

ECOMONDO HYCOOL

Point of view from an industrial partner

6 NOVEMBER 2019

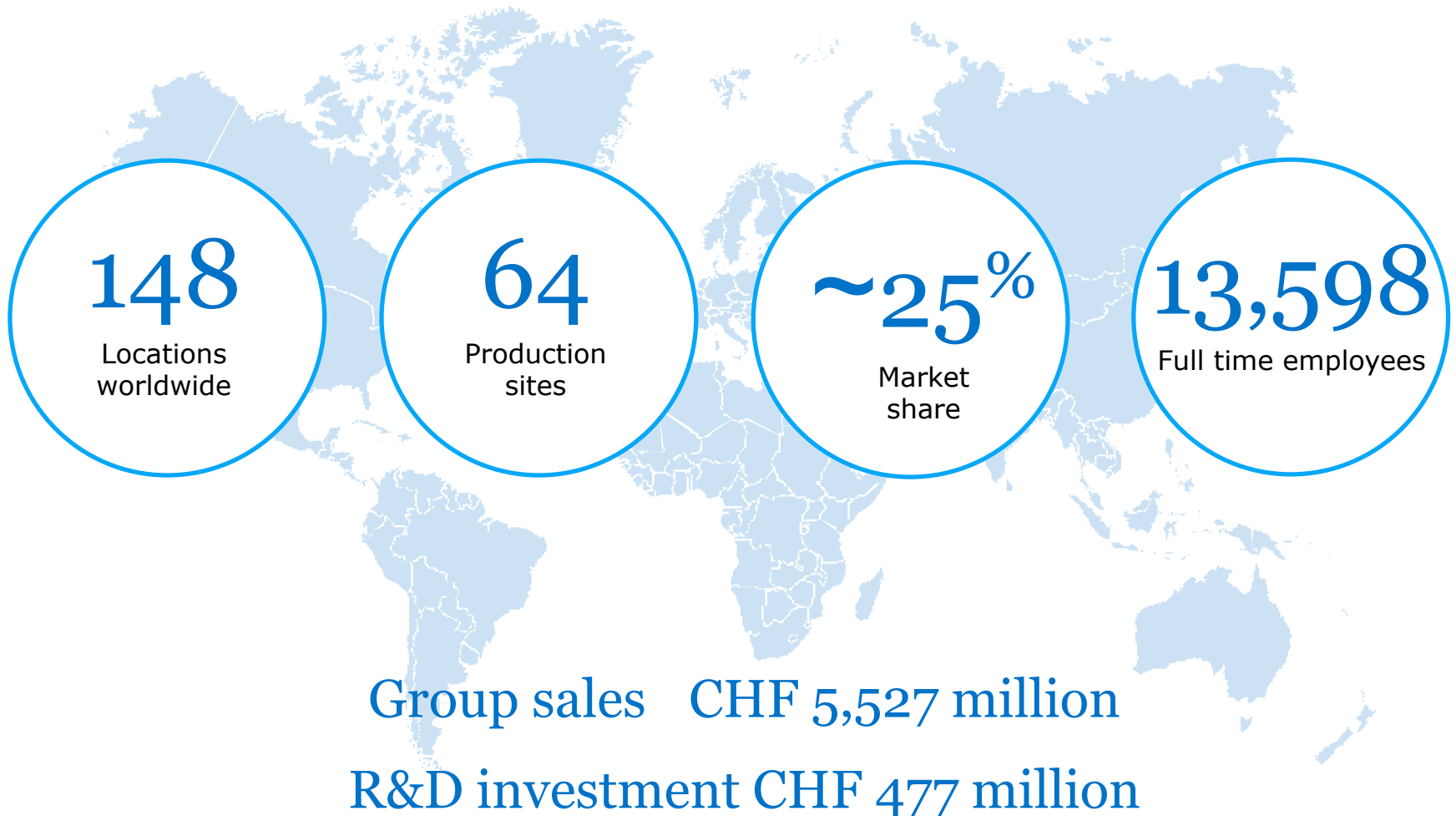


Givaudan

engage your senses

People across the planet express their individuality
Through scent and taste that enrich their lives

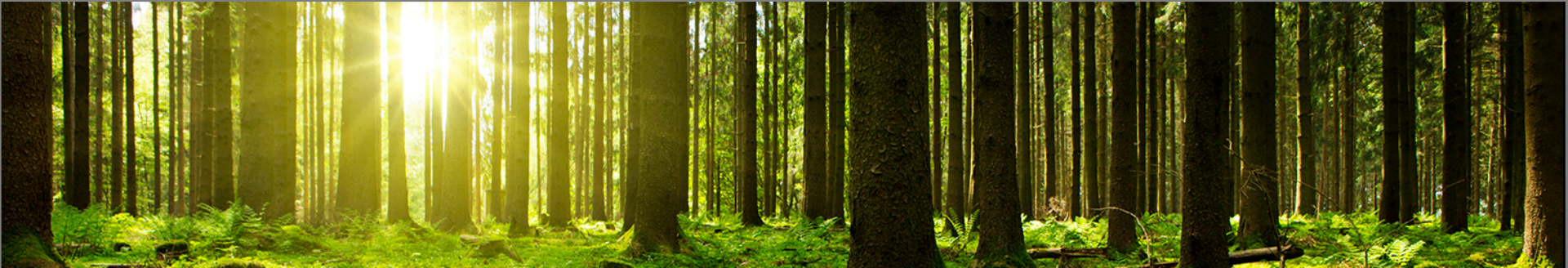




Context and upgraded GHG emission target (SBT)



We aligned the ambition level of our Science Based Targets to limit global warming to 1.5°C



In September 2019, Givaudan **aligned** the ambition level of our **Science Based Targets (SBT)** to **limit global warming to 1.5°C** (new scientific evidence).

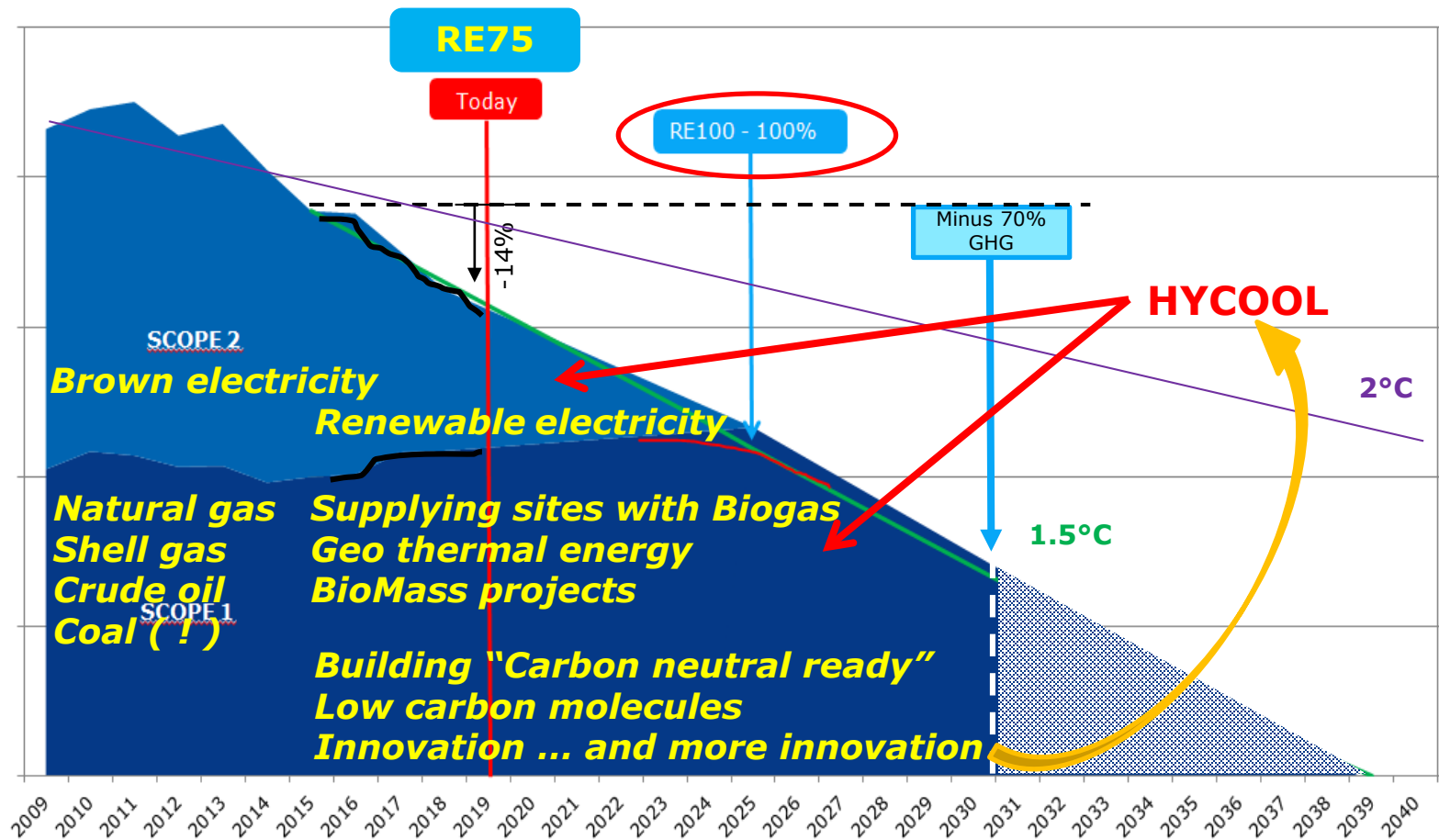
Givaudan commits to reduce absolute Scope 1 and 2 GHG* emissions by 70% between 2015 and 2030

In order to reach the target, there is a need to **decarbonize our business** (decouple growth and GHG emissions)

* Greenhouse gas emissions

4. New GHG emissions trajectory

Reducing our dependency on fossil fuels



(in addition to energy savings workshops)

Evolution of sustainability commitment



Direct and indirect CO₂ emissions
stabilise our absolute carbon footprint



Energy consumption
4% reduction, per tonne of product, year on year on average



A **science-based target** addressing our **scope 1, 2 and 3 GHG emissions** (target year 2030)



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION



Waste production
4% reduction, per tonne of product, year on year on average



Water usage
15% reduction per tonne of product from 2010 to 2020

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Key features relevant to Givaudan operations

- By nature of its business, Givaudan activity relates to a **wide range of chemical processing**: distillation, extraction, batch production
- Overall Givaudan is very interested in heating and cooling technologies with storage capability in order to address the **flexibility** required by the operation
- Hycool projects offers the opportunity to challenge the technology with **installed capacity fully relevant to industrial usage** (200 kW).
- Testing period is 1 years which provide all the **robustness of testing**



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Complementary partners

- EU targets to demonstrate how HYCOOL is relevant in an industrial context.
- The consortium is composed of partners bringing specific know how to the projects.
 - **Thorough design** – taking into account all site requirements including safety,
 - Interface with control system – ensuring **optimized operation** in conjunction with existing boilers and chillers,
 - Equipment manufacturers – proposing different scenarii to demonstrate **flexibility**,
 - **R&D** and normalisation – investigating best in class adsorbant media for chillers,
 - Project management – **delivering end to end project**
 - **Communication** and dissemination – organizing content, media and timing for communication



Our People and Partners



Thank you

Contact