

Manufacture #LikeABosch

Producing Technology Invented for Life

Dr. Stefan Hartung

Chairman of the board of management
Robert Bosch GmbH

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Producing Technology Invented for Life

Bosch business sectors



**Mobility
Solutions**



52.6bn
(60%)



233,000



**Industrial
Technology**

6.9bn
(8%)

34,000



**Energy and Building
Technology**

7.0bn
(8%)

34,000



**Consumer
Goods**

21.5bn
(24%)

83,000

in 2022

Producing Technology Invented for Life

Bosch vast manufacturing history



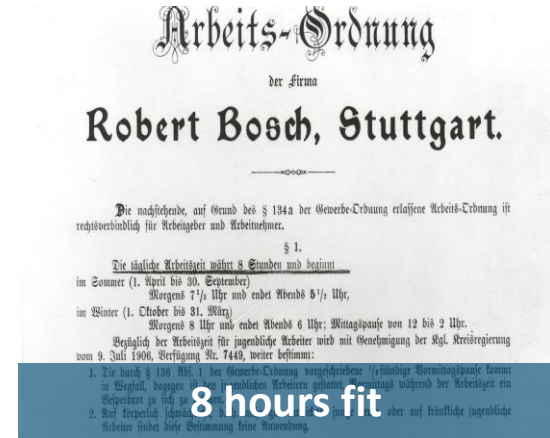
Safe energy - lights off



Climate-neutral energy



An advanced factory



8 hours fit



Pacing up output



Simultaneously



Nearly invisible



People and machines

Producing Technology Invented for Life










Bosch sustainability target picture



Bosch Sustainability Target Picture

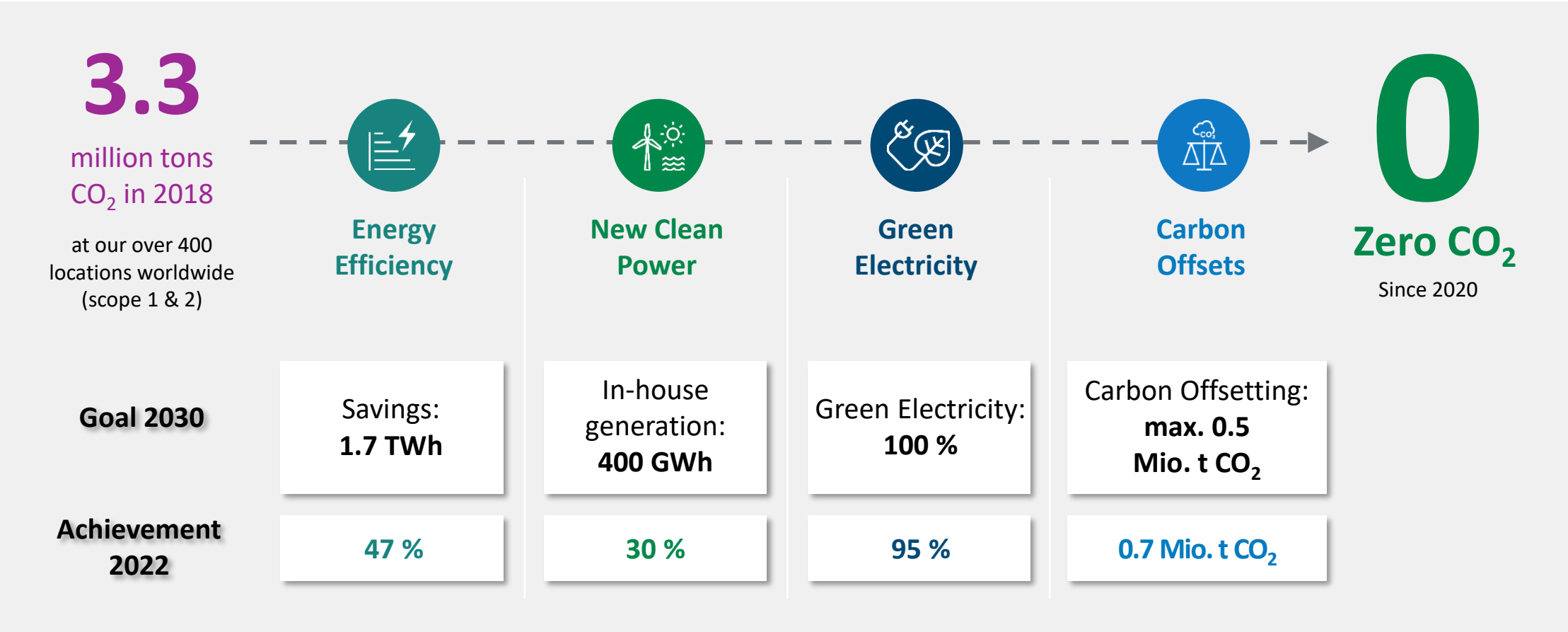
Climate action and Circular economy



Value Chain		Upstream	Bosch (own operations)	Downstream
Energy (CO ₂)	1 Energy Efficiency 			
	2 New Clean Power 		 Climate action	
	3 Green Electricity 			
 CO ₂				
Material	1 Materials efficiency 			
	2 Second life 		 Circular economy	
	3 Recycled materials 			

Bosch Climate Action

Zero CO₂ since 2020 – Our achievements & goals 2030



Bosch Climate Action – Manufacture #LikeABosch

Energy Efficiency



Goal achievement for energy efficiency
Status: 2022

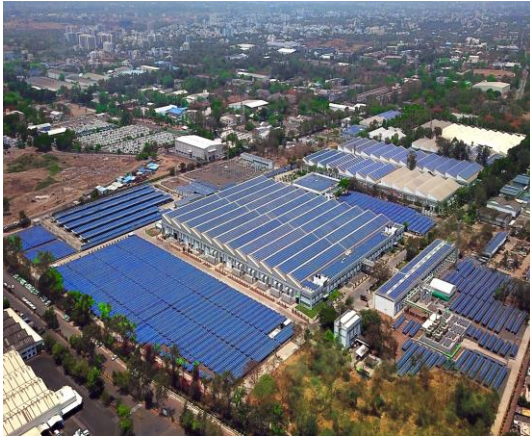


Goal 2030: 1.7 TWh

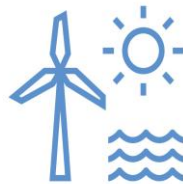
- More than 4,000 projects worldwide
- Savings potential of 0.8 TWh captured

Bosch Climate Action – Manufacture #LikeABosch

New Clean Power



Goal achievement for new clean power
Status: 2022



Goal 2030: 400 GWh

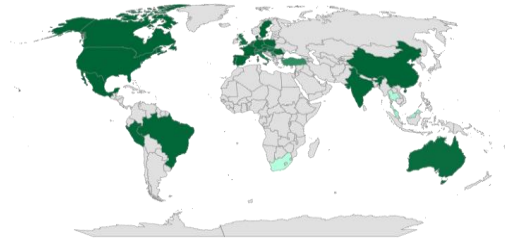
- 121 GWh of renewable energy generated at Bosch
- New photovoltaic systems at 31 sites were installed

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Green Electricity



Share of Green Electricity [%]



Goal achievement for green electricity sourcing
Status: 2022

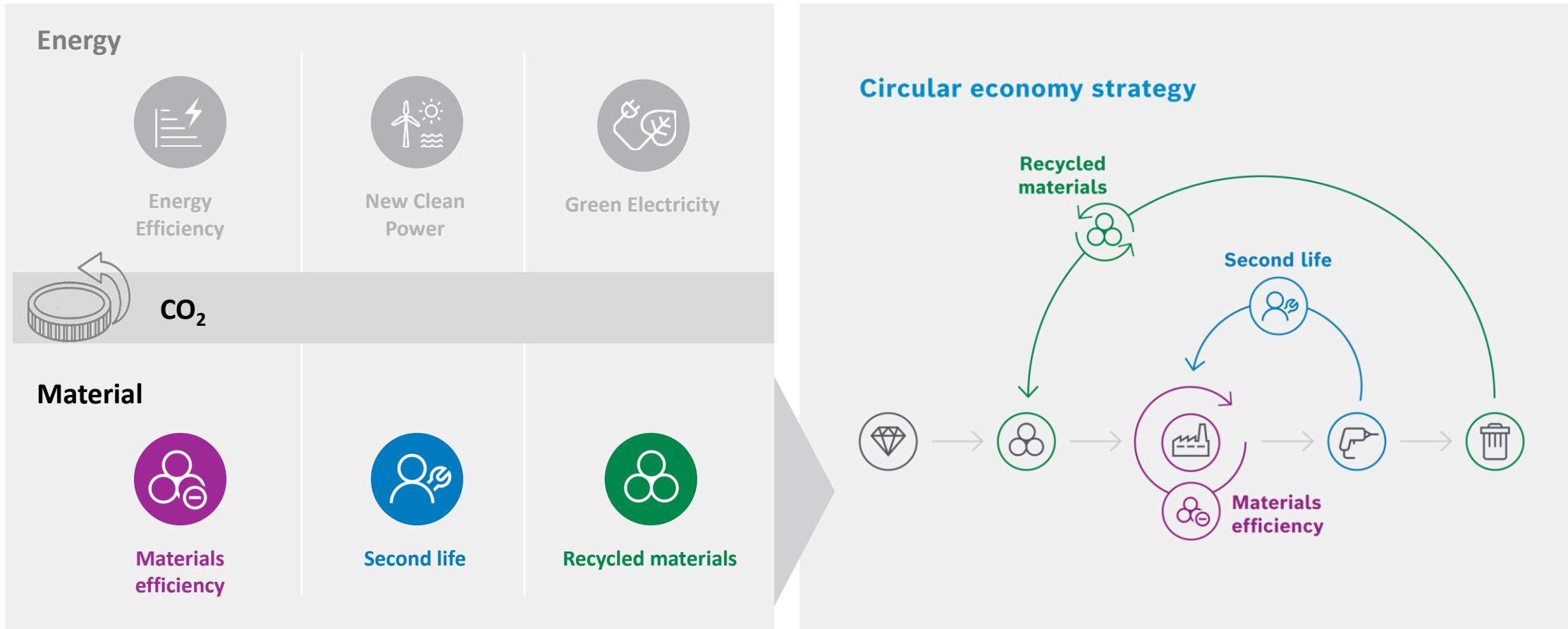


Goal 2030: 100%

- 371 locations in 33 countries with green electricity
- Energy-independent location in Eisenach

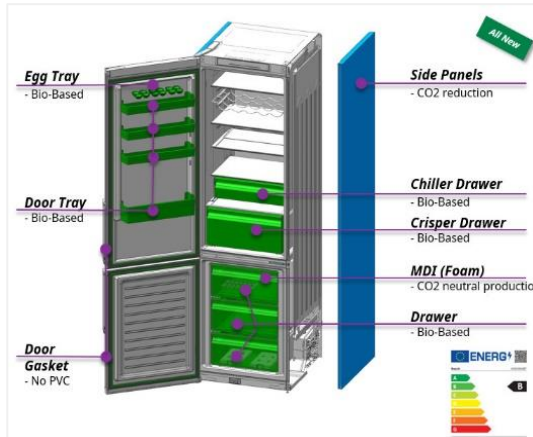
Climate Action and Circular Economy

Energy and Material – Two sides of the same coin



Circular Economy – Manufacture #LikeABosch

Materials Efficiency



Bosch Green Collection fridge freezer

- Reduced CO₂ steel footprint by 70%
- Bio-based & CO₂-neutral materials

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Second Life



Bosch eXchange

- ~2 Mio. components yearly
- 3,100 tons of material saved
- CO₂ savings of 8,600 tons

Circular Economy – Manufacture #LikeABosch

Recycled Materials

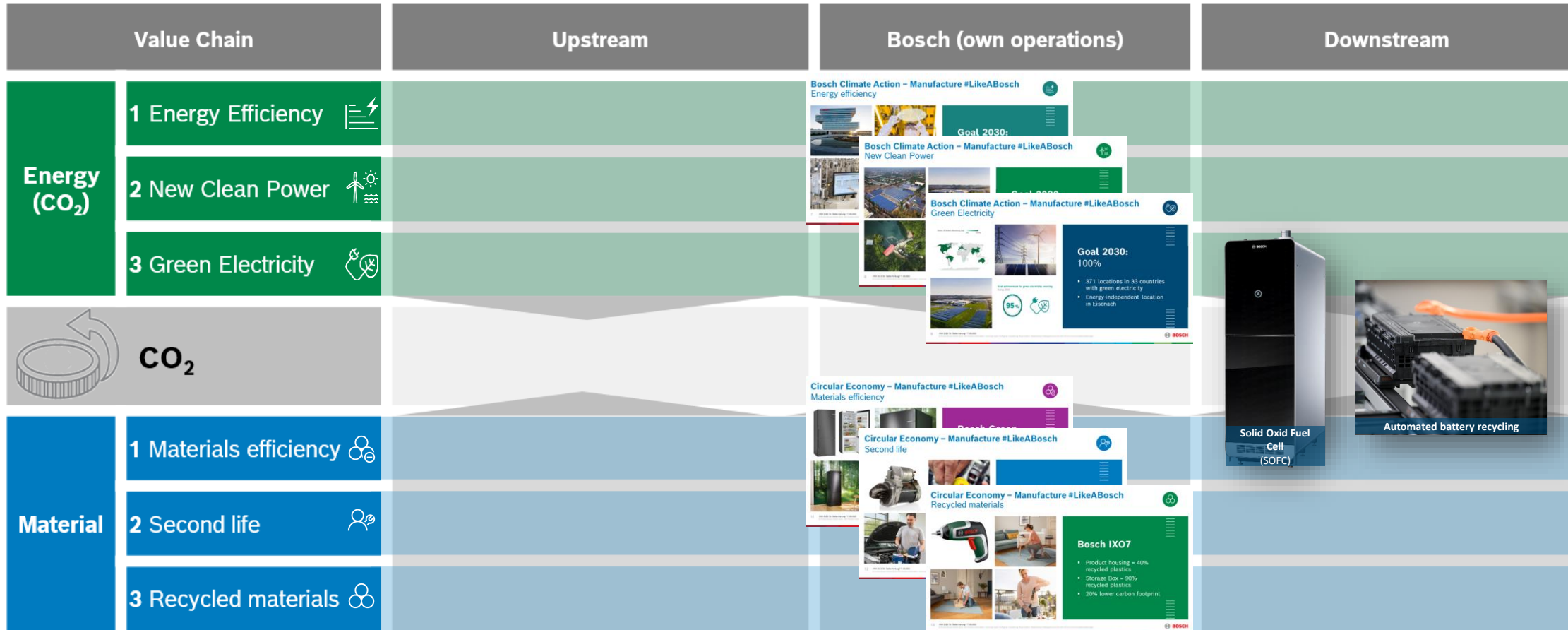


Bosch IXO7

- Product housing = 40% recycled plastics
- Storage Box = 90% recycled plastics
- 20% lower carbon footprint

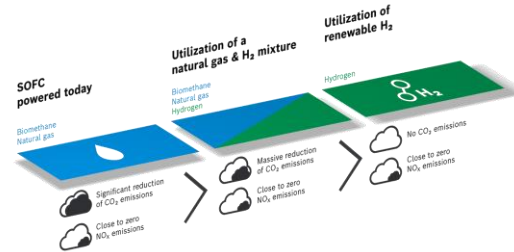
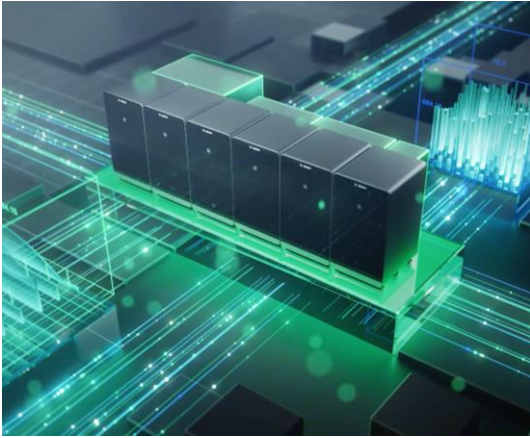
Climate Action and Circular Economy

Whole value chain contribution



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Bosch products invented for life – Downstream



Solid Oxid Fuel Cell (SOFC)

- Real data based management of materials
- Digital Twins population combined with AI makes possible "learning"

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Bosch products invented for life – Downstream



Automated battery recycling

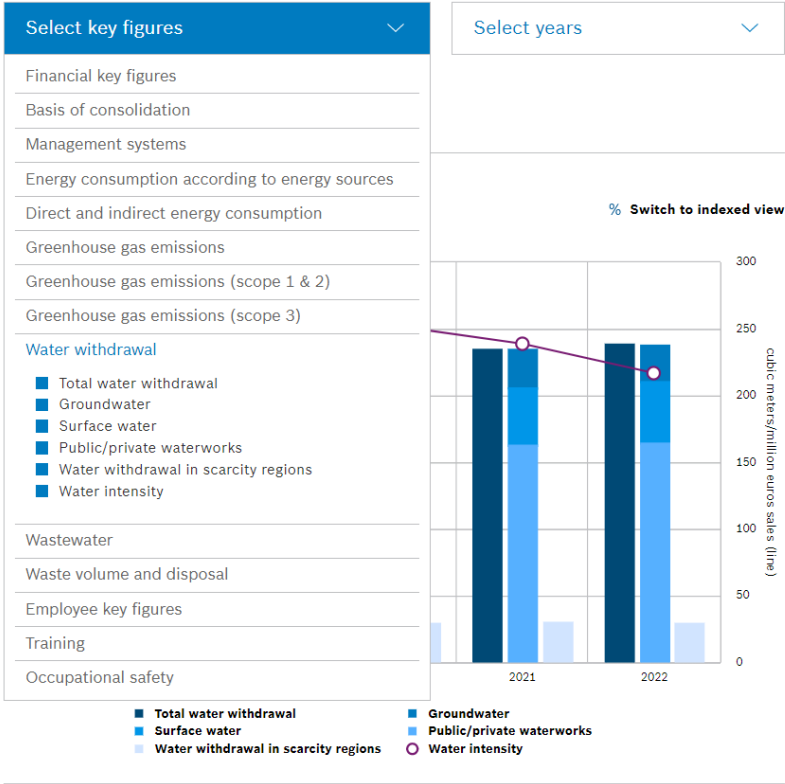
- Fully discharged batteries for recycling
- Discharging process leads to chemical inactivity of cells
- Quick scaling based on Bosch ctrlX automation platform

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Further information



With our annual sustainability report, we make our actions transparent – comprehensively and comparably, in accordance with the guidelines of the Global Reporting Initiative.



Find out more at sustainability.bosch.com

Thank you.

