

Service & Sustainability Focus Day

Morning
Session II



Maximizing sustainability of our day-to-day services

Mercedes Jul, Global Head of Product Management and Strategy
for Service Solutions & Power Consulting, Grid Integration at Hitachi Energy

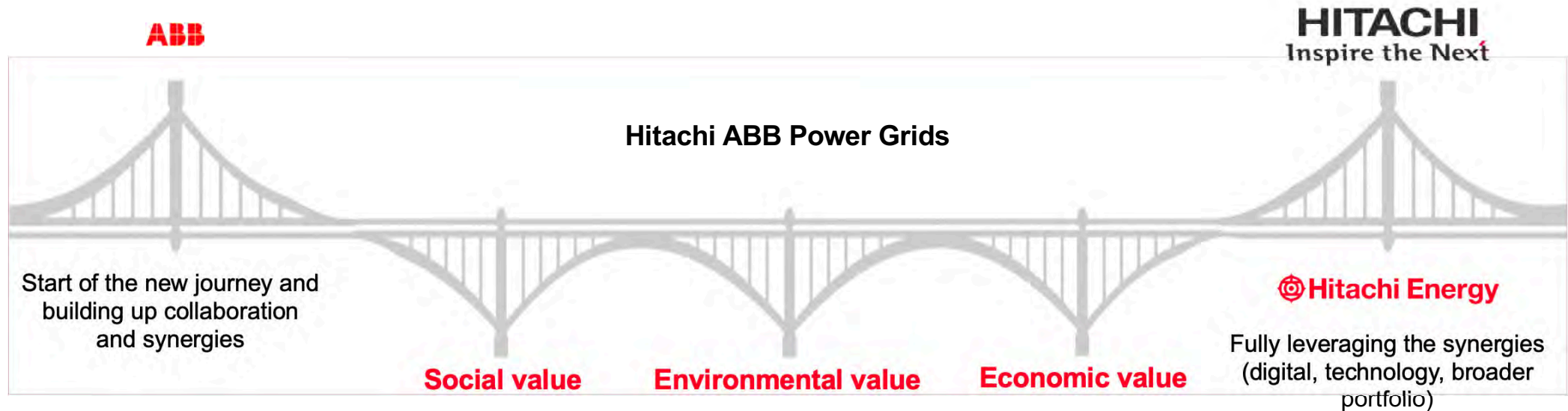


INTERNAL

HITACHI
Inspire the Next

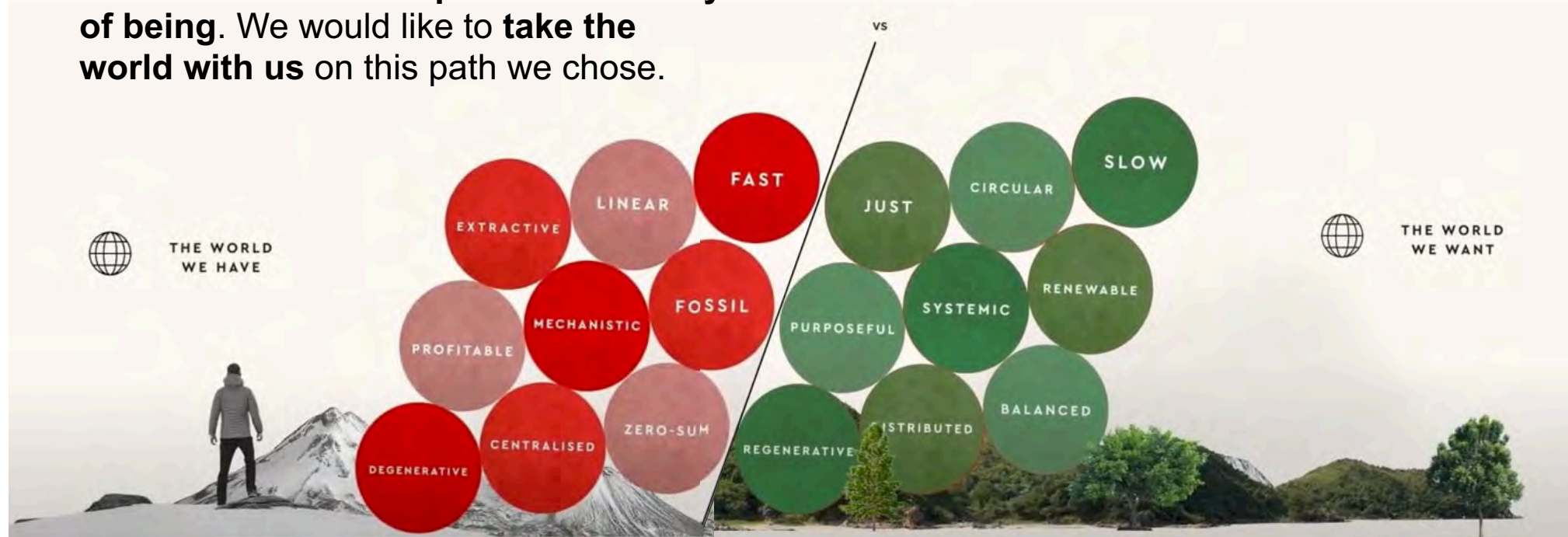
Maximizing the sustainability of our day-to-day services

Mercedes Jul, Head of Product Management and Strategy, Hitachi Energy



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We want to be a **climate change innovator**, using **digital technology** to connect the world and **power a new way of being**. We would like to **take the world with us** on this path we chose.



“

We have placed sustainability at the heart of our Purpose - Advancing a sustainable energy future for all

Claudio Facchin
CEO, Hitachi Energy



Our Targets

Planet

Carbon-neutral in our own operations

- ↓ 50% CO₂ emissions along the value chain
- ↓ 50% waste disposed
- ↓ 25% freshwater use
- ↓ 25% hazardous substances and chemicals

People

- Zero harm
- Top quartile health absence rates
- Life-long learning culture
- Increase female diversity from 19% to 25% by 2025

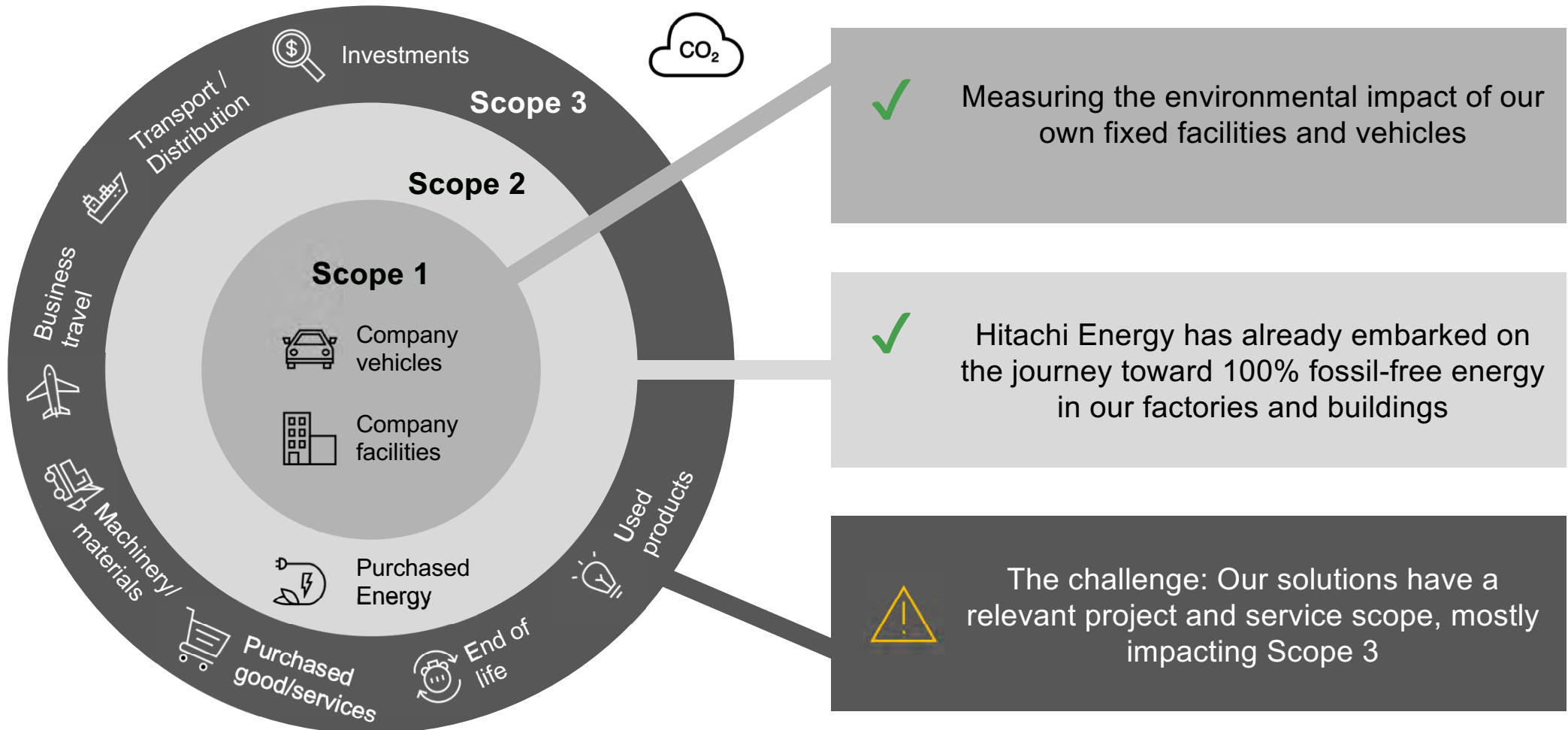
Peace

- Zero incidents of corruption and bribery

Partnerships

- Increase involvement in multi-stakeholder partnerships

The challenge: Measuring environmental impact of projects and services



Hitachi Energy and our service global footprint



Headquarters in
Zurich, Switzerland



12,000+ Service customers



World's largest installed base



200+ service centers



4 business units



1,500+ Field engineers



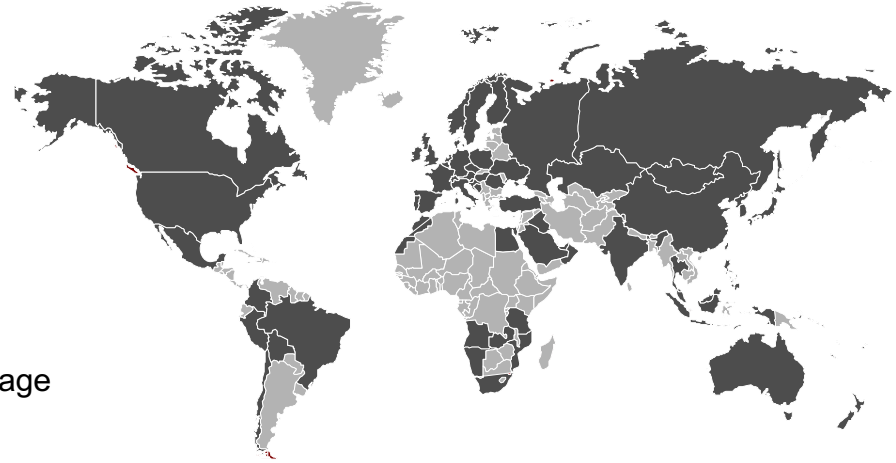
Present in ~90 countries
200 offices globally



150+ years of combined heritage



36,000 employees



■ Hitachi Energy Installed Base
■ Hitachi Energy Service presence



150+

HVDC-links



130,000+

Power Transformers



~150,000

HV Gas-insulated switchgears



10,000+

Substation systems



10,000+

Substation Automation Systems

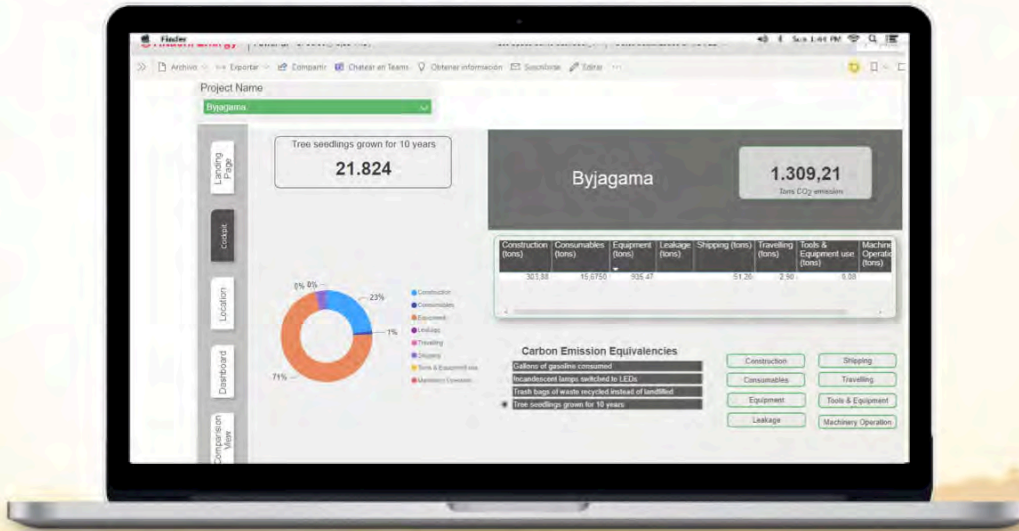
Our projects and services environmental reporting tool



Environmental reporting tool

A user-friendly tool to understand, quantify, visualize & analyze services and projects environmental footprint *

It is extendable to other phases of the lifecycle, such as operations, recycling, ...



Need

Fill the gap in existing solutions for environmental reporting



Detail LCA

Environmental impact of projects & services



Enterprise reporting

Why we chose this solution



Appropriate level of detail



Light into LCA's negligible phases



Accessible for execution teams

Why it is important for our customers



Growing need of a **reliable understanding of environmental performance** of projects and services, not only of products.

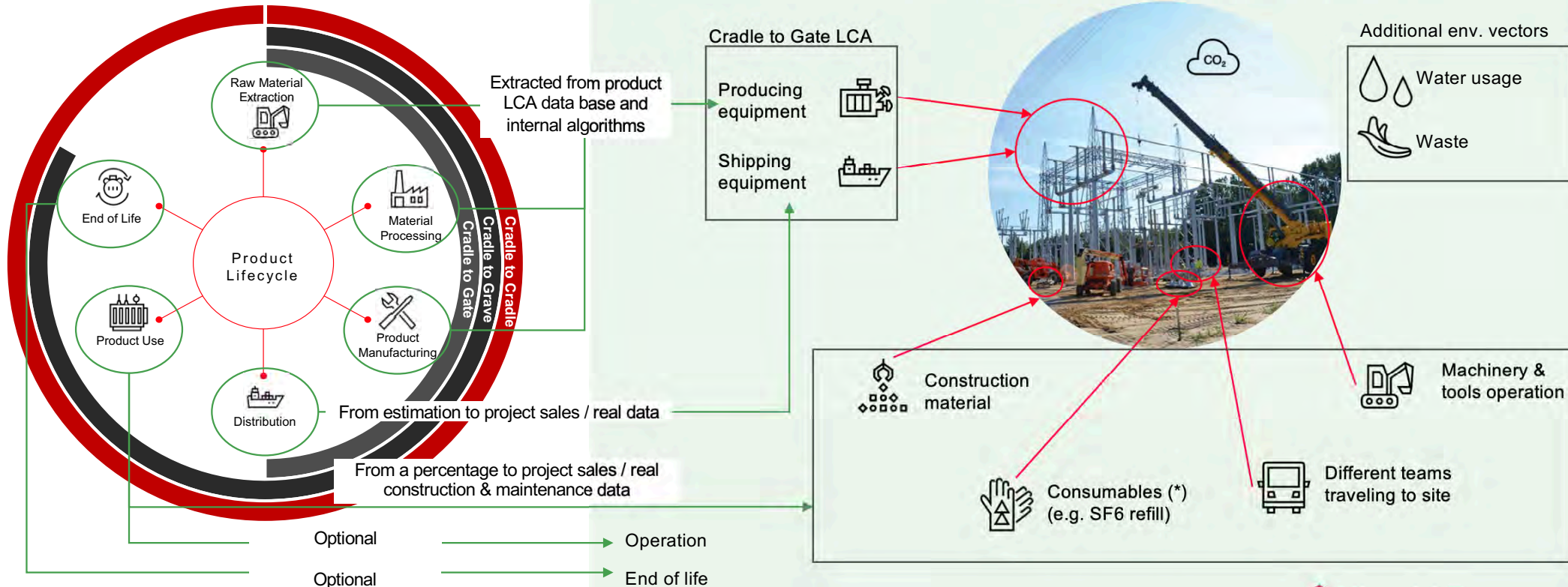
Life Cycle Assessment

(Product focus – Professional users)

vs

Environmental reporting tool

(Project / service focus – User friendly)



Our digital solutions allows us to re-think our offering, integrating sustainability.

Calculate

Increase the awareness of your environmental footprint through a comprehensive assessment and report

Cut

Reduce the environmental footprint of the activity by combining measures such as:

1. Use more sustainable products and material (e.g., Hitachi Energy EconIQ product portfolio)¹
2. Prevent unnecessary activities (e.g., reduce the frequency of a task or perform it more efficiently)
3. Reduce the footprint of each activity execution

Compensate

Define carbon-neutral and net-zero services identifying suitable compensation measures for residual environmental impact

Game-changer
The ways
towards **maturity**
into sustainability



1. Our EconIQ product portfolio offers you more environmentally friendly assets (SF6-free high voltage products, transformers with less pollutant oils, etc.).

**Replacement - 6 circuit
breakers**



**Including aluminium and
steel platform**

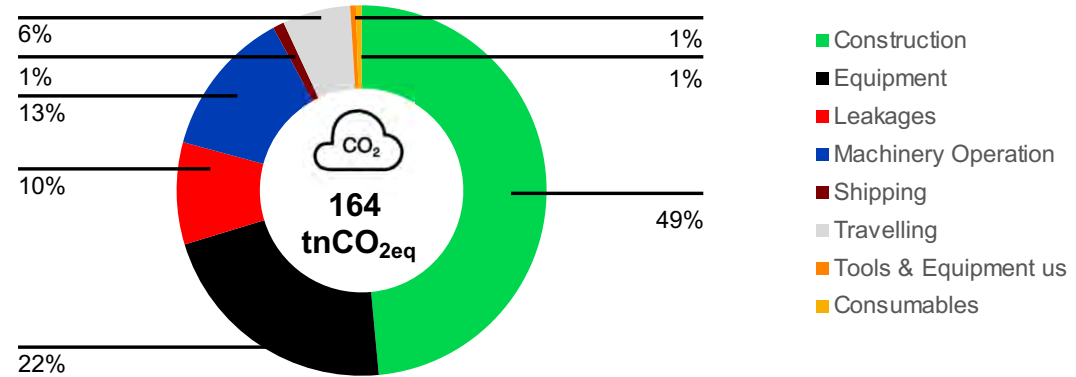


Remote location





Measure and evaluate our customers' carbon footprint



The amount equivalent to



GHG emissions avoided by

6213

Incandescent lamps
switched to LEDs



CO₂ emission from

18456

Gallons of gasoline
consumed



GHG emissions avoided by

7100

Trash bag of waste
recycled instead
of landfilled



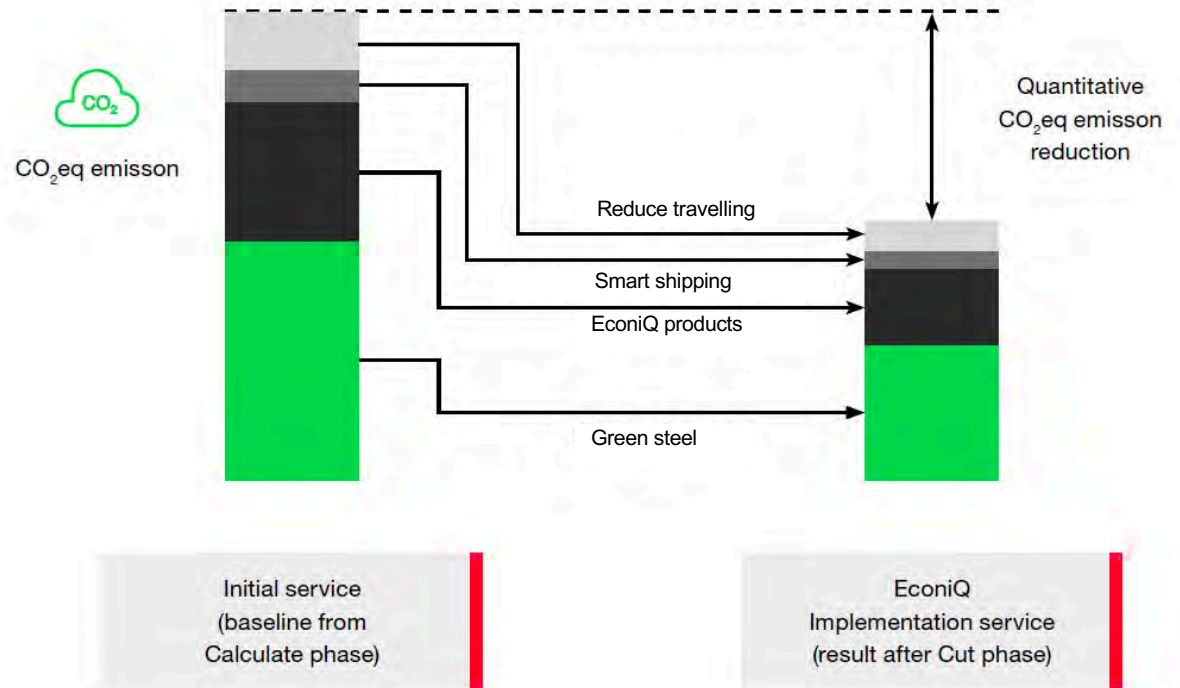
Carbon sequestered by

2734

Tree seedlings grown
for 10 years

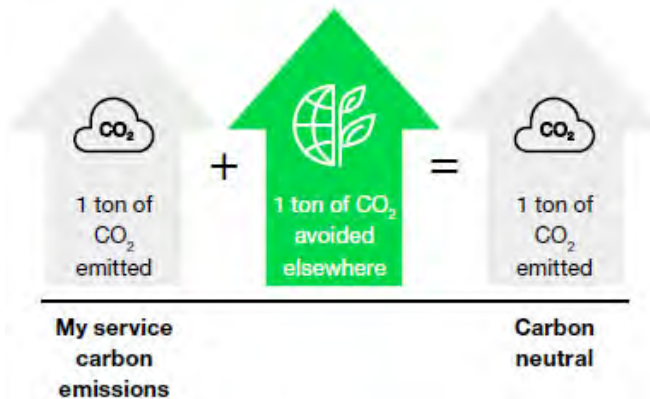


Reduce and optimize carbon footprint. Design the **alternative with lower emissions**

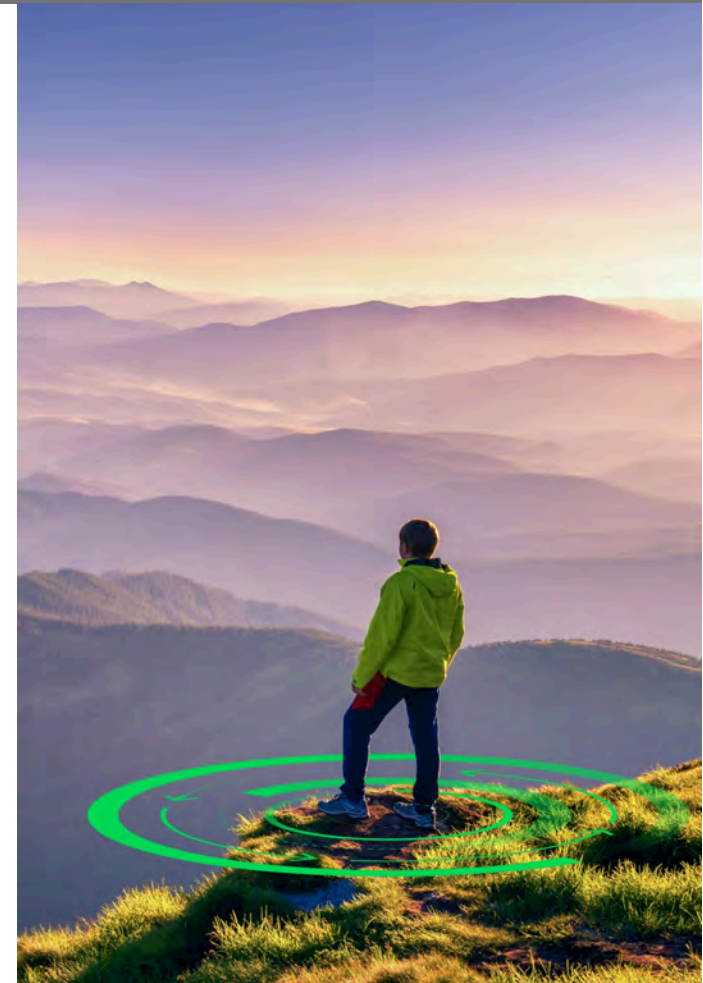
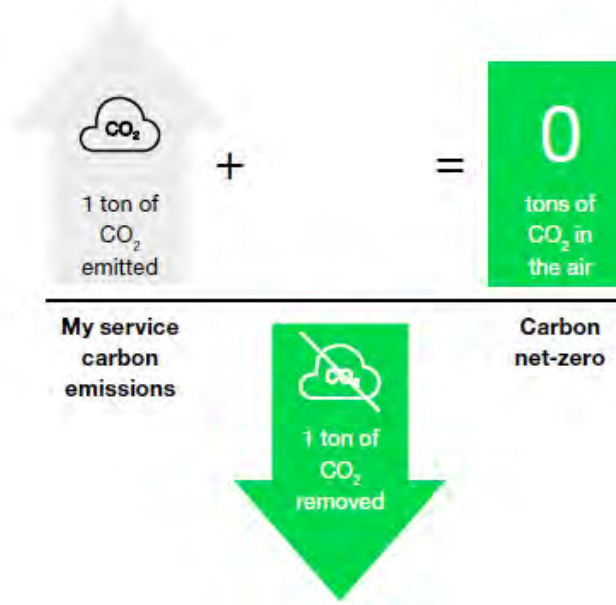


Offsetting and capturing CO₂ from the atmosphere to provide **carbon-neutral** or **net-zero** services

CO₂ Offset



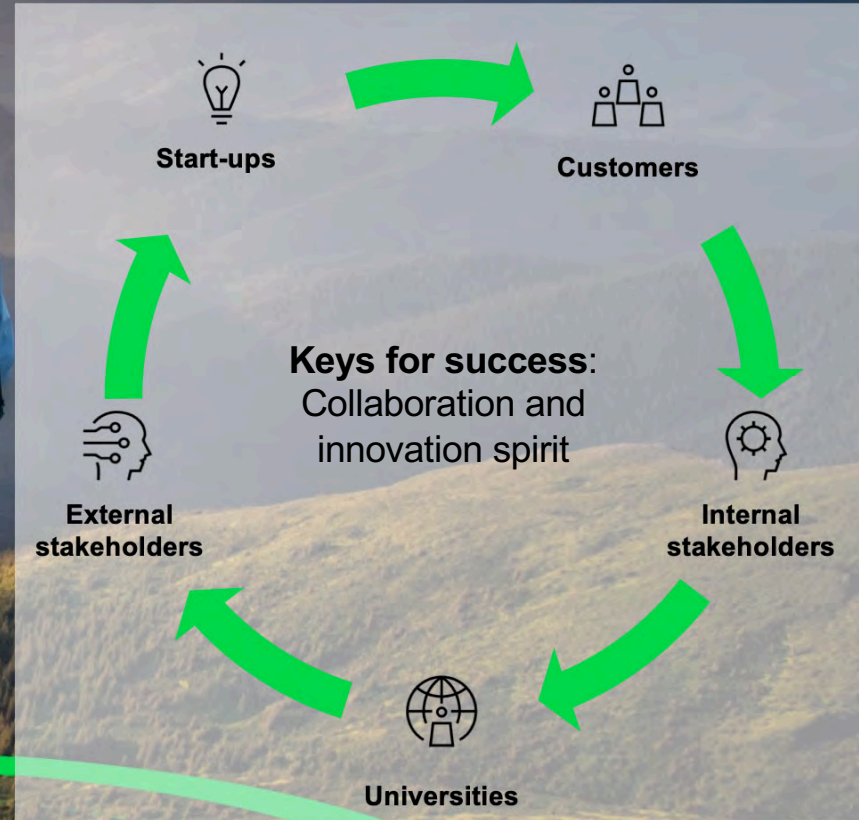
CO₂ capture

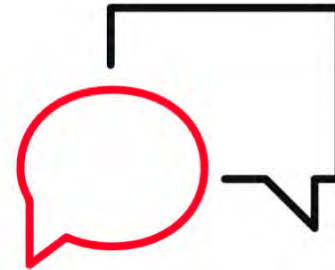


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At Hitachi Energy, we are championing the urgency of a clean energy transition, through innovation and collaboration.

Claudio Facchin
CEO, Hitachi Energy





Q&A

Mercedes Jul Sánchez

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