

# Introduction of the Asahi Kasei Group

Presented to:  
Niagara Regional Council

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Asahi Kasei Battery Separator Canada Corp.



# Corporate Profile

Trade name

Asahi Kasei Corp.

President

Koshiro Kudo

Tokyo, Japan

¥103.4 billion

1922

49,295

Fiscal 2023 results (consolidated)\*

Operating profit   ¥2,784.9 billion  
                          (C\$26.5 billion)

Operating income   ¥140.7 billion  
                          (C\$1.3 billion)

*\* As of March 31, 2024*

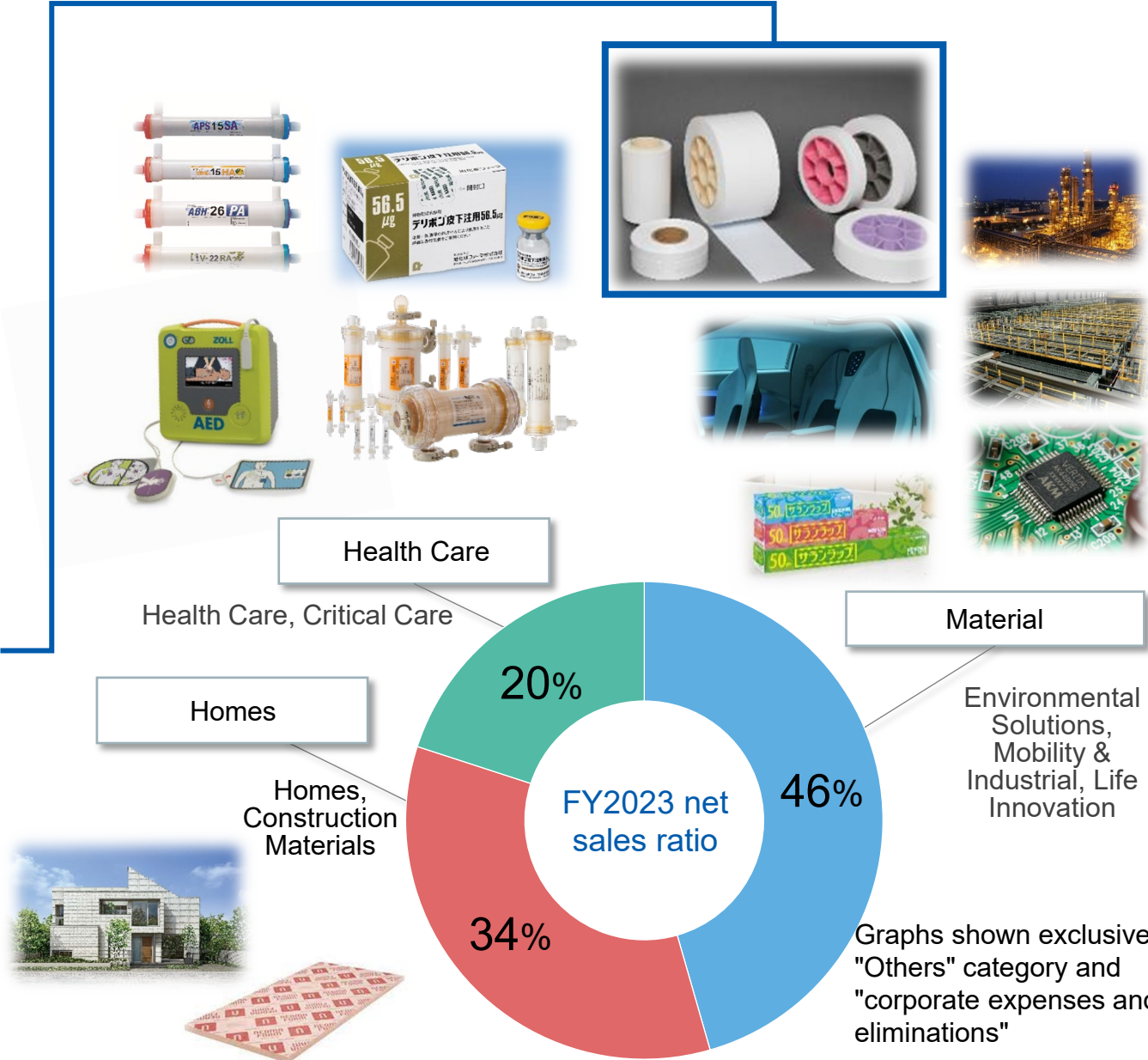
*\* ¥105 per C\$*



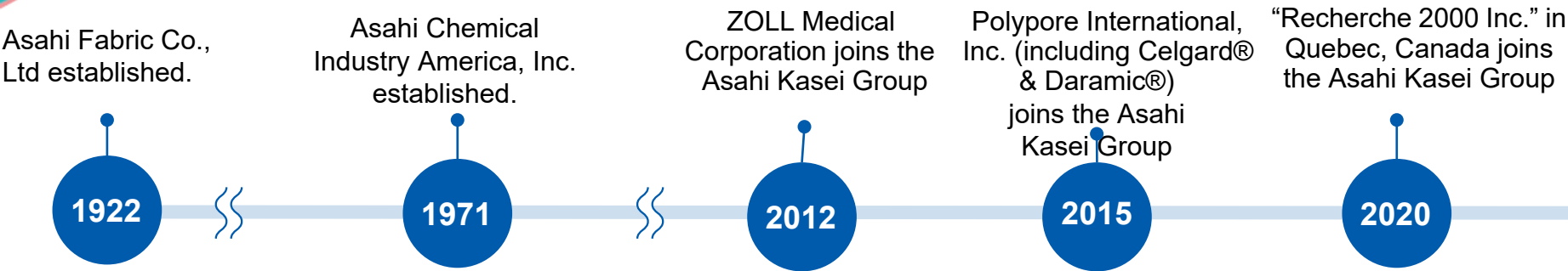
Head Office

# Company Introduction

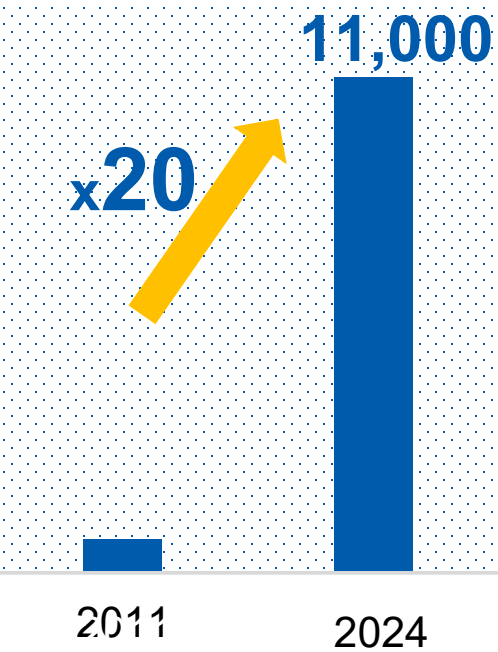
- The Asahi Kasei Group has over 100 years of experience as a diversified manufacturer with more than 49,000 employees worldwide.
- With three business sectors of Material, Homes, and Health Care, Asahi Kasei products and technologies are used all around us daily.
- We are the leading global supplier of battery separators.
- **Our Wet-Process Lithium-ion Battery Separator—with its strong technological capabilities and long history in the battery industry – is the core of our Energy Storage business.**



# Asahi Kasei: Investing in North America



Employees in North America



## M&A investment in North America 2018-2023

	Company	Completion
Material	SAGE Automotive Interiors	Sep. 2018
	R2	Feb. 2020
Homes	synergos (North American homes)	Dec. 2018*
Health Care	Veloxis PHARMACEUTICALS	Mar. 2020
	Respocardia	Apr. 2021
	itamar medical	Dec. 2021
	Bionova Scientific	May. 2022

Total  
C\$3.3 Bn



Asahi Kasei announces plans to build a lithium-ion battery separator plant in **Niagara Region**, Canada

[History of Asahi Kasei](#) | [Company](#) | [Asahi Kasei \(asahi-kasei.com\)](#)

\* ¥105 per C\$  
\* Date of acquisition of Erickson Framing Operations.



# Asahi Kasei and the Lithium-ion Battery

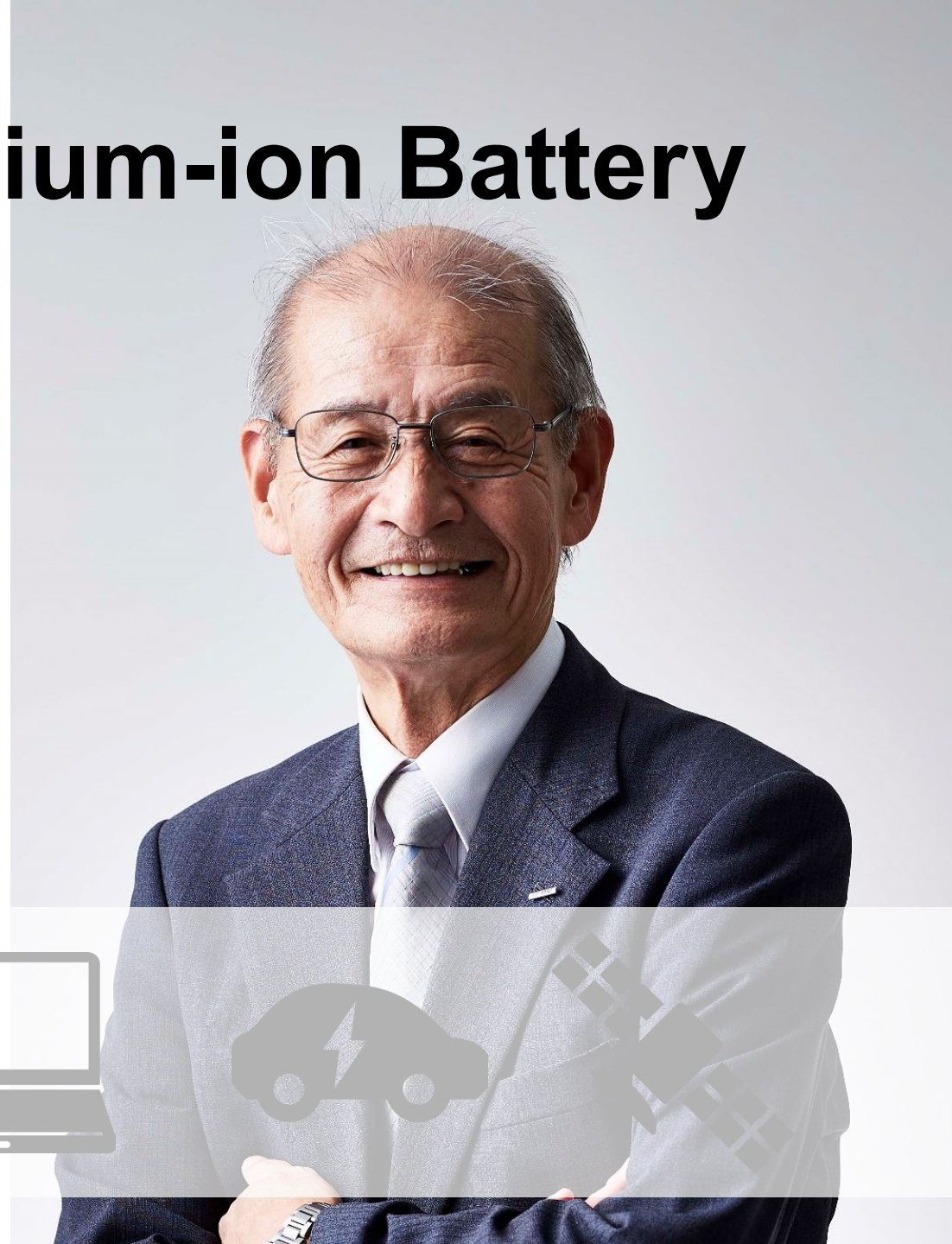
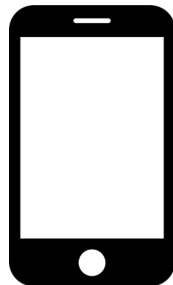
**The lithium-ion battery (LIB), widely used in smartphones, PCs, electric vehicles, and other applications, is now indispensable to daily life.**

**The LIB was invented by Dr. Akira Yoshino, Honorary Fellow of Asahi Kasei.**

In 1985, he was the first in the world to complete the basic structure of LIBs using lithium cobalt oxide (a metal oxide containing lithium-ions) as the positive electrode and carbon material as the negative electrode.

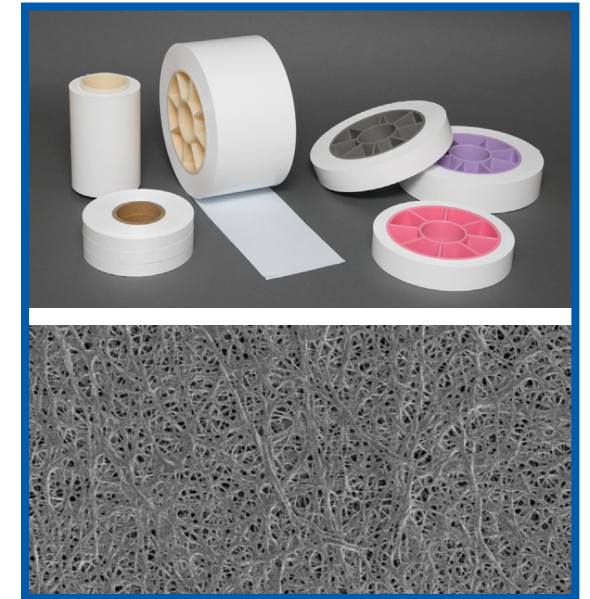
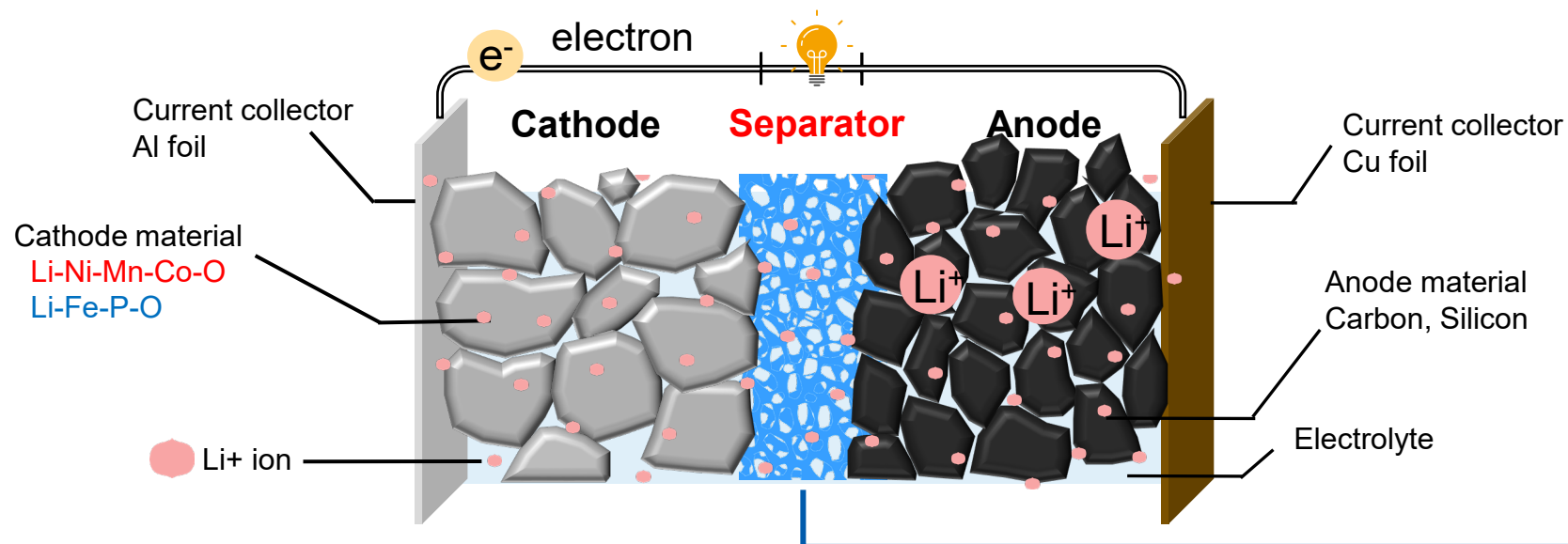
**1985**

**Yoshino completed the basic structure of the LIB at Asahi Kasei**



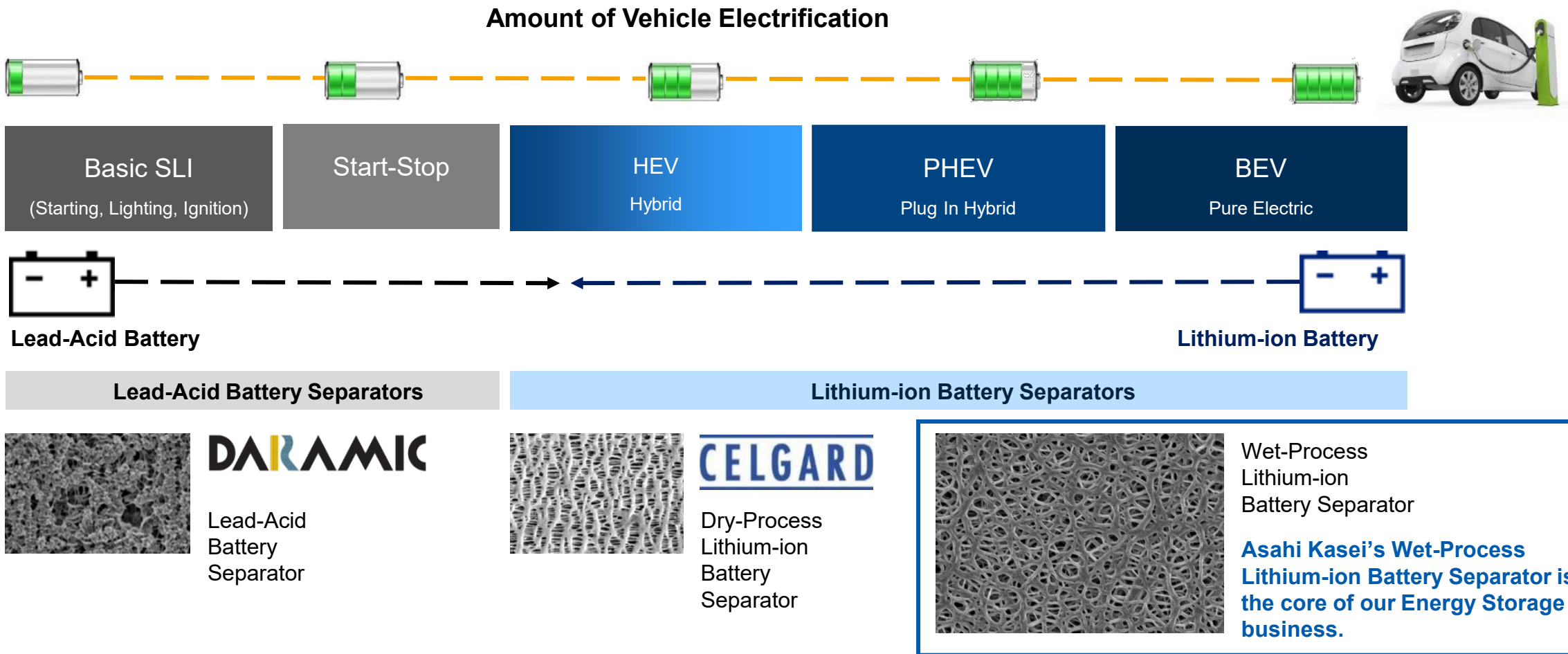
# What are Battery Separators?

- Battery separators are among the most highly-engineered components of lithium-ion batteries (LIBs)
- They play a critical role in battery safety and performance by:
  - Providing a physical barrier between the anode and cathode (the electrodes) while still allowing ionic transport/exchange
  - Shutting down the pores to stop ionic flow (electric current) when the battery is overheated
- **Asahi Kasei's Wet-Process Lithium-ion Battery Separator have been commercially available for more than 30 years and are widely recognized for their contribution to battery safety and reliability**



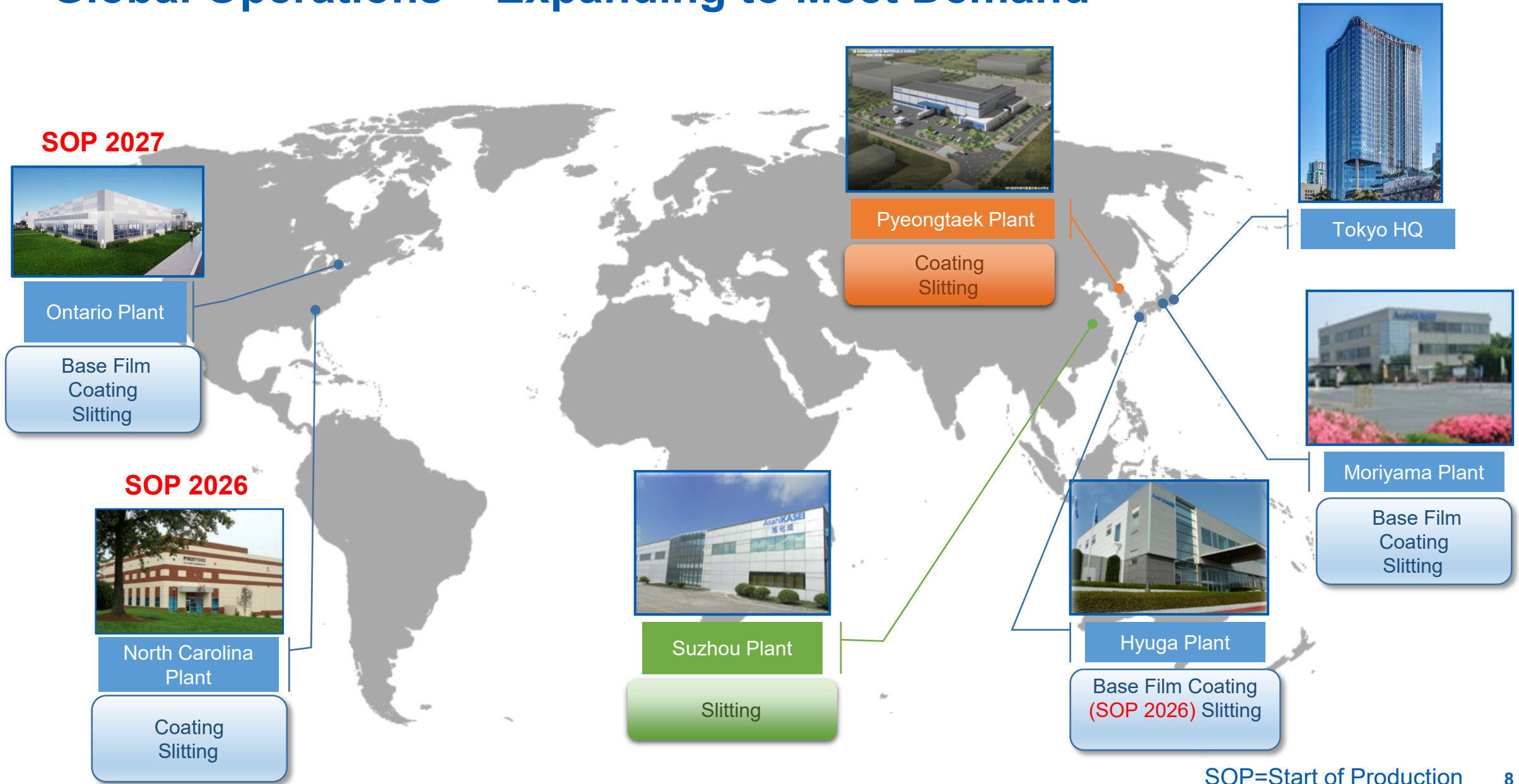
# Asahi Kasei Battery Separators for the Automotive Market

- A full portfolio of leading technological innovation based on long history as a pioneer in each type of separator





# Global Operations – Expanding to Meet Demand

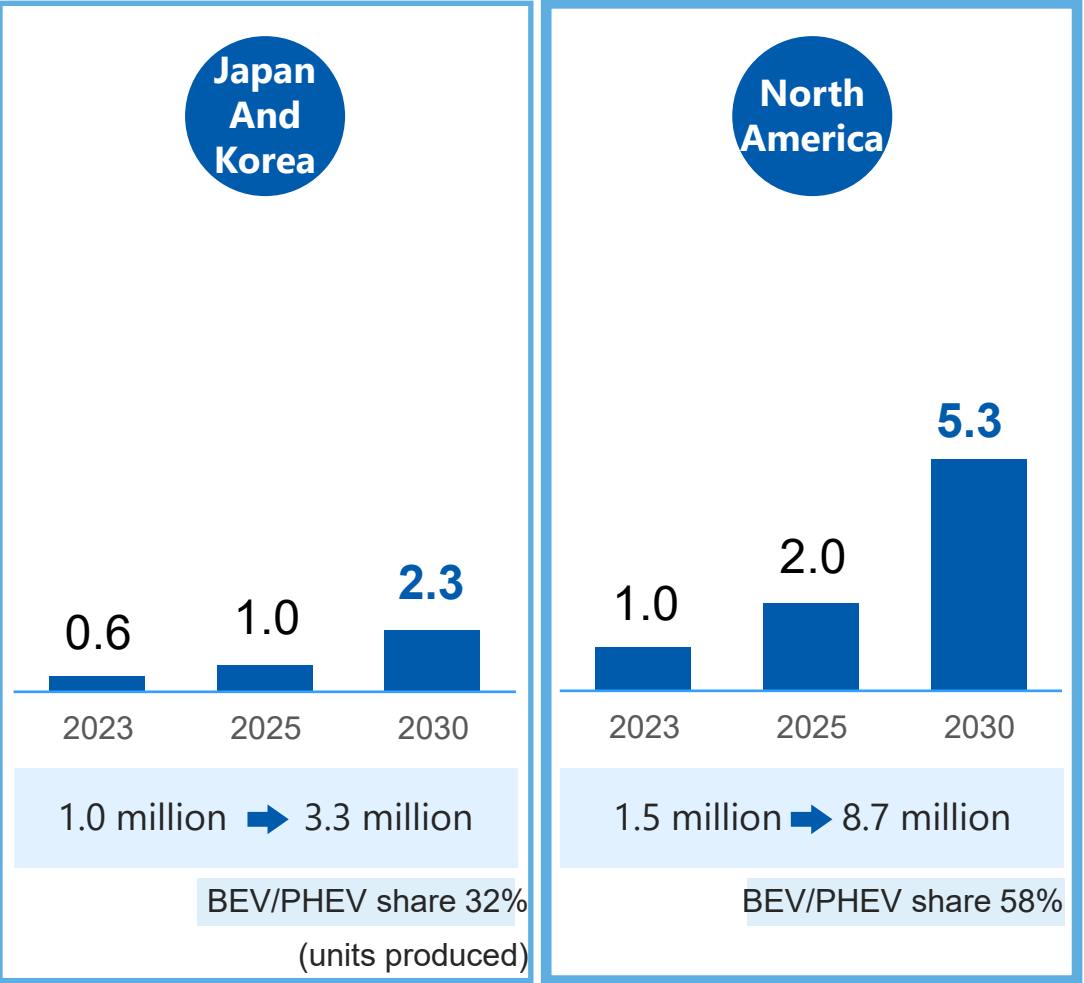




# North American LIB separator market = Asahi Kasei's target

## BEV/PHEV demand forecast (2023 to 2030)

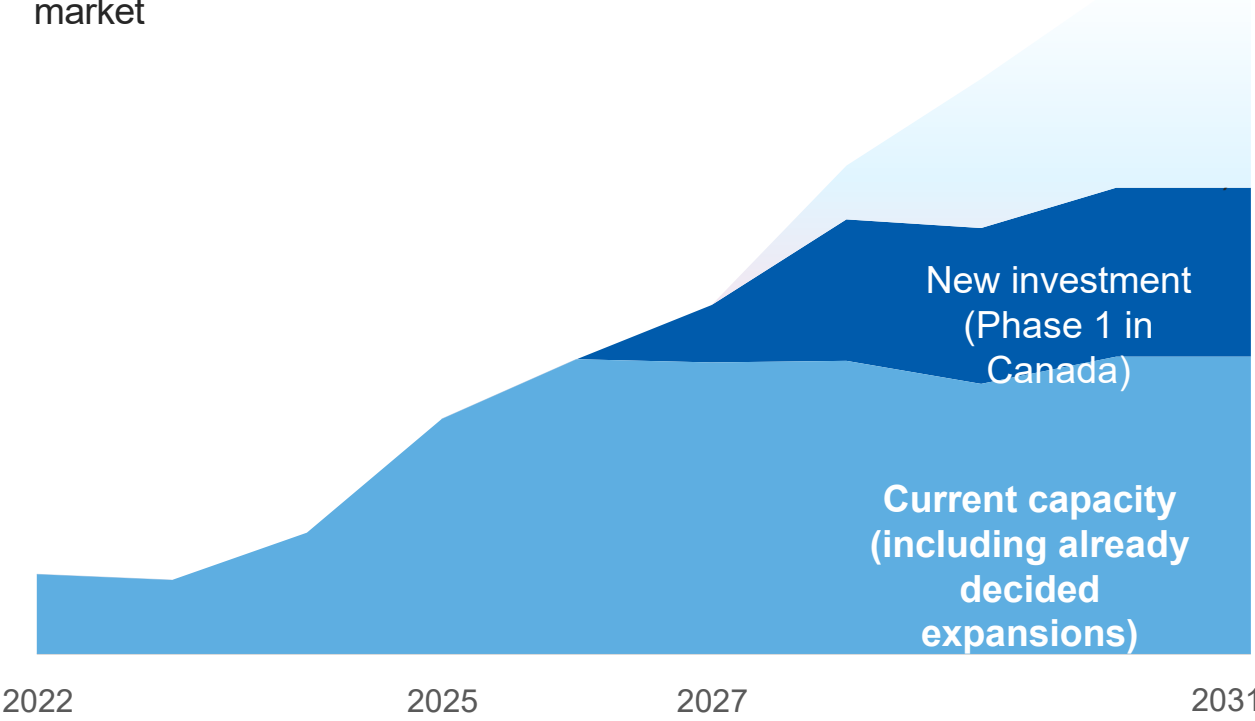
(estimated by Asahi Kasei, billion m2)



Asahi Kasei's target

## Medium- to long-term outlook for our Separator sales volume

- Increased sales volume in North American market through the current production capacity from fiscal 2024
- Start of new coating lines in the U.S., Japan, and South Korea from fiscal 2026 (press release issued on October 31, 2023)
- Start of the first plant in Canada from fiscal 2027; considering Phase 2 and Phase 3 investments anticipating strong demand in North American market



# Planned Investment in Canadian Operations

Location	Port Colborne, Ontario, Canada
Plant overview	Integrated plant for base film manufacturing and coating of lithium-ion battery separator
Total investment	Approximately C\$ 1.7 billion*
Production capacity	Approximately 700 million m <sup>2</sup> per year (as coated film)
Start of operation	Commercial start-up scheduled in 2027

\* At rate of ¥105 per C\$



# Why Niagara, Ontario, Canada?

- **Power**
  - Reliable power supply
  - Good supply of green energy
- **People**
  - Abundant pool of qualified people willing to work
  - Local technical schools and colleges willing to partner as resources for hiring and training
  - Contractors readily available (in a variety of disciplines)
- **Community**
  - Welcoming neighborhood
  - Good quality of life (low turnover of people)
  - Government agencies willing to help us navigate permitting, service needs, etc.
  - Availability of support services (food vendors, suppliers, general contractors after construction)
- **Spirit of collaboration & responsiveness of the local team to many high priority questions and urgent needs – thank you!**



*"We are eager to bring our first wet-process lithium-ion separator manufacturing facility to Canada. Backed by the abundant renewable resources, skilled talent and strong local community support here in Port Colborne, we will be able to better serve our partners in the region as well as the broader North American automotive market from this facility."* Koshiro Kudo, President, Asahi Kasei Corporation

***Because Canadians are Awesome!***

# Sustainability Initiatives

Our Group Mission is to ***contribute to life and living for people around the world***

As a company we are determined to contribute to the future of society through the two main pillars:

## Care for People



- Deliver safe and reliable products and services to our customers
- Fair and transparent business activities with our partners
- Respect of human rights
- Health & productivity management
- Occupational health & safety
- Ensure operational safety
- Engage in social activities that contribute to community development and fellowship
- Through our Homes sector, contribute to the development of homes and communities that can withstand climate change
- Through our Health Care sector, provide access to pharmaceuticals and medical devices to help people live active and vibrant lives

## Care for Earth



- Group-wide environmental management system
- Climate change measures that reduce greenhouse gas (GHG) emissions through innovative technologies
- Pollution prevention and resource circulation
- Water resource preservation
- Biodiversity / sustainable use of biological resources
- Environmental contribution products that improve the environment throughout their entire life cycle



### Environmental Contribution Product LIB Separator

Asahi Kasei's LIB separator technology is essential to improving the battery performance of electric vehicles, which contribute to a reduction in CO2 emissions during driving, when compared with gasoline vehicles.



# Community Partnership Examples

## Nurturing the Next Generation (Raising interest in science among youth)

We hold an event in support of a government program to raise interest in careers in science and engineering among the young generation.

## Tree Planting, Reforestation & Other Sustainable Activities

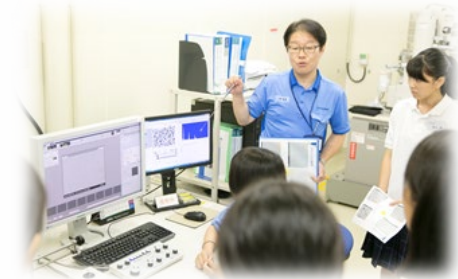
We contribute to the public benefit by planting and nurturing forests that protect local communities from natural disasters such as flooding.

## Promotion of Culture, Art, and Sports (Corporate sports activities)

Our judo team and distance running team have produced many Olympic athletes. The teams also actively participate in various community fellowship activities.

## Local / Charitable Giving Programs

Employees are encouraged to participate in local giving programs or other charitable events that are organized by region or business. Examples include holiday toy collections, food drives, and fundraising events to benefit local community organizations.



Mainichi Newspapers Co., Ltd.



*We are excited to partner with our new family  
in the Niagara Region!*

**PORT COLBORNE  
COMMUNITY  
CONCERT SERIES**  
PRESENTED BY: AsahiKASEI

Free admission with a  
non-perishable food donation  
to Port Cares



First Mate  
Sponsor of the  
2024 Canal Days  
Festival

Disclaimer:

The plan and estimates shown in this document are dependent on a variety of assumptions and economic conditions. Plans and figures depicting the future do not imply a guarantee of actual outcomes.

**AsahiKASEI**

*Creating for Tomorrow*