

Sustainability and Our Approach to Climate Actions at Grundfos

Ghiri Mukti Mustika Buana, Area Sales Manager, ENERGY/HEAVY-IND South Asia

GRUNDFOS 

Possibility in every drop



**Climate action
& impacts**



**Population &
urbanisation**

**Our
world the
day after
tomorrow**



**Natural
resources**



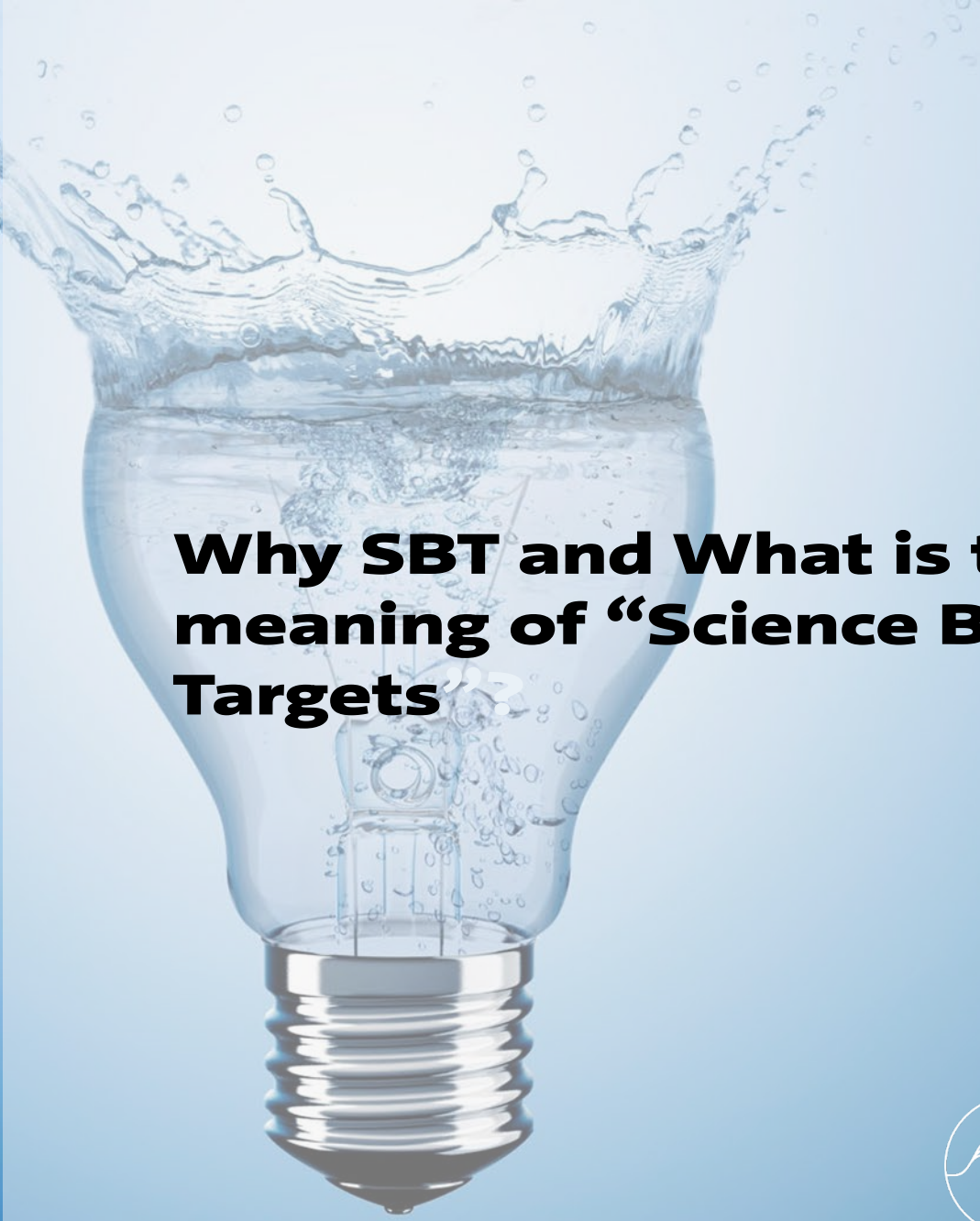
**Digital
transformation**



WATER AND ENERGY
ARE STRONGLY CONNECTED,
**WE NEED A GLOBAL
AGENDA FOR BOTH**



Science Based Targets provide a clearly-defined pathway for companies to reduce greenhouse gas (GHG) emissions, helping prevent the worst impacts of climate change and future-proof business growth.



Why SBT and What is the meaning of “Science Based Targets”

...We All Play An Active Role To Secure



POLITICIANS

MUST LEGISLATE TO
SECURE OUR WATER
& USE OF HIGH
EFFICIENCY
PRODUCTS



CITIES

MUST IMPLEMENT
AVAILABLE
SOLUTIONS

REDUCTION OF
DISCHARGE OF CO2
BY USING HIGH
EFFICIENCY
PRODUCTS &
SOLUTION



COMPANIES

MUST PRIORITISE
RESPONSIBLE WATER
& ENERGY
SOLUTIONS



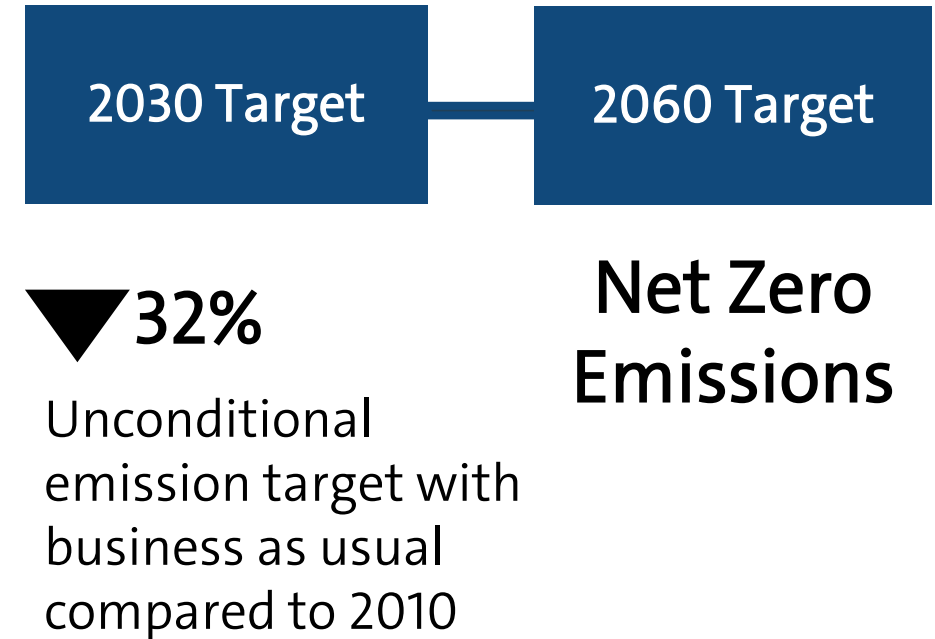
PEOPLE

MUST
ACKNOWLEDGE THE
VALUE OF WATER &
USE OF ENERGY

Indonesia Net-Zero Emissions towards 2060



-  **Energy Management with above 6,000 tones of oil equivalent energy consumption:** According to regulation 70/2009, companies consumed a certain amount above would need to adapt energy management initiatives including develop an energy conservation plan, perform energy audit and report the consumption to the government
-  **Ambition to only electric-powered cars and motorbikes by 2050.** Indonesian government would like to boost the market demand of EV cars and its industry to support energy transition roadmap
-  **Clean and Renewable Energy:** Ambition to substitute natural gas with green hydrogen utilization



SBT: A Commitment from APAC based companies



With more business activities in APAC, the Asia based company play an important role in contributing to the SBT.

Global companies also have operations in APAC and SBT will be extended to their operation in APAC.



SBT Opportunities in Indonesia



Int. Companies

68



Sites

327



Indonesian Companies

14



Sites SQF

53M



Industrial Manufacturing (Mobility, Semicon, Others)



ISUZU



Food & Beverage



PHILIP MORRIS INTERNATIONAL



Pharmaceutical & Biotech



Lonza



L'ORÉAL



**Our purpose
is to pioneer
solutions to the
world's water and
climate challenges
and improve quality
of life for people**

Poul Due Jensen

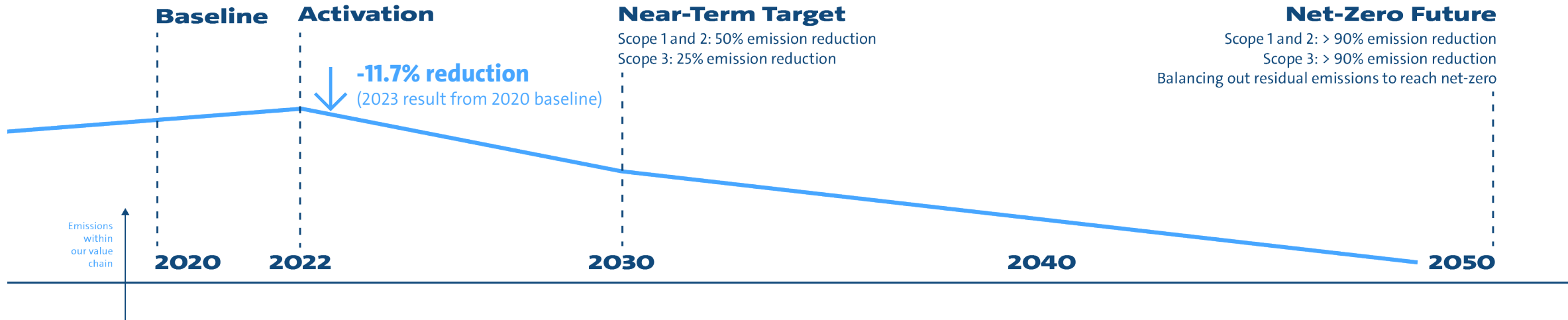
CEO and Group President

We are the first water solutions company with a validated science-based net-zero target

Validated by:



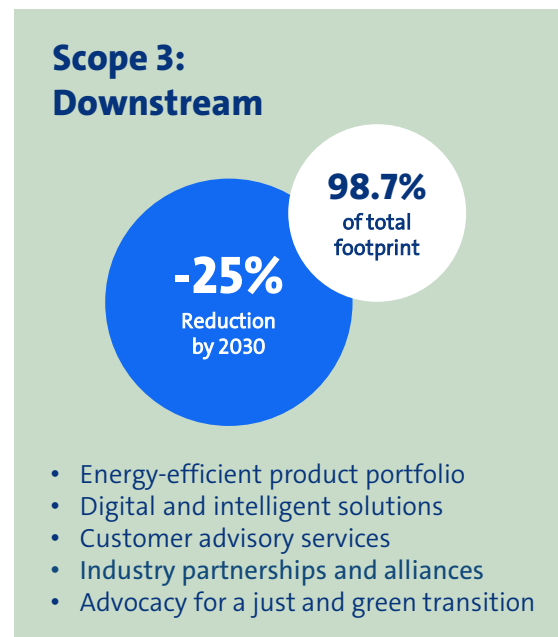
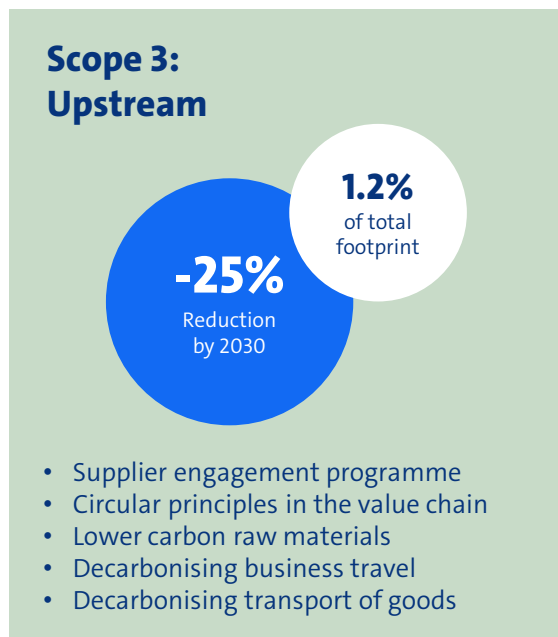
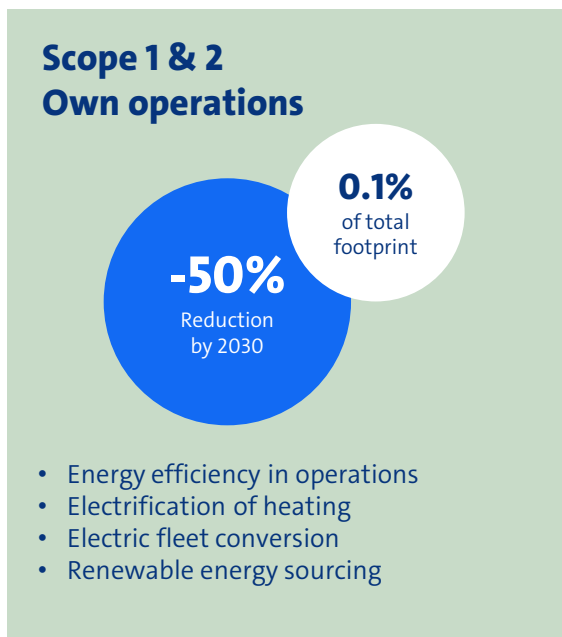
SCIENCE
BASED
TARGETS



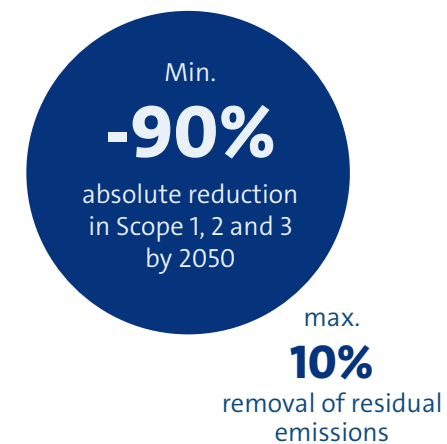


Our science-based net-zero journey

Decarbonisation roadmap towards 2030 and beyond.



Net zero by 2050



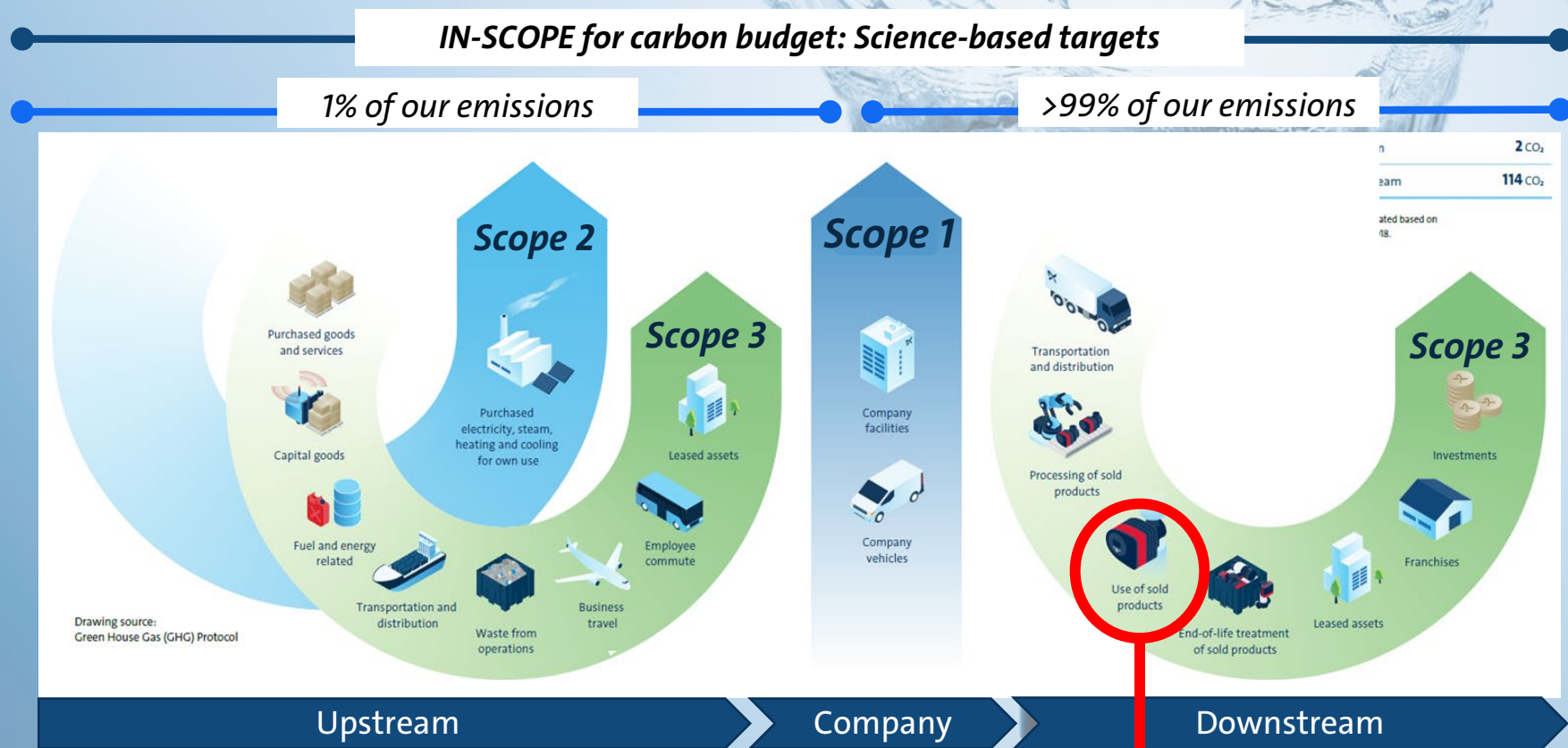
Baseline (2020):
119,720,000 tCO₂e



SBT : What is in-scope of a Science Based Targets?



What is our **ROLE** in the scope as a Manufacturer/Distributor or as a supplier to our customers?



Use of Sold Product

- GHG emissions from electricity consumption during the lifetime of the product
- Estimated to be 99% of Grundfos' total emissions in SBT scope



**Intelligent e-pumps
and system design
can reduce the
pumps' energy
consumption with an
average of**

37%

Source: Grundfos calculation based on data in "European Commission, 2018. Ecodesign Pump Review" report.

Industry uses a lot of energy – with significant environmental impact

By 2030 Energy
consumption in
Industry is expected
to grow by

35%

38%

of the global total
energy use comes
from the industrial
sector*

10%

Of the energy
consumed by
Industry is related to
pumps and pump
systems

Source: International Energy Agency's (IEA) Energy
Technology Perspectives 2020 report, Internal expert
assessment, Grundfos

SBT : One Offering Portfolio



Grundfos Solutions Offering on Sustainability Co-creation with You!

Standard High Energy Efficiency Products (S)



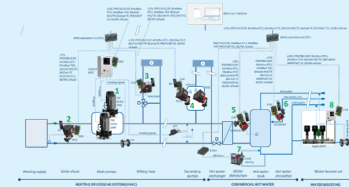
E-Products for different Applications (E)



Intelligent SOLUTIONS (i-Solution) (I)



Digital Solutions (D)



Network & Interface



Professional Service & Solutions (S)



System Analysis & Optimisation





**PUMP SOLUTIONS ARE CENTRAL TO
OVERCOME THE GLOBAL WATER & ENERGY
CHALLENGES**

**ACCOUNT FOR A MASSIVE 10% OF THE
WORLD'S ELECTRICITY CONSUMPTION**

**ONLY WITH MORE ENERGY EFFICIENT
PUMP SOLUTIONS CAN THIS NUMBER BE
REDUCED SIGNIFICANTLY**



Thanks for your participation!

