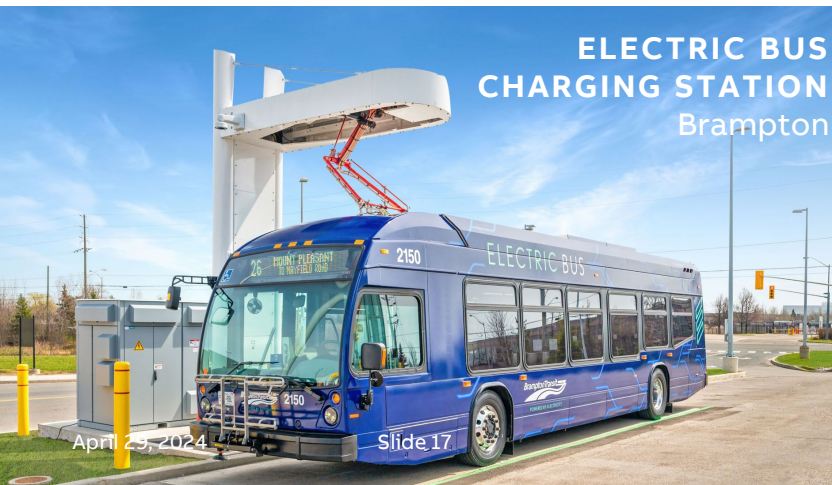


**SUPPLIERS**



# Solutions with impact across Canada

ABB Electrification's products and solutions are found from coast to coast





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**Electrifying Canada**  
in a safe, smart and  
sustainable way

[go.abb/electrification](https://go.abb/electrification)



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