CONNECT TO SUSTAINABILITY

Sustainability for Business Forum 2023

Thursday, 18 May 2023

The Landmark Bangkok Hotel

Session 3:

Future of Transport

ORGANISED BY

Franco-Thai Chamber of Commerce หอการค้าฝรั่งเศส-ไทย
NTCC
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Moderator

Isawan Kaeochotchuangkul
Rhenus Air & Ocean

Roland Coppens
KLM Royal Dutch Airlines

Gianandrea Bruzzone
ABB

Dr. Pantip Piyatadsananon
Suranaree University of Technology

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KLM Royal Dutch Airlines

Roland Coppens
General Manager
AIR FRANCE KLM
South-East Asia and Oceania

Royal Dutch Airlines

since 1919

Purpose, Vision and Strategy

Purpose (Why)

Creating memorable experiences on the planet we care for

Vision (What)

Pioneering to become a frontrunner in sustainable aviation

Strategy

Run a great airline for our customers and our people

By connecting people and businesses across the world and investing in our strong brand and propositions.

Transform to a net positive company

KLM wants to generate more value for the world than it consumes to run its business.

Create technological advancement

We adopt new technologies in our business and catalyse innovation in the airline industry.


Thank you

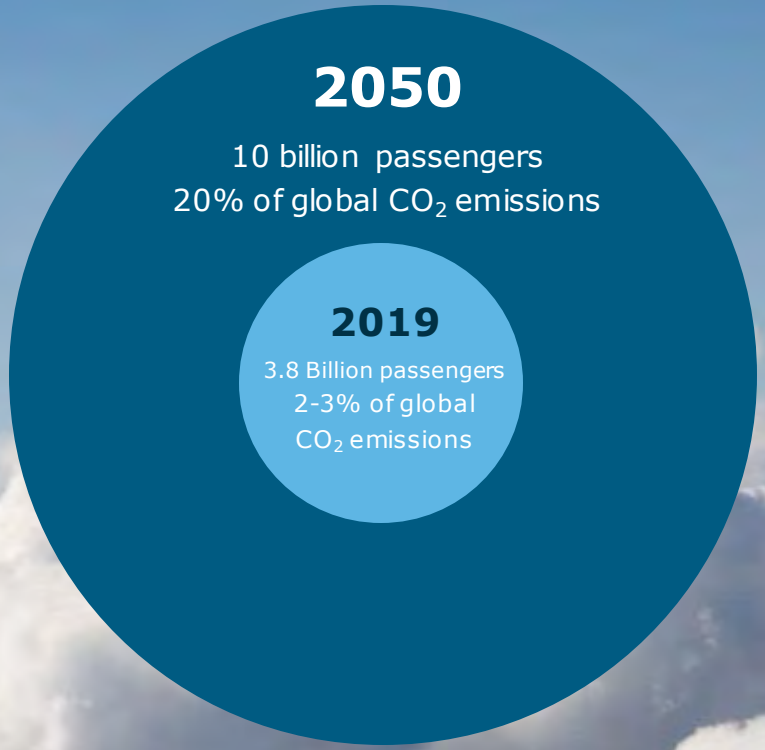
KLM's Path to Net-Zero: Sustainable Aviation Fuel

18 May 2023

Roland Coppens
General Manager, AIR FRANCE KLM
South-East Asia and Oceania

Royal Dutch Airlines

Why Reduce Carbon Emissions in Aviation?




KLM Royal Dutch Airlines

In the air

Fleet modernization

On board

Lighter seats

On the ground

Electrical ground vehicles

What is Sustainable Aviation Fuel (SAF)?

Made from renewable resources

Produced in a cleaner, circular process

Reduce emissions by at least 75% compared to fossil fuel

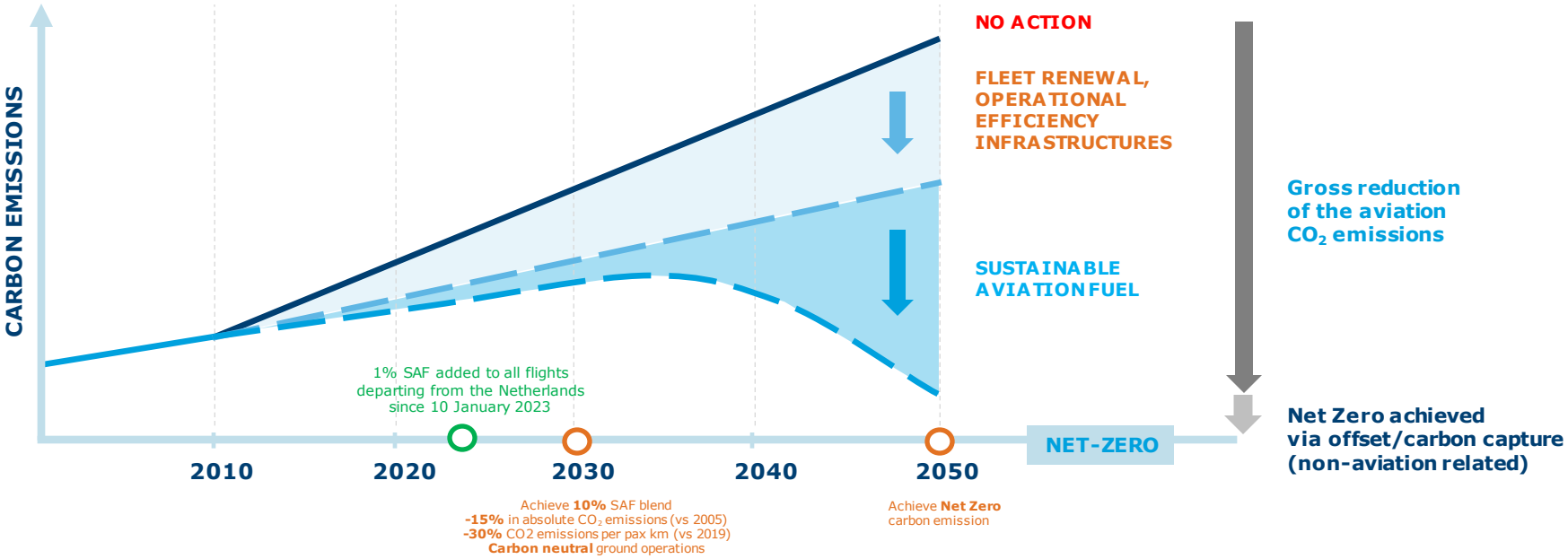
Why Are Airlines Not Switching to SAF?

Limited supply & production capacity

High prices

Low demand

KLM Sustainability Roadmap



KLM’s path in blending SAF

a small but important step forward

1%

in 2022

5%

in 2025

10%

in 2030

63%

in 2050

We aim to go beyond the EU mandate of RefuelEU’s 2% SAF by 2025


Together
we can make a bigger
difference!

How Freight Forwarders are Leading the Change in

DECARBONIZING TRANSPORTATION

RHENUS AT A GLANCE

Founded in
1912

Turnover
€ 8.6 billion

Employees
39,000

Sites
1,120

Rhenus Group offers comprehensive supply chain solutions that cover transportation, warehousing, customs clearance, and value-added services. As a family-owned business, Rhenus prioritizes the needs of its customers above all else and continuously strives for innovation. This commitment to excellence has solidified its reputation as a leader in the industry.

OUR SUSTAINABILITY PILLARS

From day one, Air & Ocean Division strives to broaden the definition of sustainability by focusing not just on the environment, but also on three key areas guided by 6 SDG's.

PEOPLE

Improving the wellbeing and equality of our people.

ENVIRONMENT

Tracking and reducing our carbon footprint.

SOLUTIONS

Offering sustainable solutions for our customers.

OUR SUSTAINABILITY CERTIFICATION

GOLD 2022 ecovadis Sustainability Rating

EcoVadis Gold Rating for environmental, social, and ethical practices in accordance with international standards.

OUR PARTNER IN CLIMATE ACTION

Clean Cargo
A Smart Freight Centre Partnership

ClimatePartner

COZERO

EcoTransIT World

OUR SUSTAINABLE FRAMEWORK

OPTIMIZE

REDUCE

TRACK & ANALYZE

PRE-SHIPMENT

- **GREEN SOLUTION CONSULTANCY**

  Find sustainable options before selecting final transportation mode(s).

- **RHEGREEN**

  Choose sustainable options for your air freight.

RHEGREEN
INSIGHT INTO FLIGHT

DURING SHIPMENT

- **BIOFUELS MARINE & AVIATION**

  Reduce transport emissions with sustainable marine or aviation fuels.

- **CARBON OFFSET PROGRAMS**

  Offset your carbon emission from FCL, LCL, and air freight shipments.

POST SHIPMENT

- **EMISSION DASHBOARD**

  Track your shipment's carbon footprint from port to port.

PRE-SHIPMENT // Optimize

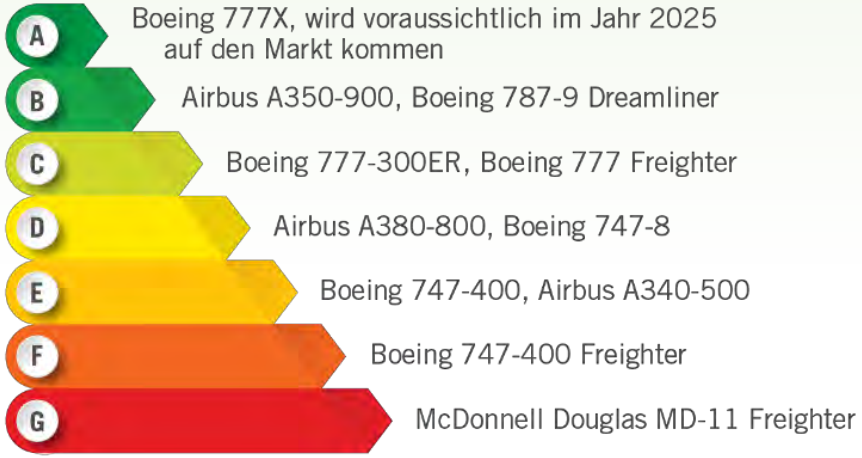
GREEN SOLUTION CONSULTANCY

- Find sustainable options before selecting final transportation mode(s).

RHEGREEN
INSIGHT INTO FLIGHT

- The world's first CO2 reduction program for air freight transportation.
- The calculation method is based on aircraft types, fuel consumption, and distances to be covered.
- Available at no extra cost to Rhenus Logistics customers from all offices to all destinations worldwide.

OUR SELECTION OF LONG-HAUL AIRCRAFT BASE ON CO2 EFFICIENCY



- Reduce up to 40% of your CO2 emissions.
- Mitigate your carbon footprint with every shipment.
- Ship sustainability without sacrificing efficiency.

DURING SHIPMENT // Reduce

Our Carbon Offset Programs

Ocean FCL
- Rhenus and CNC partner to offer carbon offset program for Intra-Asia trade lanes.

Ocean LCL
- Carbon offset programs for ocean LCL shipments.

Air Freight
- Rhenus and ClimatePartner calculate and offset CO2 emissions from the main haul of air freight cargo.

Alternatives Fuels

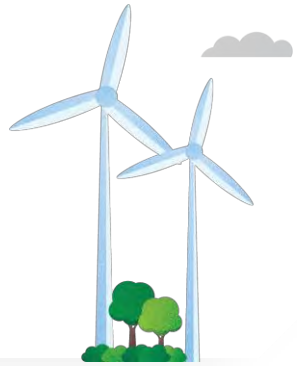
- Biofuel
- Sustainable Aviation Fuel (SAF)

3,765.75 t CO2e

were offset through ClimatePartner.

Scan the QR code below to see the verified report on our freight emissions.

ClimatePartner



POST SHIPMENT // Track & Analyze

Emission Dashboard: CO2 Tracking Tool

- **Track CO2 emissions** from the main haul of air freight and ocean freight transport.
- **Monitor number of shipments** per freight type, gross weight, and volume in unit measurements.
- **Access accurate data on emissions** to better understand and reduce carbon footprint.

Available via freight portal and updated on a monthly basis

Carbon dioxide equivalent (CO_2 e) Well-To-Wheel

100% Transparency

Easy to understand, credible reporting, in line with **international standards**.

- European standard EN 16258 for Ocean freight
- IATA/ICAO standard for Air freight
- GHG Protocol by EcoTransIT
- GLEC Framework

THE DOMINO EFFECT

While we may not have direct control over reducing emissions, our actions can inspire a ripple effect. As a company, we aim to facilitate carbon reduction goals for our customers and motivate those without such objectives to **make positive changes towards sustainability.**

We can achieve this by making **eco-friendly solutions** more accessible to them by:

EMPOWERMENT

Empowering customers to reach their carbon reduction goals.

INSPIRATION

Inspiring positive actions towards sustainability among those without decarbonization objectives.

ACCESSIBILITY

Making green solutions more easily accessible for customers.

GET IN TOUCH WITH US

Name : Isawan Kaeo

Title : Director, Sustainability & Development - Rhenus Air & Ocean

Email : isawan.kaeo@ap.rhenus.com

Website : *https://www.rhenus.group/rhenus-group/sustainability/*

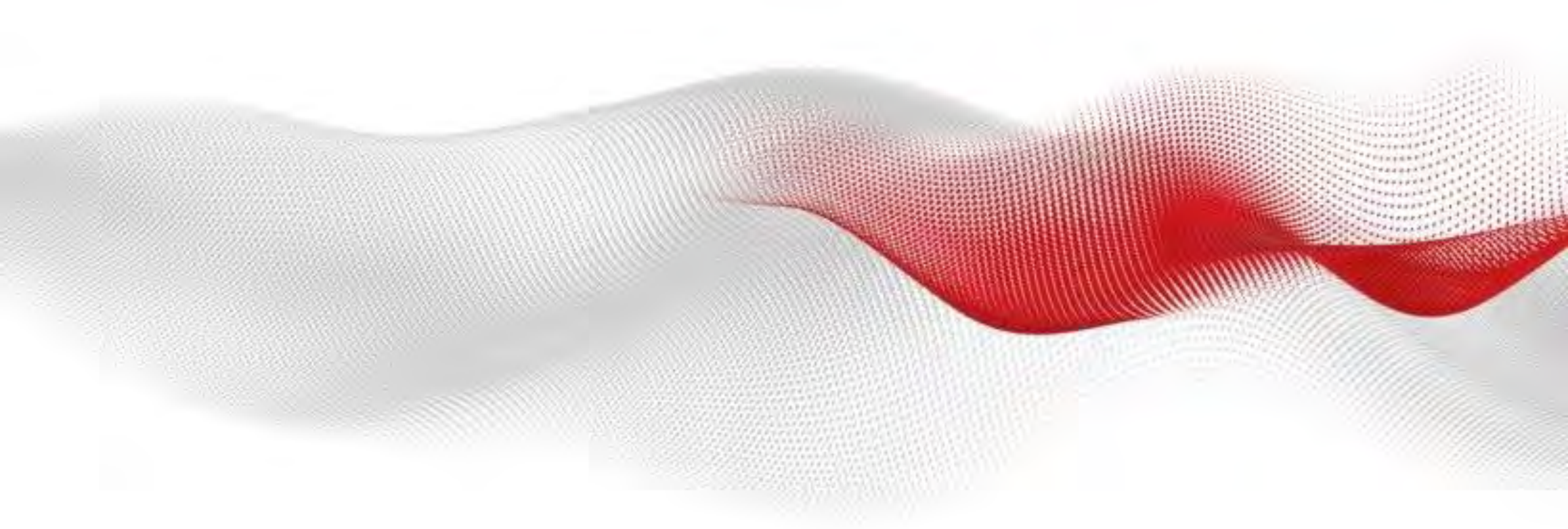


ABB Introduction & solutions offering

SBF23 / Sustainable Business Forum 2023 – Bangkok, Thailand

Gianandrea Bruzzone

Well positioned across global markets

ABB is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future.

By connecting software to its **electrification**, **motion**, **process automation and robotics & discrete automation** portfolio, ABB pushes the boundaries of technology to drive performance to new levels.

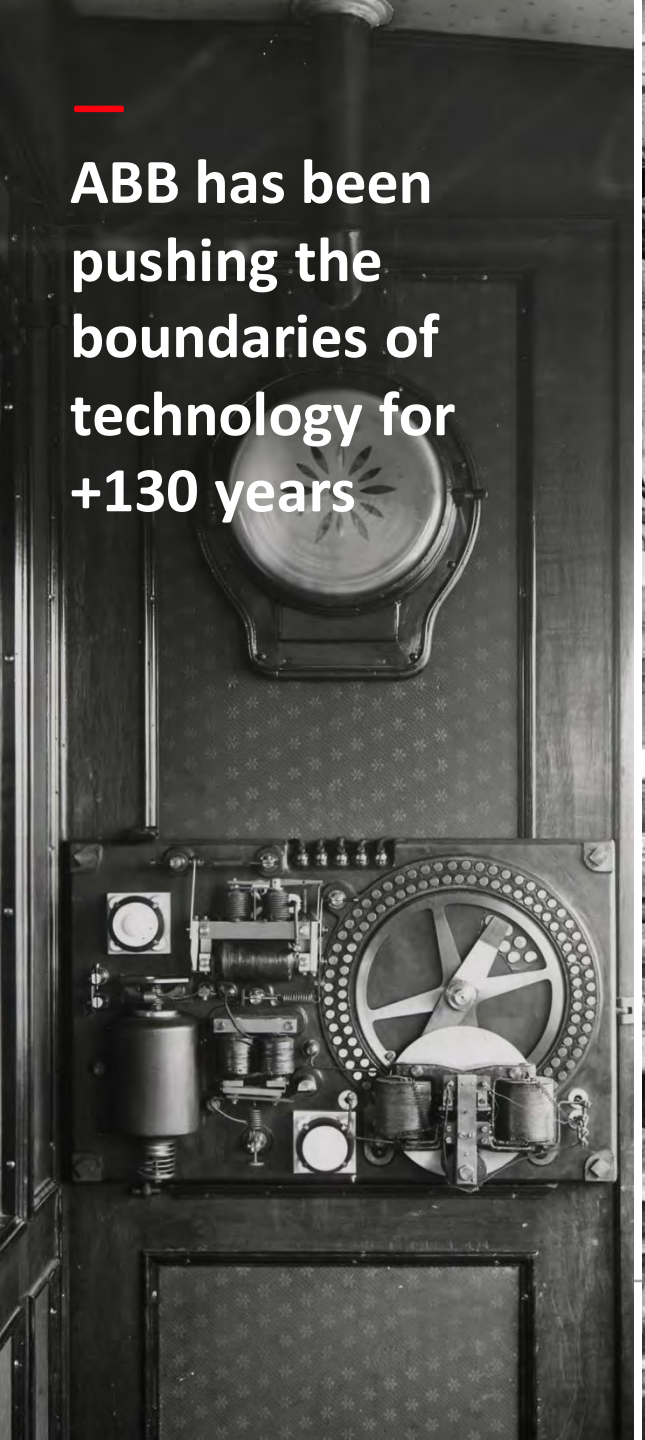
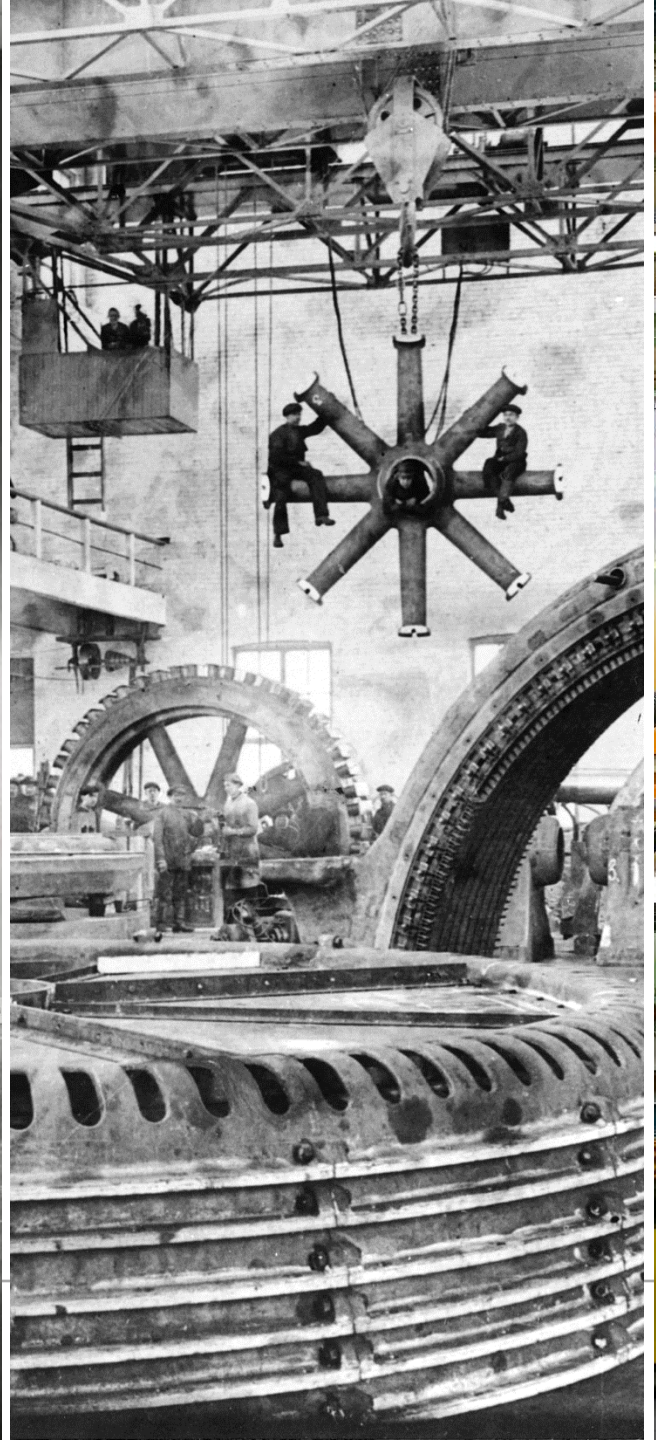
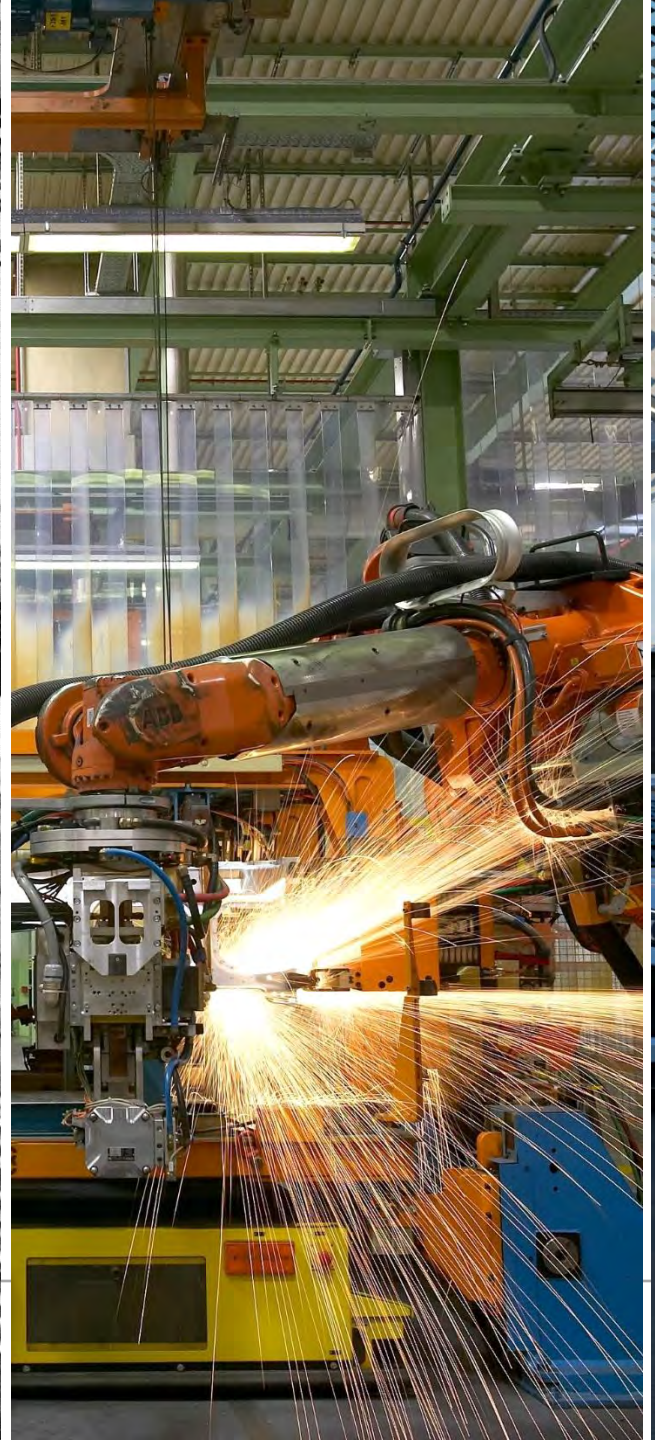


ABB has been pushing the boundaries of technology for +130 years





Fully decentralized business model with 21 Divisions

BUSINESS AREA	Electrification	Motion	Process Automation	Robotics & Discrete Automation
				
DIVISION	Distribution Solutions	IEC LV Motors	Energy Industries	Robotics
	Smart Power	Large Motors & Generators	Process Industries	Machine Automation
	Smart Buildings	NEMA Motors	Marine & Ports	
	Installation Products	Drive Products	Turbocharging	
	Power Conversion	Systems Drives	Measurement & Analytics	
	E-mobility	Service		
		Traction		

ABB in Thailand

Overview

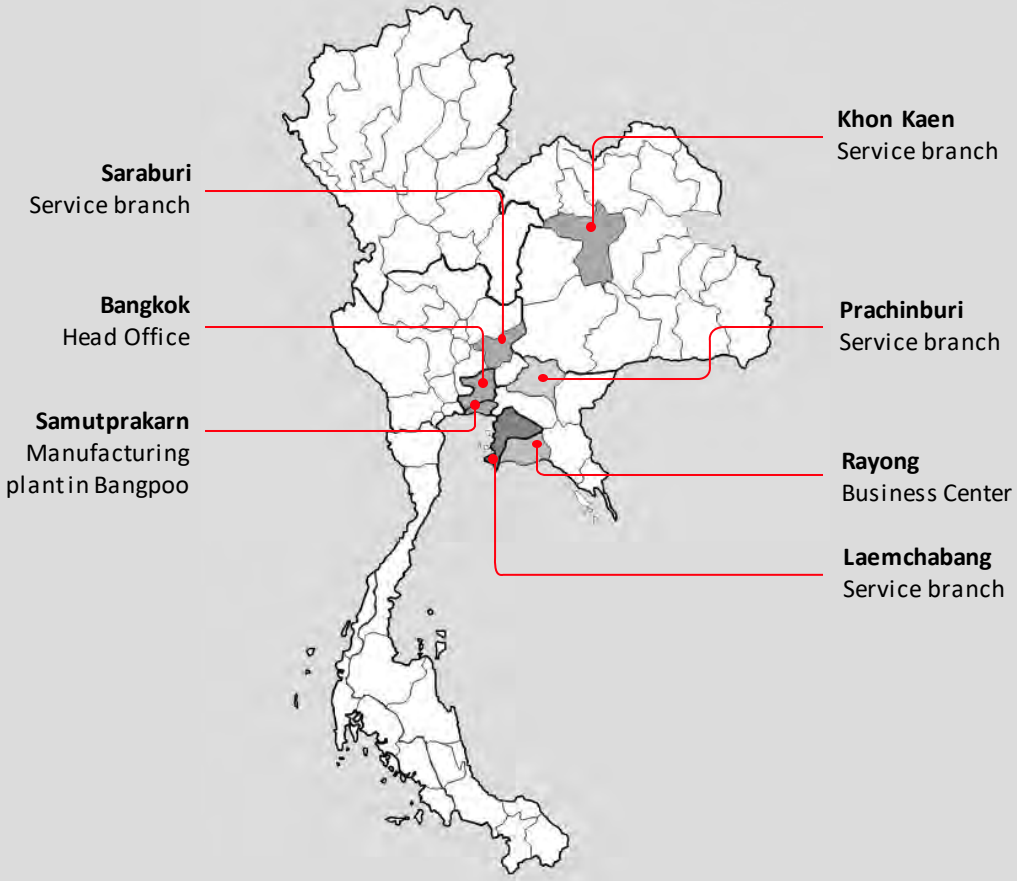
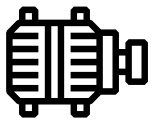


ABB in Thailand

From 1913, to establishment of THABB on 1978 with 45 years of local presence

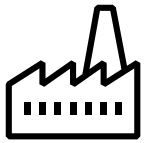
Business highlights



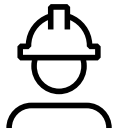
Year 1913: ABB first major delivery to the first Cement plant for SCG Group

– 1978 Asea Co., Ltd. established in Thailand

$2 billion: Estimated ABB's installed base value



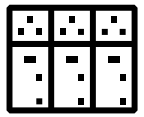
4 businesses: Covering all market segments - Utility, Industry, Buildings, Transport & Infrastructure



Service Hubs: Rayong and Saraburi

Headquarters: Located at SG Tower, Lumpini, Bangkok

TH Cluster: Business responsibility for Myanmar, Cambodia, Laos



Footprints: Key manufacturing in Bangpoo Industrial Estate, Samutprakarn

- MV & LV Switchgear, Relay Control & SCADA
- Robot Application Center (Welding & Cutting hub for SEA)

Focus areas / Key projects

INDUSTRY

Cement

Oil and Gas

Automotive

Food & Beverage

Data center

BUILDING

Large commercial and residentials areas

Shopping Malls

Hospitals

TRANSPORT & INFRASTRUCTURE

MRTA

BTS

Airport

Railway

e-mobility

Eastern Economic Corridor

UTILITIES

EGAT

MEA

PEA

ABB robots help accelerate COVID-19 vaccine development in Thailand

Challenge
Thailand's Mahidol University and the Institute of Molecular Biosciences needed a rapid and safe way of testing and handling various samples for vaccine development.

Solution
An ABB YuMi cobot and IRB 1100, an industrial robot work together as part of the AI-Immunizer system to handle samples of virus as well as antibodies

Application
The robots can perform tasks such as take samples by pipette, mix sample according to designed formulas and transporting them to test stations, performing repetitive actions that avoids risks to operators

ULH drives for district cooling plants, Thailand’s largest fully integrated district

WHO

End user: One Bangkok (TCC Group)

EPC: Tokyo Gas Engineering Solution

Main contractor: Thai Shinryo Limited

Panel builder: CPT Drives and power public co., ltd.

WHAT

36 units of Ultra-Low Harmonic Drives ACH580-31/34

WHY

Advance ULH technology and completed solution

Fast response and excellent technical influencing to EPC

Strong committed team

Trust in local best support and service

Lenzing Thailand – the largest lyocell fiber plant

End user: LENZING (THAILAND) COMPANY LTD.

Project name: T3 project

Location: 304 Industrial Park, Prachinburi

EPCM : Wood (Foster Wheeler)

OVERVIEW

- The first step in bringing lyocell production to Asia
- The Lenzing's largest lyocell fiber plant in the world, plan capability 100,000 tons/year
- The total investment volume for the first production line, including infrastructure and site development, amounts to approximately EUR 400 million.

SCOPE

- Electrical and Instrument installation for the whole plant
- Supply manpower more than 1,400,000 Man Hours without TRIFR
- Support customer to achieved their schedule which was delayed by Covid-19 pandemic.

ABB’s PCS100 UPS-I commissioned for AstraZeneca COVID-19 vaccine production in Thailand.

Siam Bioscience’s new vaccine manufacturing facility for Thailand and Southeast Asian countries

- ABB’s PCS100 IPS-I to ensure operational efficiency and constant supply of high-quality power at Siam Bioscience’s new manufacturing facility in Nonthaburi, Thailand.
- The new manufacturing facility is expected to produce 200 million doses per year for Thailand and Southeast Asian countries.

E-MOBILITY DIVISION

ABB E-mobility

Solutions in EV charging infrastructure and services

ABB E-mobility:
The world leader in EV charging solutions

A pioneer of the green mobility revolution

$256 mn
Total investment by ABB from 2017 to 2021[1]

$323 mn
2021 revenue

61%
2017-2021 revenue CAGR

>650k
AC chargers sold

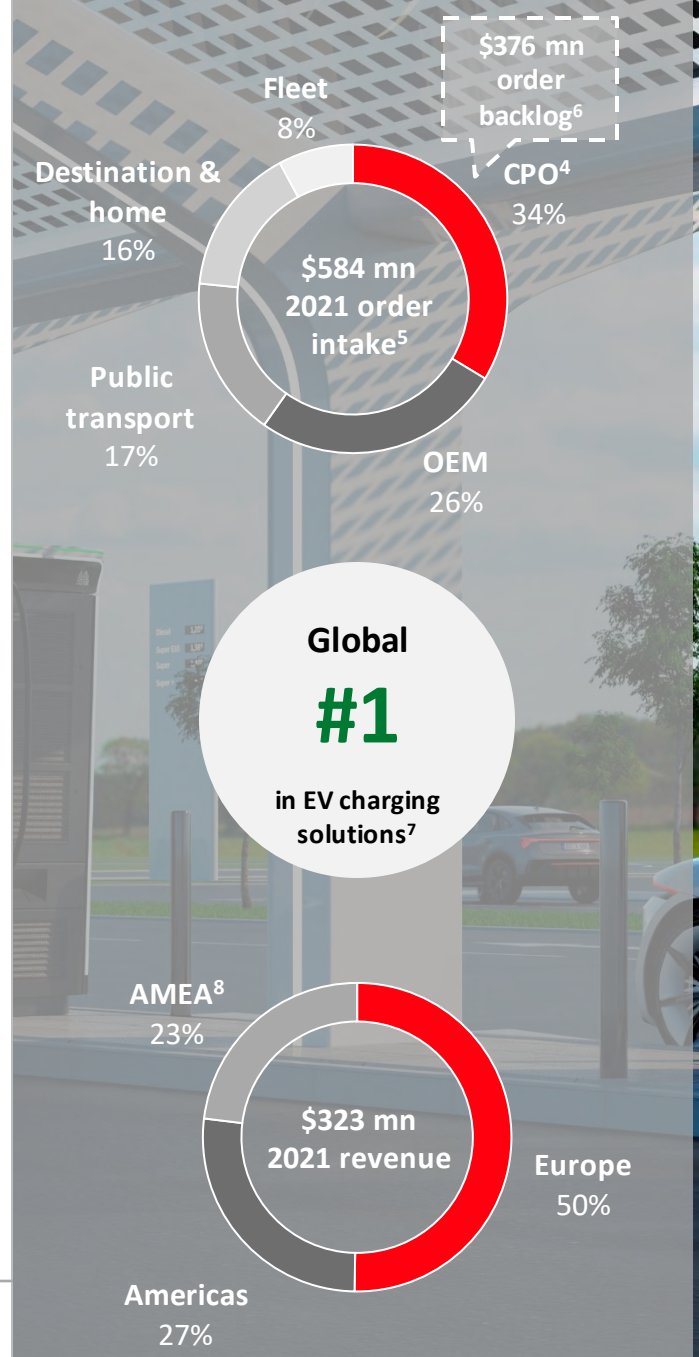
>30k
DC chargers sold

>350
Granted patents

>85
Markets served[2]

~1,000
Employees

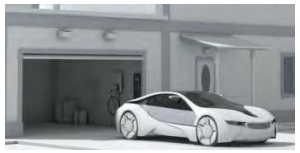
>350
R&D experts[3]



Source: Company information
Note: Financial information is in draft form and is subject to completion and amendment; unless specified, figures are as of today
1. Total investment includes R&D expenses, capital expenditure, M&A and equity investments
2. Including via MDA (Master Distribution Agreement) with ABB Group
3. Includes contractors
4. Charge Point Operator
5. Order intake represents the order value of contracts awarded during the respective accounting period to design, engineer, manufacture and/or provide EV charging solutions, services and software; split excludes unassigned segments and sales via ABB given no visibility on end-market ($118 mn)
6. Order backlog for EV charging solutions, services and software represents the undiscounted value of future revenues that the Group expects to generate from our orders at any point in time; as of 31 December 2021
7. Based on ABB management assessment; Roland Berger conducted revenue, footprint and product breadth analysis
8. Asia, Middle East, Africa

Widest portfolio of EV charging solutions for customers across various use cases

Use case


Single home residential charging


Apartment, hotel & workplace destination charging


Commercial fleet


Public commercial parking


Fast-charging roadside stations


Bus charging


Industrial fleet


Heavy-duty truck charging

Charging products


Terra AC wallbox 3-22 kW


Terra Nova 11J (bi-directional) 11 kW


Terra DC wallbox 20-25 kW


Terra 124 60-120 kW


Terra HVC 50-180 kW


Terra 184 90-180 kW


Terra High Power (liquid cooled) 175-350 kW


Terra 360 (liquid cooled) 180-360 kW


Pantograph (panto up, panto down, connectors) 150-600 kW

To come in 2022


Megawatt charger up to 3 MW

Asset, energy & fleet management


Connectivity and remote software update


Remote support (configuration, troubleshooting)


24/7 network monitoring by ABB


User interface


Plug & charge


Payment module


EV site management


Bi-directional charging


Enable energy trading[1]


Predictive load profiles


e-fleet schedules & management

Source: Company information

Note:

1. ABB E-mobility does not engage in energy trading but enables customers to do so

EV fast charging and global standardization

ABB leading in major developments this decade

2010
Founding of CHAdeMO
ABB was involved from the start

2010
Launch Terra 51
50 kW CHAdeMO charger

2012
Founding of CCS alliance
ABB involved from the start, basis for IEC standard

2013
Launch CCS & multi-standard Terra 53
CCS + CHAdeMO + AC

2013-2015
Launch global variants Terra 53
China, USA, APAC

2016
First eBus chargers
Global partnerships with bus OEMs

2018
First eTruck chargers
Global partnerships with Truck OEMs

2019
DC Wallbox
24kWp, 920V

2020
Terra AC
7.4 - 22kW

CHAdeMO — CCS alliance — Multi-standard — E-bus — Higher power — Smart AC — Near future

Pilots — First EV's — IEC 61851-23 — Global EV spread — OppCharge — High Voltage

2010
First EU 50 kW charger
Proprietary standard, no consumer EV's available

2010
First EV's with DC charging
Nissan Leaf & Mitsubishi iMieV

2012
First demo of CCS charging
ABB & CCS alliance at EVS26 Los Angeles USA

2012 - 2013
First nationwide DC networks
ABB in Estonia, Denmark Netherlands

2012 >
ABB leading Connectivity & uptime
ABB has industry leading uptime by remote mnmnt

2014 >
DC networks spread globally
Europe, USA, Asia

2017
Launch of high power for cars
150-350kW charging for next generation EV's

2018
Gen2 charge post and Terra 54HV
Next steps in High Voltage charging

2020
Terra 184(HC), Terra 124(HC), Terra 94
Dual DC charging in Terra 184 and Terra 124. Up to 300A CCS

ABB is global charging partner for Car, Bus and Truck OEMs

Strong presence in China, USA and Europe

DISTRIBUTION SOLUTIONS, MAY 2023

DC Traction Power Supply

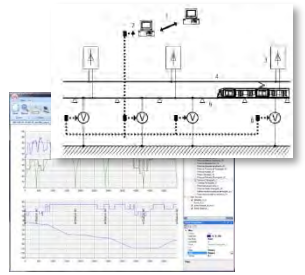
Value propositions

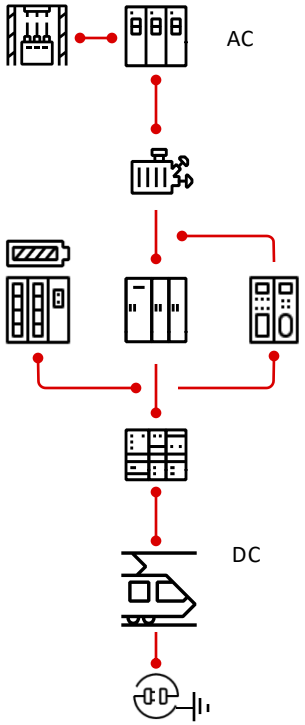
DC Traction Power Supply

Document ID.: - Rev.: B

DC Traction Power Supply

ABB acting as single-source supplier





1 Primary and secondary air or gas insulated medium voltage switchgear



2 Transformer-rectifier groups, diode rectifiers and controlled rectifiers

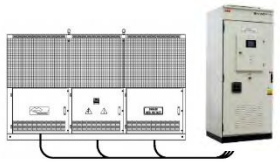


3 DC high-speed circuit breakers, DC switchgear and voltage limiting devices



4 Energy recuperation, energy storage systems and assured receptivity units





Value added services

End-to-end solutions out of one hand

Click on the individual pictures to get a one-page summary per product and services.
Click on the video icon to play DC TPS introduction movie.

DC Traction Power Supply

Main electrical equipment

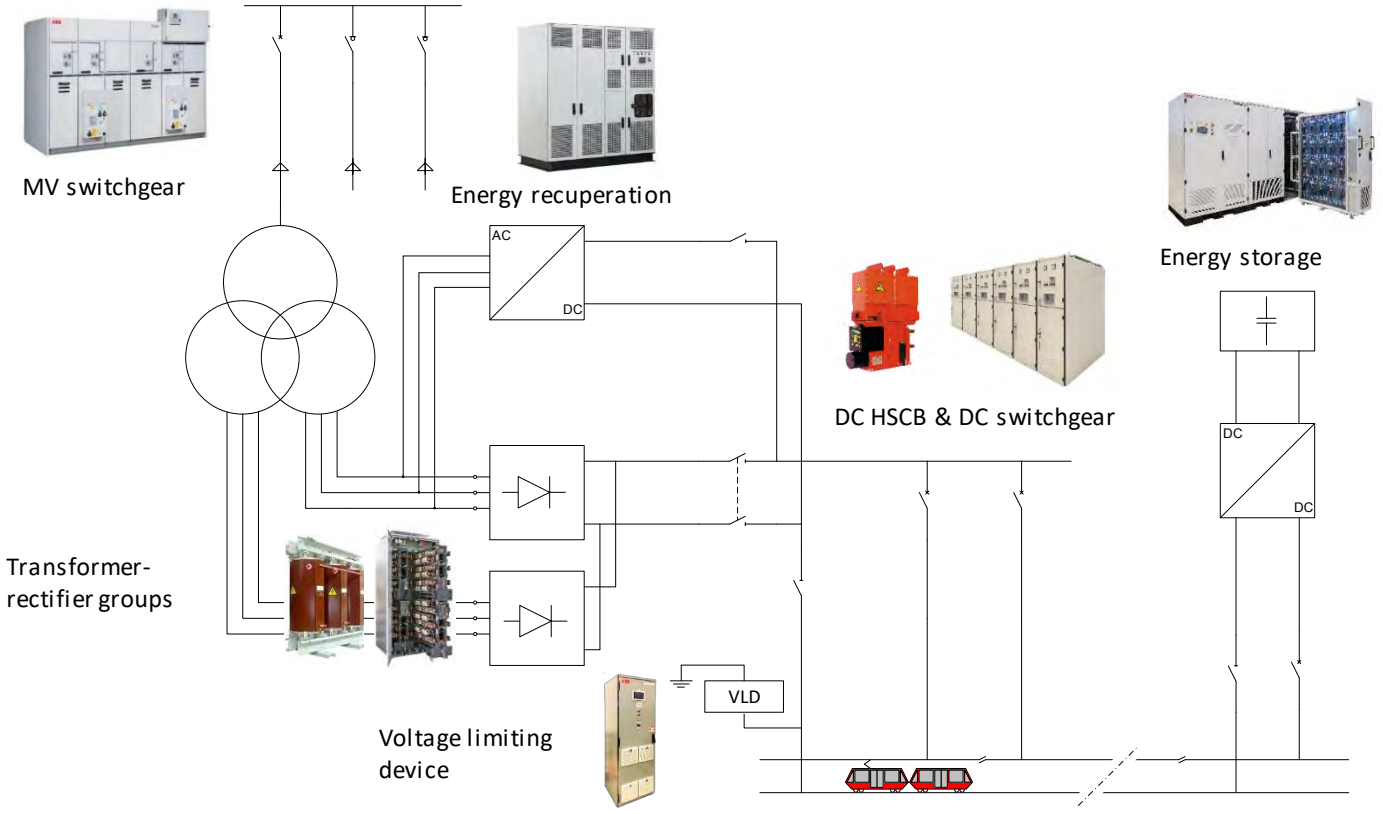
End-to-end solutions

We provide all the services you need out of one hand, creating valuable synergies in the process and giving you unique opportunities to save costs.

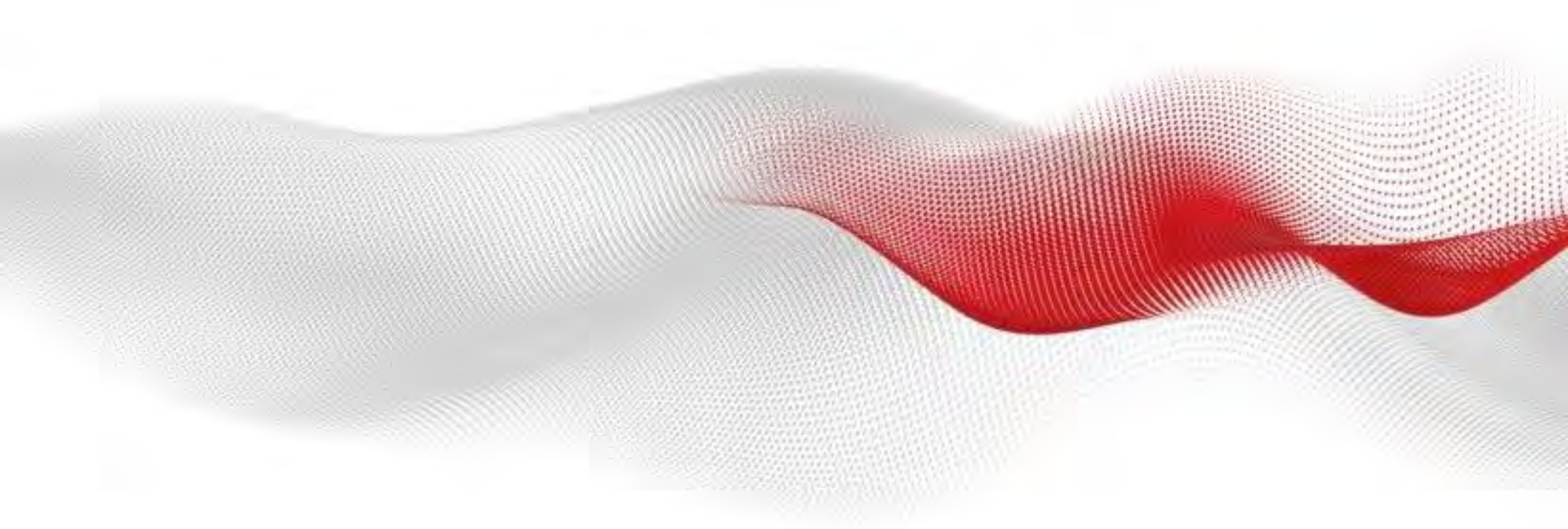
Customer benefits:

– One-stop shop for complete electrification packages;

– Reliable, cost effective and energy efficient solutions for DC traction power networks.




ABB



Sustainability at ABB

SBF23 / Sustainability Business Forum 2023 – Bangkok, Thailand

Gianandrea Bruzzone

ABB’s sustainability journey

Sustainability principles have been progressively embedded in ABB’s business strategy

Sites

Sites implementing ISO 14001

Environmental management

Products, environmental product declarations, lifecycle assessments

Health & safety management

OHS policy, management system, investigations, global reporting

Climate change

Climate change / energy efficiency

Social management

Social policy, stakeholder dialogues, human rights policy, labor rights

Security

Travel security, physical security, crisis management

Sustainability strategy 2015+

Materiality review, objectives & KPIs, ABB Sustainability Board, functional competency framework

Governance, systems, tools and Health

The ABB Way[1] & MIS[2]
Country HSE/SA Board, Group Audit Program, Functional Competency Assessment, Global Health Strategy

Embedded in business

Businesses lead & implement
Corporate provides ABB regulations and processes for assurance

Sustainability strategy 2030

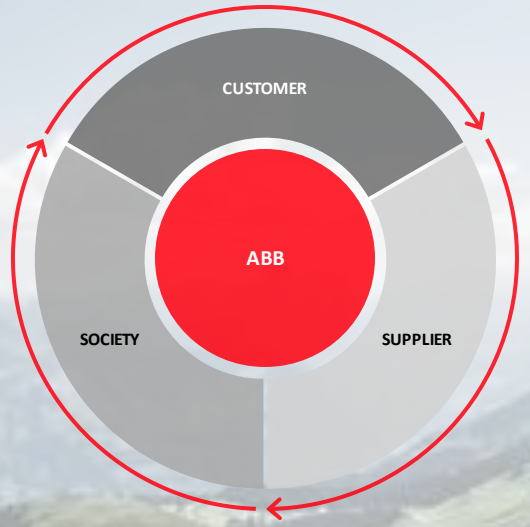
Solid foundation laid by exceeding 2020 targets and setting ambitious 2030 targets

1994	2000	2003	2005	2007	2011	2017	2019	2020
ABB’s first environmental report	ABB’s first sustainability report	OHS focus	Climate change Human rights	Crisis management and security	Sustainability strategy 2015+	Governance, processes & tools and health	HSE fully embedded in business	Launch of sustainability strategy 2030

Notes:
1. The ABB Way for HSE and Security – a global management system, integrated into ABB regulations
2. MIS – a global management information system for reporting against targets and KPIs and a source of data, e.g., for incident investigations
3. OHS – Occupational, Health and Safety

Main sustainability targets

Striving to achieve all targets by 2030



Sustainable Value Chain

We enable a **low-carbon society**

- **Carbon neutrality** in own operations
- Support our customers in reducing annual CO_2 emissions by **>100 Mt**[1]
- Supply chain emission reduction

We preserve **resources**

- **80%** of ABB products & solutions covered by circularity approach
- **Zero waste** to landfill[2]
- Supplier Sustainability Framework

We promote **social progress**

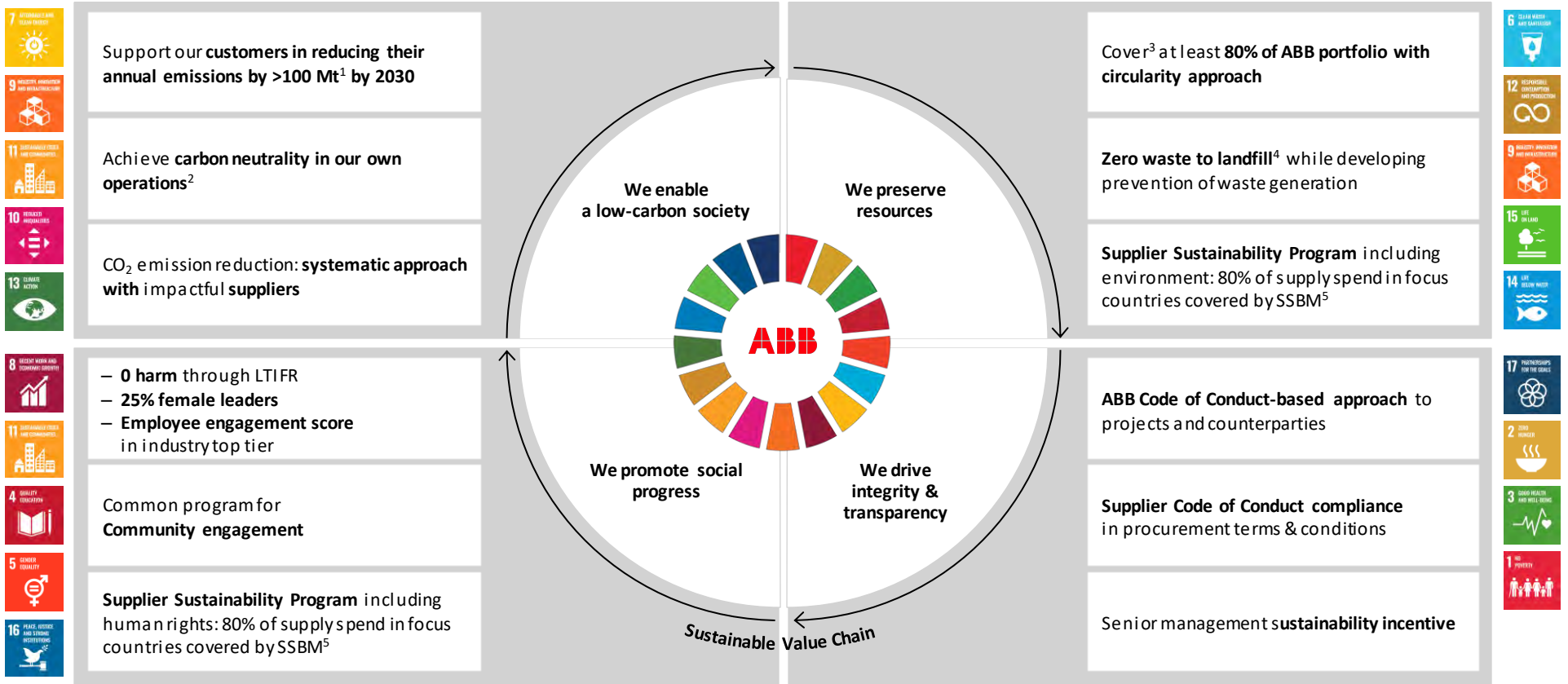
- **Zero harm** to our people and contractors
- Comprehensive D&I framework[3]; **25% women** among ABB leaders
- **Top-tier** employee engagement score in our industry
- Impactful support for community-building initiatives

INTEGRITY AND TRANSPARENCY ACROSS OUR VALUE CHAIN

1. Savings in the year 2030 from solutions provided to customers 2021-30
2. Wherever local conditions allow
3. Diversity & Inclusion framework

With our sustainability strategy, we create superior value for all stakeholders

ABB supports the 17 United Nations' Sustainable Development Goals (SDGs)



We enable seven of the SDGs directly and contribute indirectly to the other 10

Targets distributed across the value chain

Balanced actions on Environment, Social, Governance

Covering our material topics

Embedded in our business through our decentralized operating model

1. Specific business cases supporting the minimum figure commitment – yearly saving in 2030 based on 2021–2030 savings
2. Reducing our own emissions by at least 80% according to SBT guidelines
3. Cover meaning that a systematic approach is applied (e.g., offer for recycling of ABB product to customers means the product is covered, even if not all customers make use of the offer); the concept itself is not yet fully developed as of Q3/2020
4. Zero waste to landfill means 0 waste is disposed directly to landfill or incineration without energy recovery except where local legal requirements impose disposal
5. Sustainable Supplier Base Management (SSBM)

ABB eBus charging – Reference projects

UK
- Harrogate
- Birmingham
- Coventry
- Staines

transdev

Norway
- Trondheim
- Oslo
- Lillehammer
- Brakar

AtB

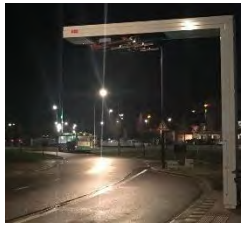
Sweden
- Varnamo
- Ostersund
- Gothenborg
- Skelleftea
- Uddevalla

nettbuss

Denmark
- Aarhus

BUS selskabet

Spain
- Zaragoza



Netherlands
- Dordrecht
- Leiden

Qbuzz

ARRIVA

Germany
- Hamburger Hochbahn
- Gottingen
- Rottweil

HOCHBAHN

Belgium
- Namur
- Charleroi
- Leuven

TEC NAMUR-LUXEMBOURG

De Lijn

LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère du Développement durable et des Infrastructures
Département de l'environnement

Austria
- CNL project

Switzerland
- Bern

BERNMOBIL

Luxembourg, Lux

VILLE DE LUXEMBOURG

Sales-Lentz moving people

VOYAGES VANDIVINIT

France
- Paris
- La Rochelle
- Mulhouse
- Valance
- Rorthais

transdev

RATP

Chech Republic

ARRIVA

Hungary

Singapore
- LTA
- NTU Test track

NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

Thailand

ABB Terra 124 EV charger installed at Elex by EGAT station

The nation's fastest public charging station

EleXA

ABB's Terra 124 EV fast charger with a charging power of 120 kW has been installed at Elex by EGAT station at five PT petrol stations situated on major highway routes located between 100-200 kilometers from Bangkok.

- ABB's Terra 124 typically charge EVs in just 20-30 minutes to reach 80 percent of their charging capacity
- With dual outlet CCS, the charger can provide a full battery charge to two vehicles simultaneously and is designed to meet EV battery voltage capabilities up to 920V
- The charger is compatible with all EVs currently on the market

Thailand

ABB’s fast charging solution to shape the future of e-mobility

PEA Volta EV charging station

- PEA joins hands with Bangchak Corporation to install 124 of ABB’s Terra 54 fast chargers at 62 sites across Bangchak’s petrol stations and PEA offices within 2021.
- EV stations located in 40 provinces across the country.
- ABB Terra 54 fast chargers can charge a vehicle's battery up to 80% of the average charging capacity of the electric vehicle within 15 to 30 minutes.
- The charger is compatible with all EVs currently on the market

Thailand

ABB selected by Shell to provide High Performance Charging Stations for Shell-Recharge

Shell-Recharge High Power Charging site

- Shell-Recharge High Power Charging site launched in Bangyai, Nonthaburi, marks the start of a total eleven Shell EV fast charging stations in Thailand
- Shell, in partnership with Porsche Asia Pacific, invests in ABB's electric vehicle charging solutions to ensure reliability and advanced technological developments for EV charging station
- Shell, in partnership with Porsche Asia Pacific, announced the launch of the first Shell-Recharge High Performance Charging (HPC) site in Bangyai, Nonthaburi. This HPC site launch marks the start of the charging network construction of a total eleven Shell stations throughout Thailand.

Thailand

PEA VOLTA has launched a new 360KW EV Super Charging station in Pattaya, Chonburi

PEA Volta EV Super charging station

- PEA VOLTA has launched a new 360KW EV Super Charging station at PEA VOLTA 7-Eleven in Bali Hai Pier, Pattaya-Chonburi.
- The ABB Terra 360 EV Charger is now switched on at the PEA VOLTA 7-11 station and is currently the most powerful EV charging station in Thailand and in Asia-Pacific region.
- Delivering up to 360 kW of power and a full charge in less than 15 minutes
- Adding 100 km in less than 3 minutes


ABB