

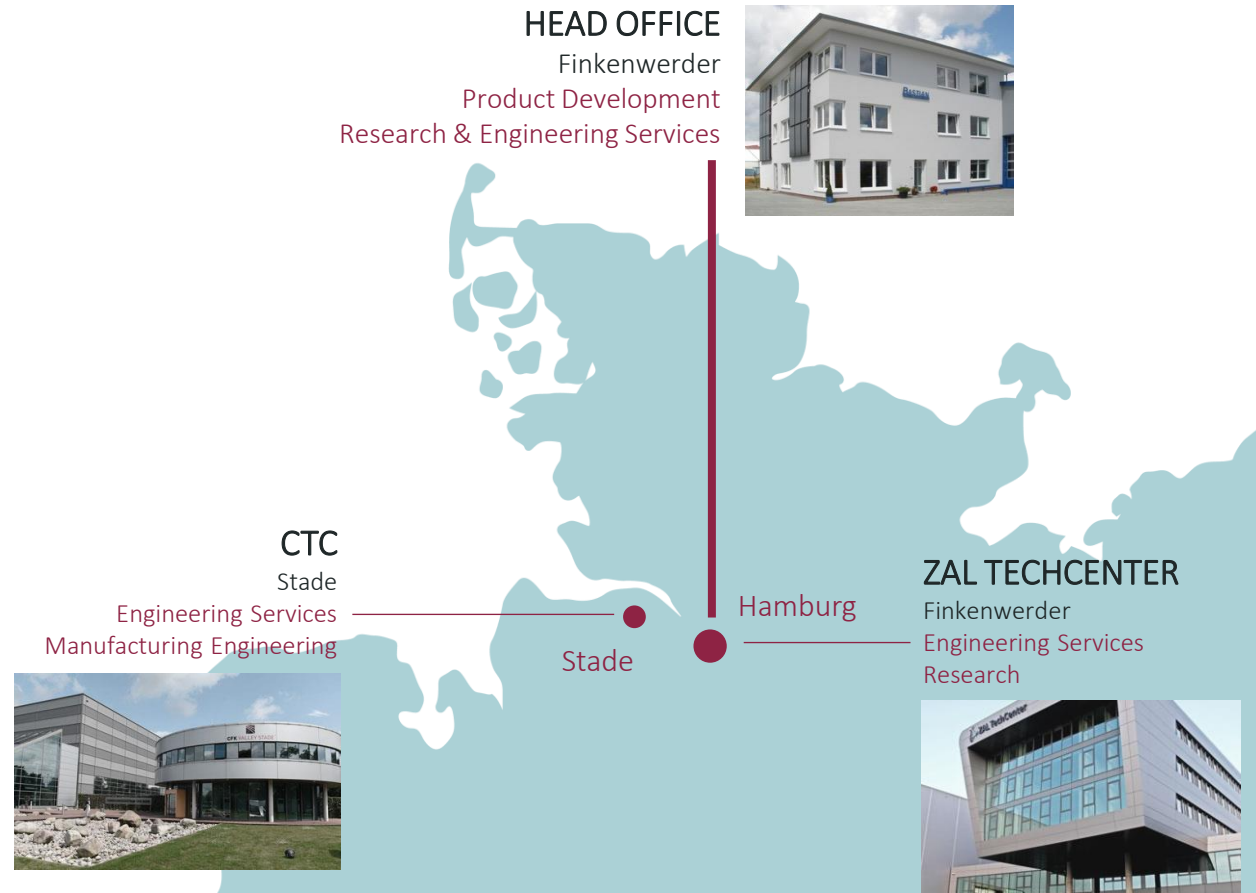


BLANCAIR to X – Kraftstoffe aus Wasser & Luft

28. Windenergietage Potsdam 2019

Factsheet

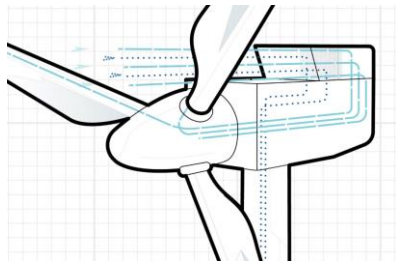
- 2007 founded by Jörg Spitzner
- an SME with approx. 35 employees
- 3 locations
- for 3 decades active in the aviation and wind energy industry
- direct supplier status at AIRBUS (R&D)
- more than 80 publications and patents
- SPITZNER ENGINEERS GmbH is certified by



Fields of activities

from wind energy
to climate engineering

since 2017: Climate Engineering



CEL
CLEAN
ENERGY ONE

BLANCAIR
captures energy & cleans the air

since 2010: Wind energy industry



GERMAN
RENEWABLES
2013 AWARD
TECHNOLOGY | SYSTEMS | MARKET

33
BEST
BLADES

WPA
N E O

Cross Innovation

To transfer developed
technologies & know-how
from one industry to
another

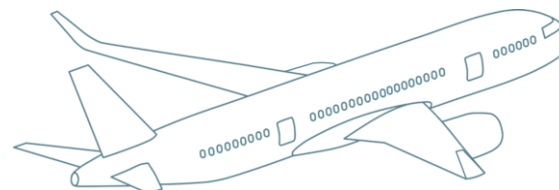
What does the future
of aviation look like?

2019



Engineering3
D Print
Solutions

2007 - today: Aircraft industry



direct supplier
status (R&D)

AIRBUS
GROUP

„from wing to wing“



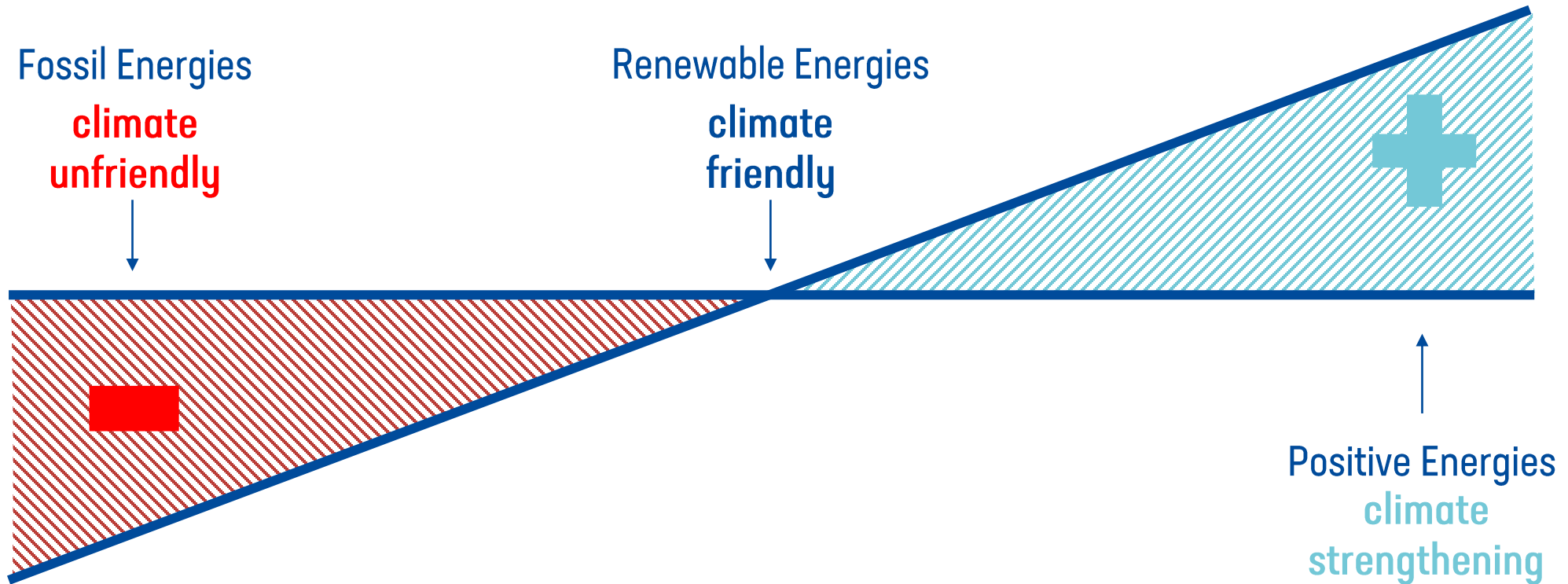
BLANCAIR

captures energy & cleans the air



IT'S TIME FOR
THE CLEANEST ENERGY

THE VISION






First industrial energy production that generates clean energy and cleans the air at the same time



IPCC

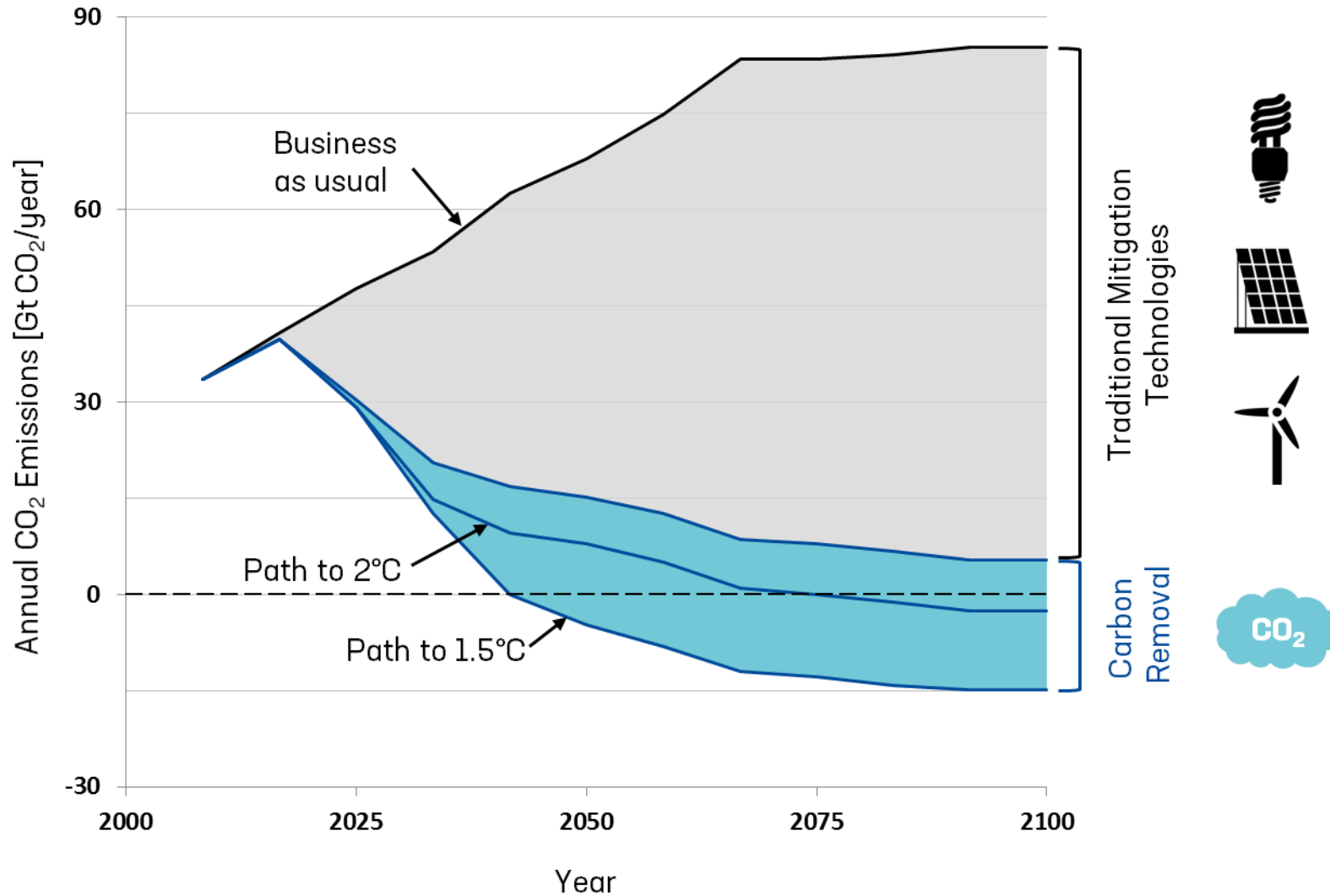
Intergovernmental Panel on Climate Change

Report on the impact of limiting global warming to 1.5°C instead of 2°C
6000 scientific **publications** by **91 authors** from **40 countries**

Coral population	100%	10 - 30%	0%
			
Global Temperature	T_0	$T_0 + 1.5^\circ\text{C}$	$T_0 + 2^\circ\text{C}$

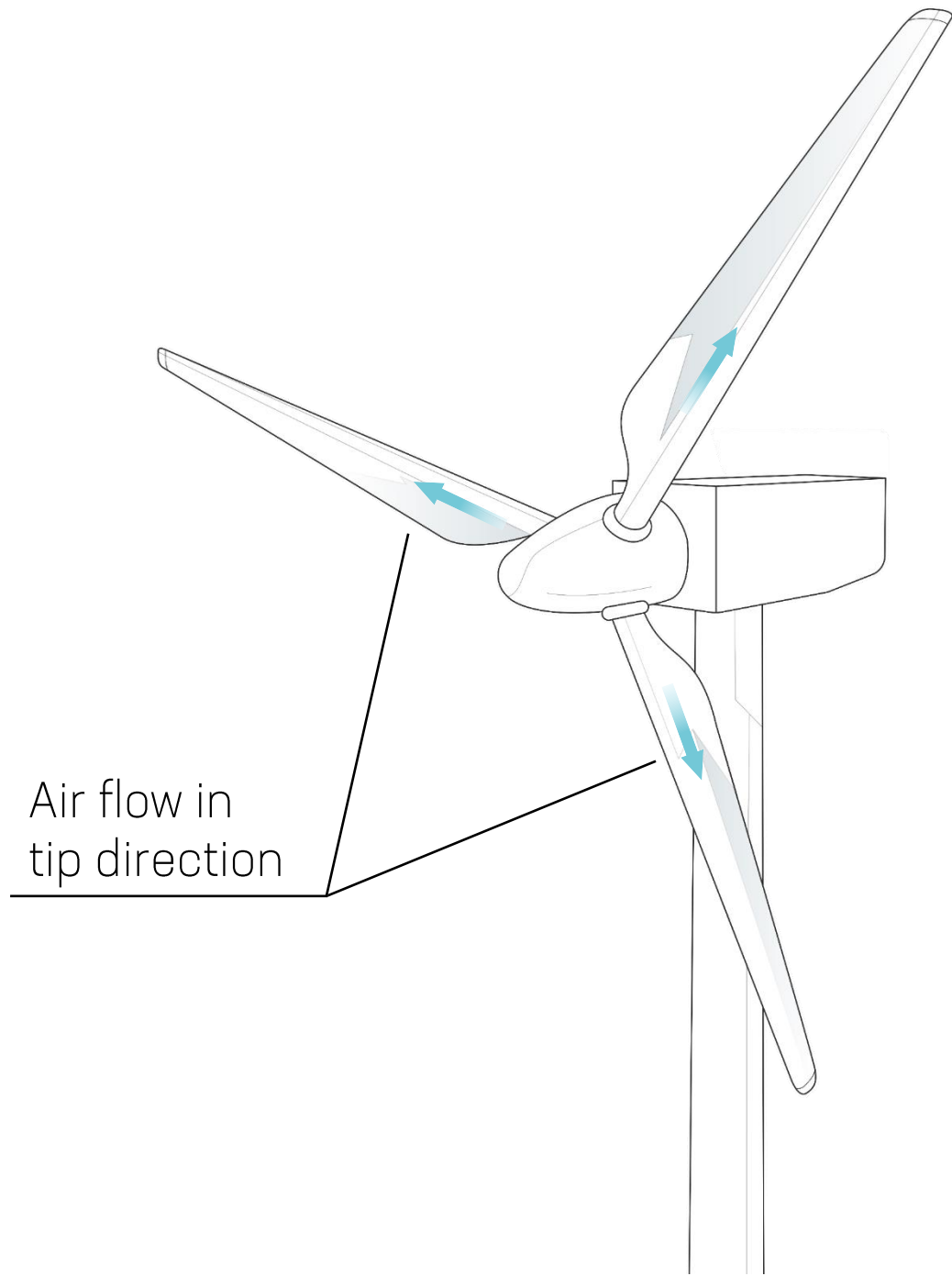


THE GLOBAL CHALLENGE

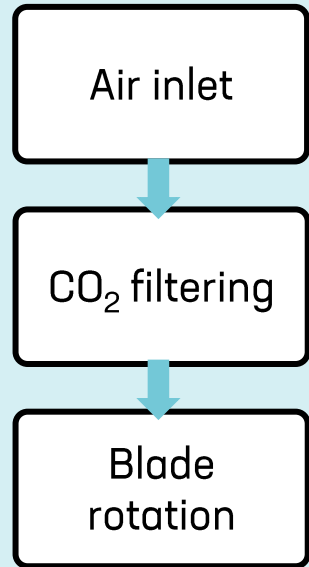
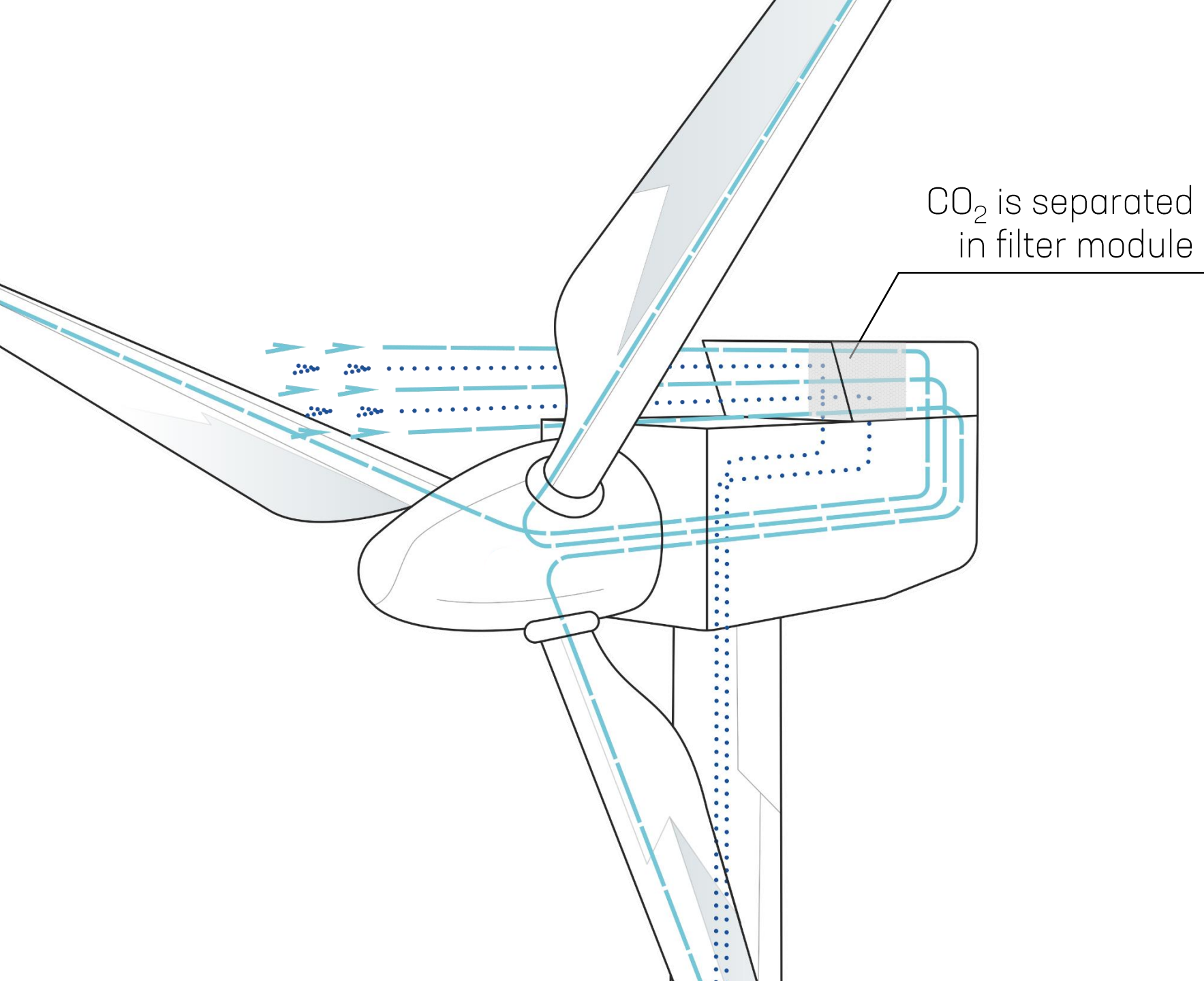


Energy demand worldwide is increasing.





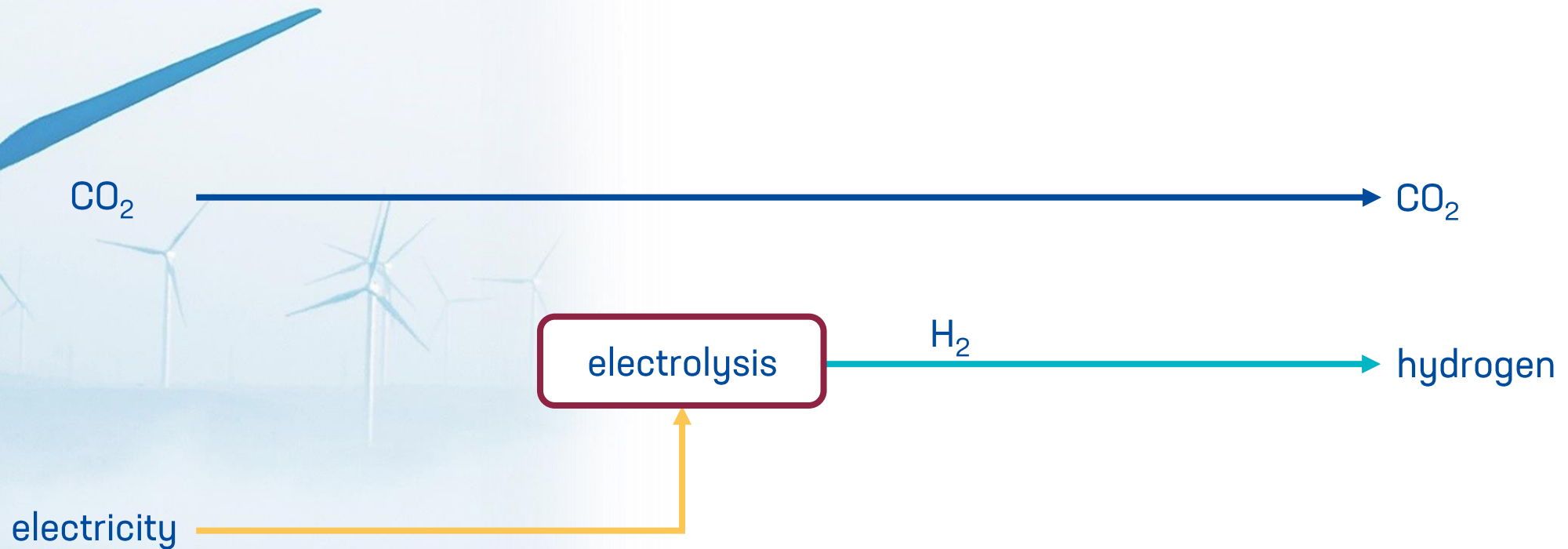
Blade rotation



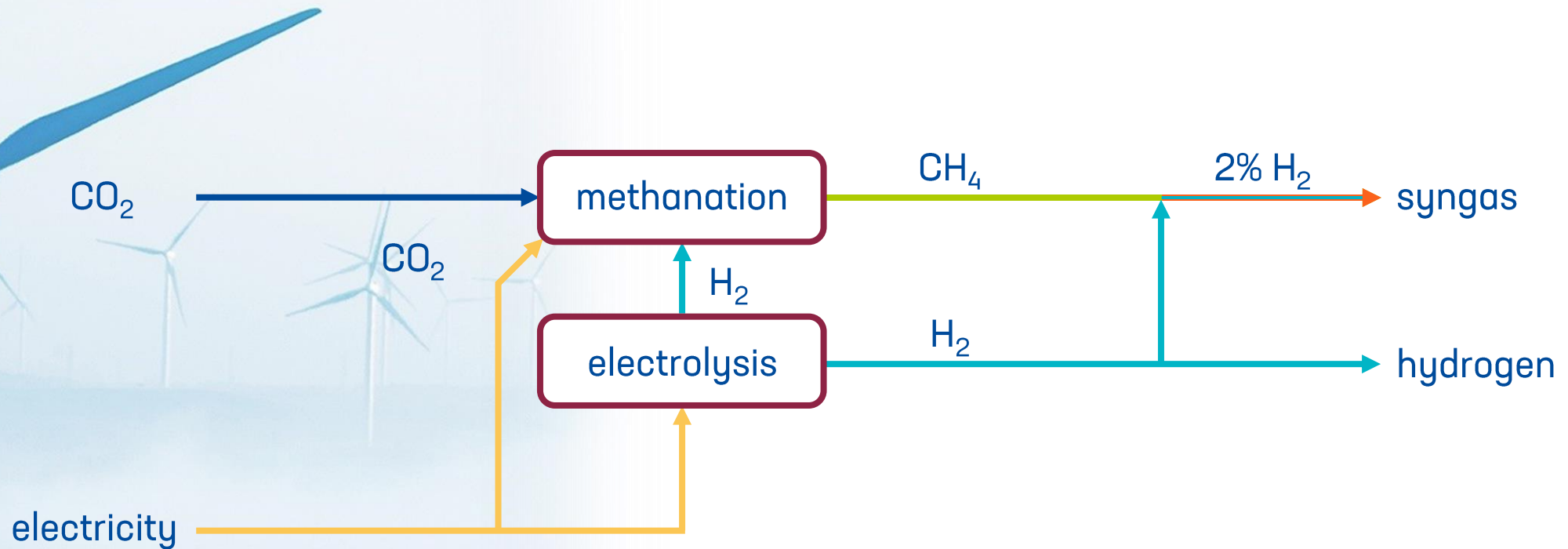
BLANCAIR - APPLICATION PATHS



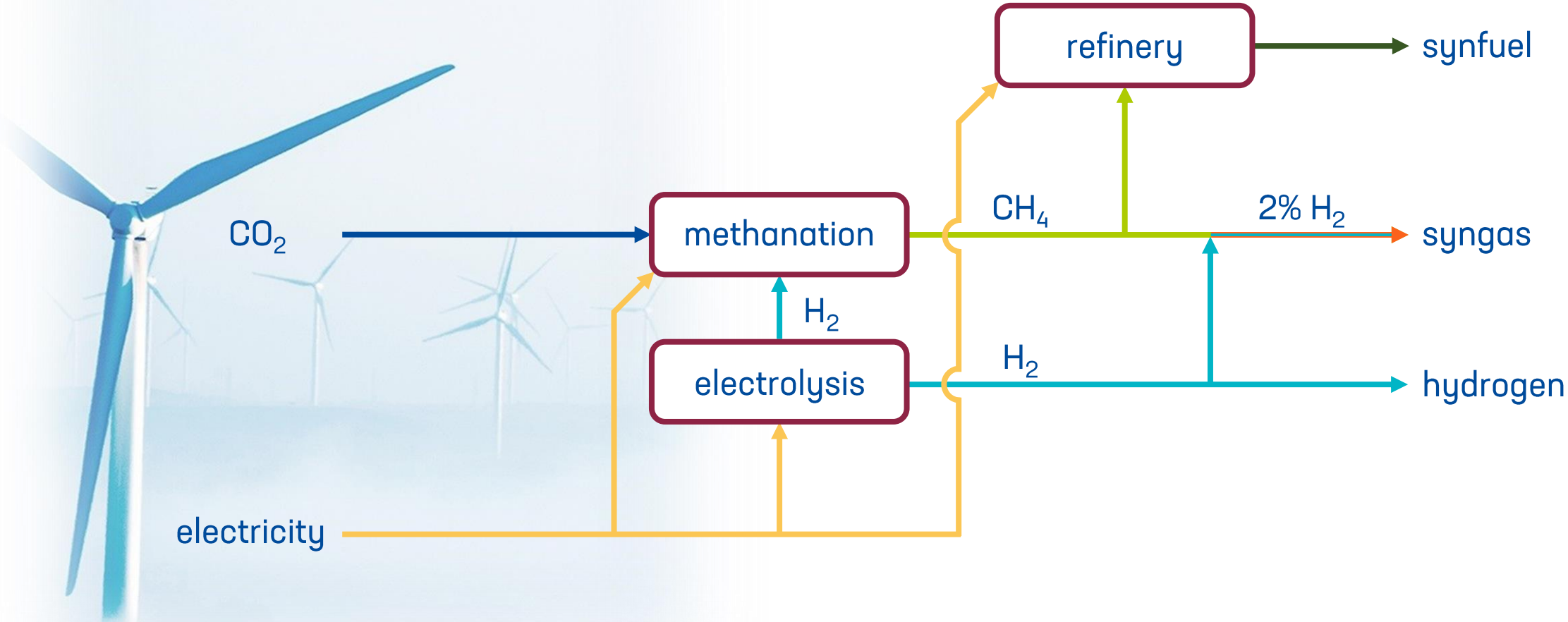
BLANCAIR - APPLICATION PATHS



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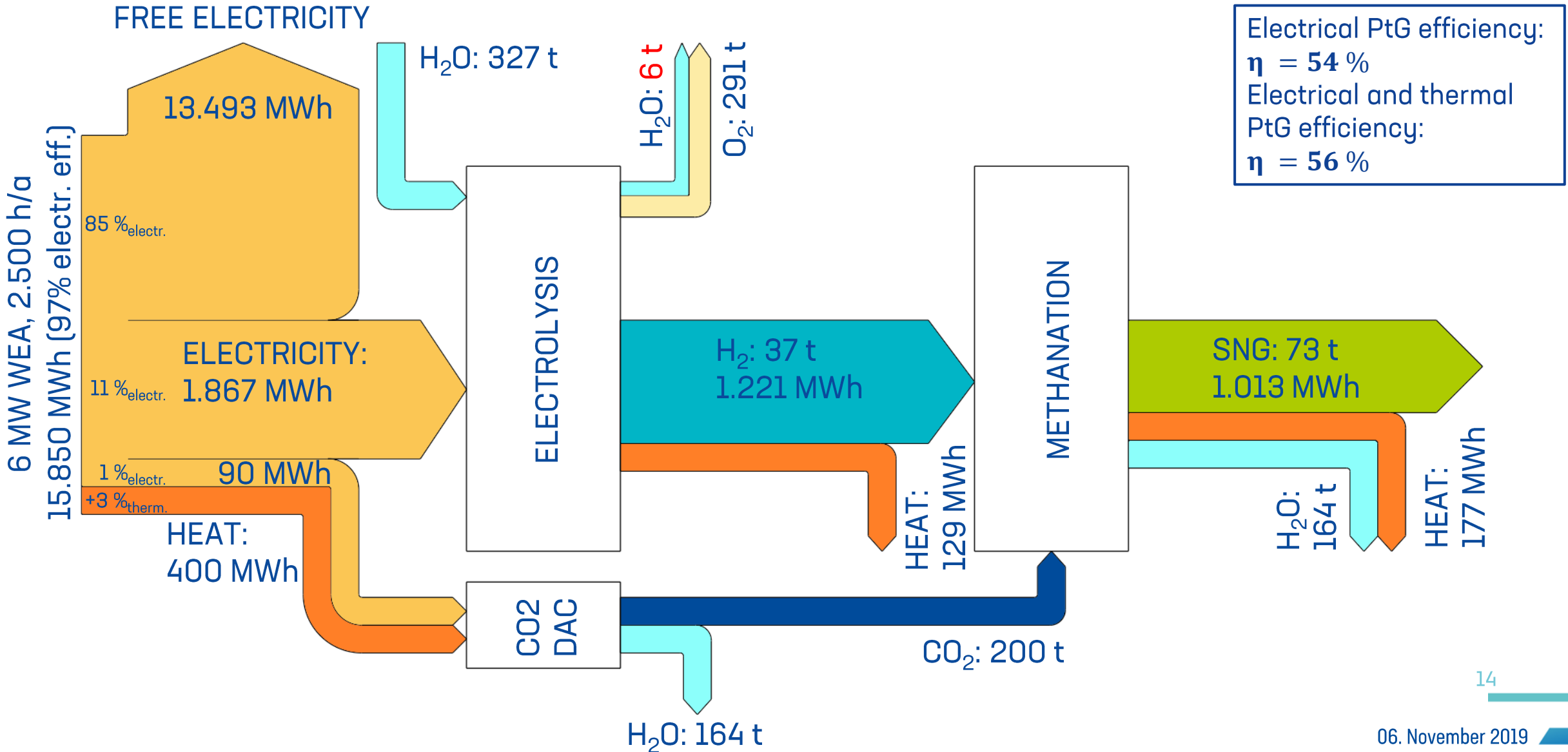


BLANCAIR - APPLICATION PATHS

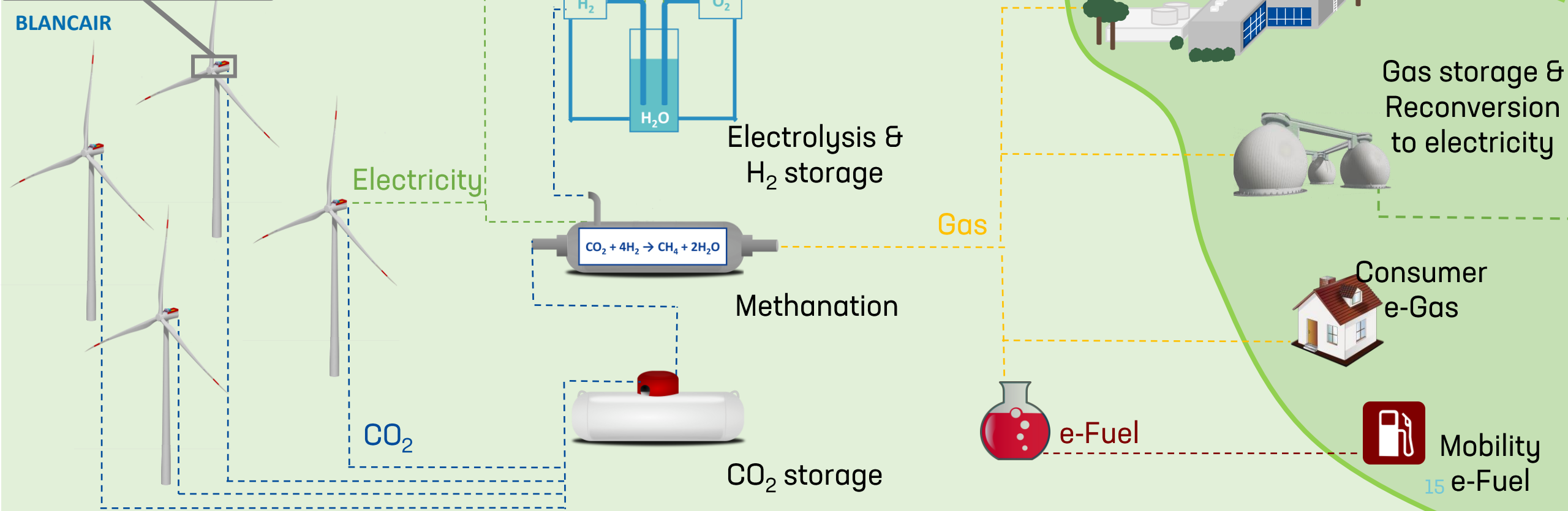
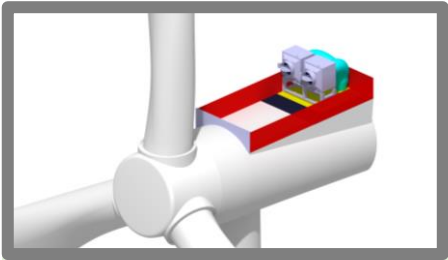




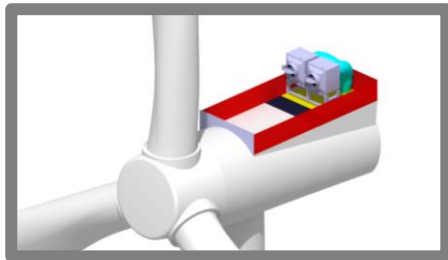
BLANCAIR – SANKEY-DIAGRAM



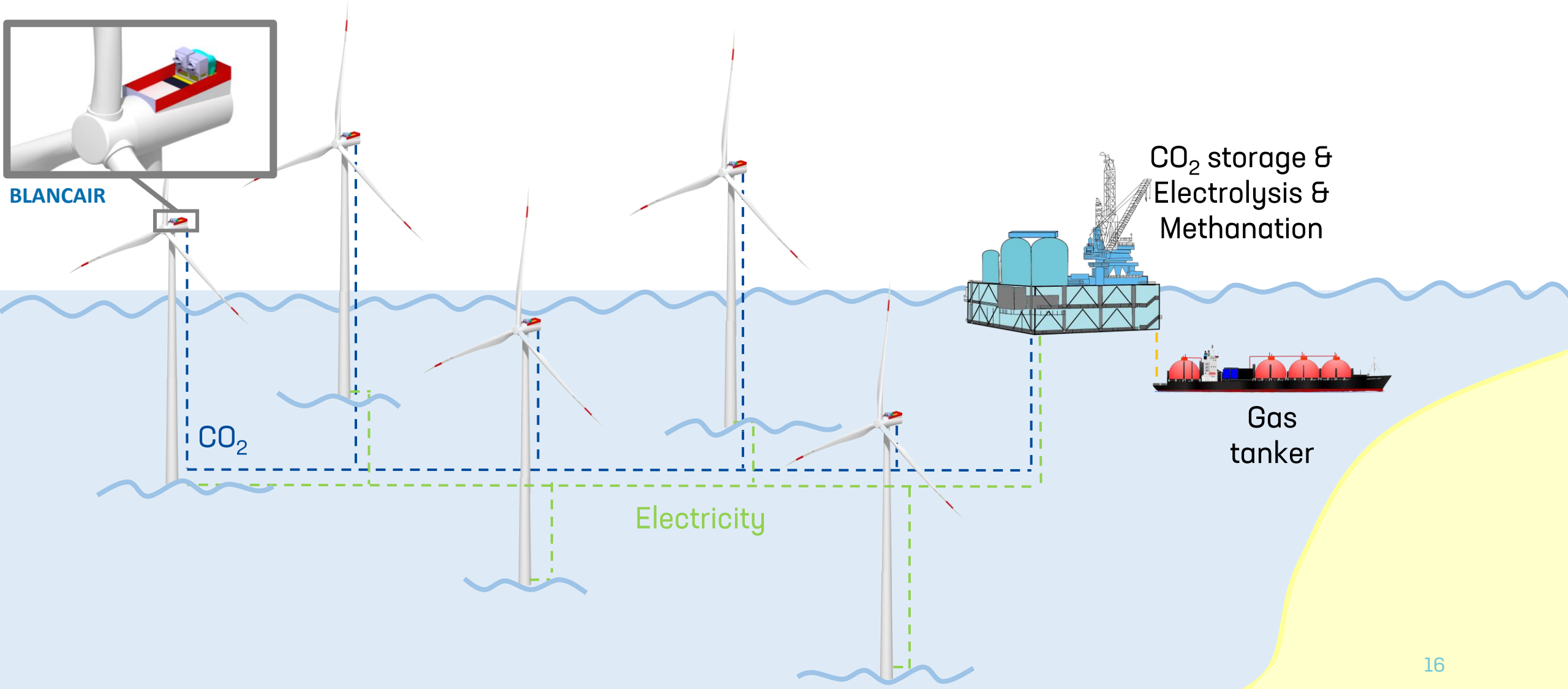
BLANCAIR-TO-X



BLANCAIR-TO-X OFFSHORE



BLANCAIR



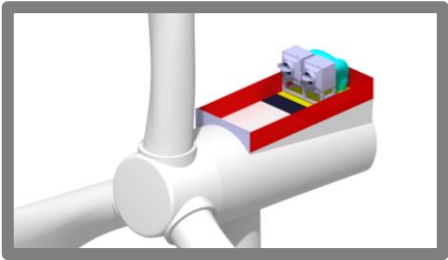
CO₂

Electricity

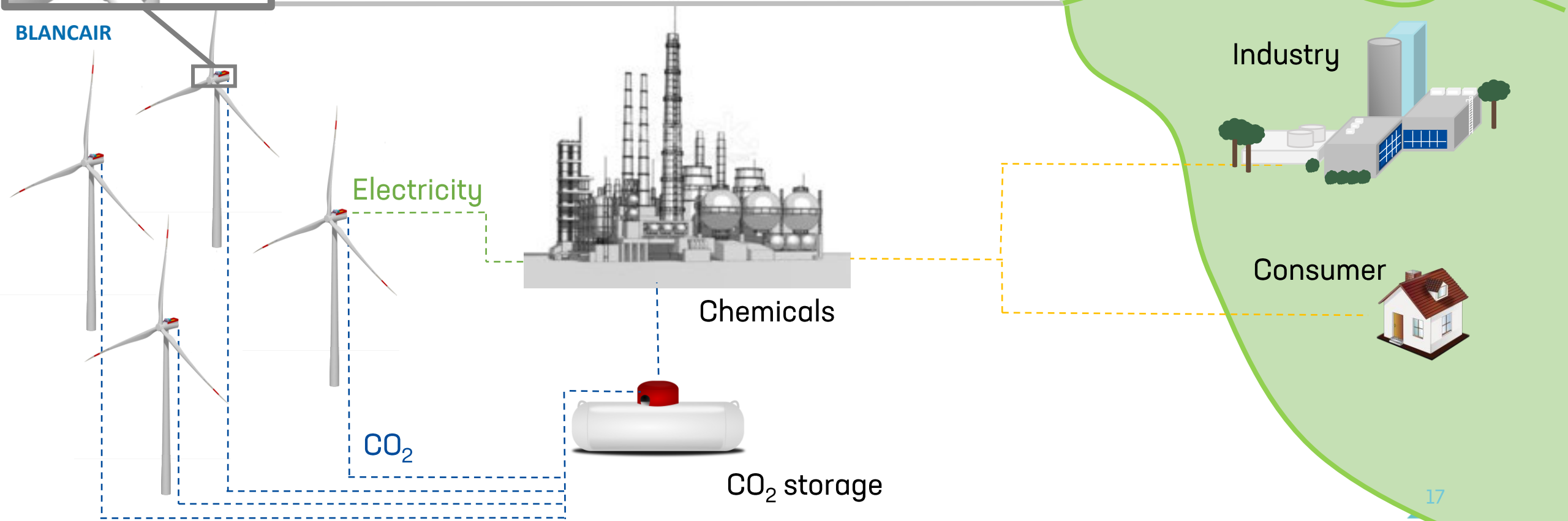
CO₂ storage & Electrolysis & Methanation

Gas tanker

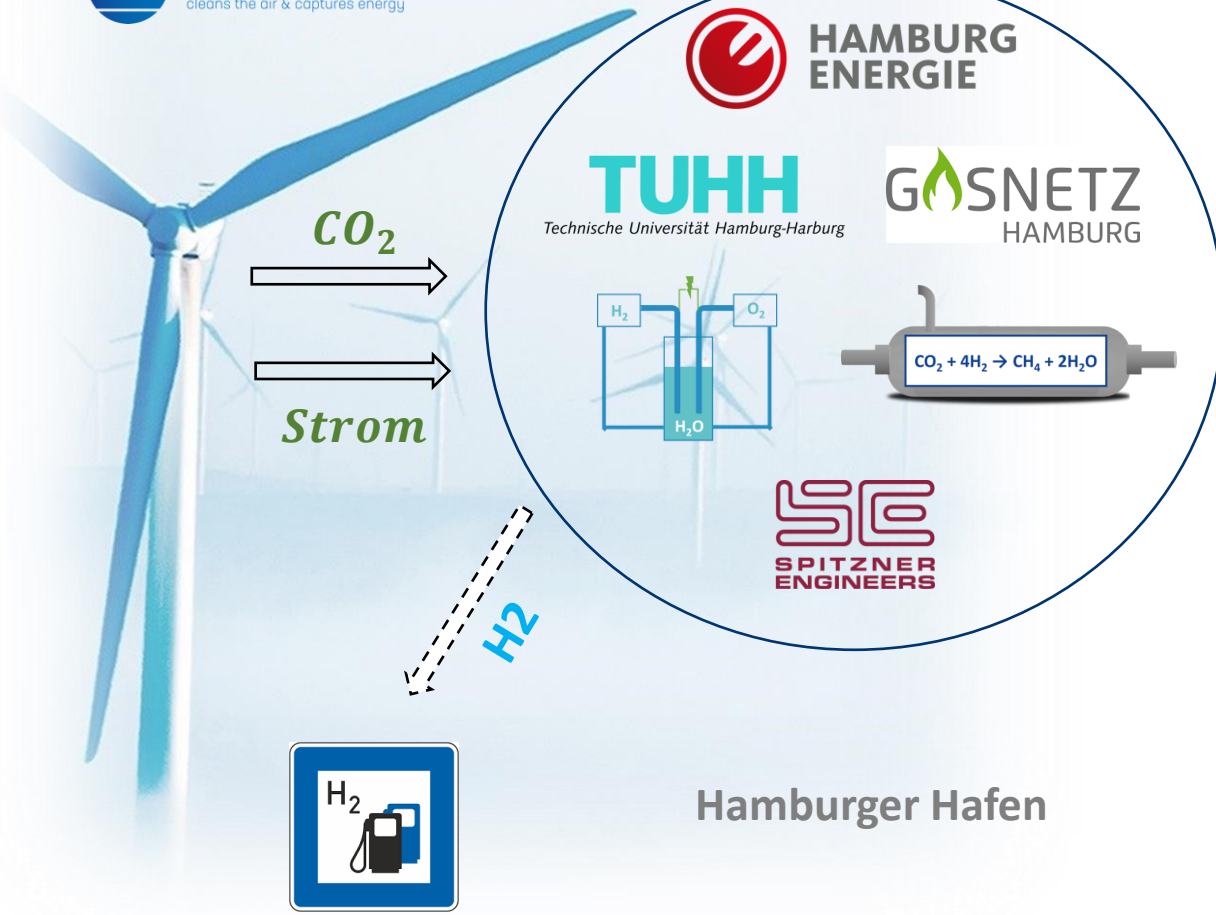
BLANCAIR-TO-CHEMICALS



Replacing fossil based raw materials



HAMBURG'S ENERGIE AUS WASSER & LUFT



Reallabore

IW3
Integrierte Wärmewende
Wilhelmburg

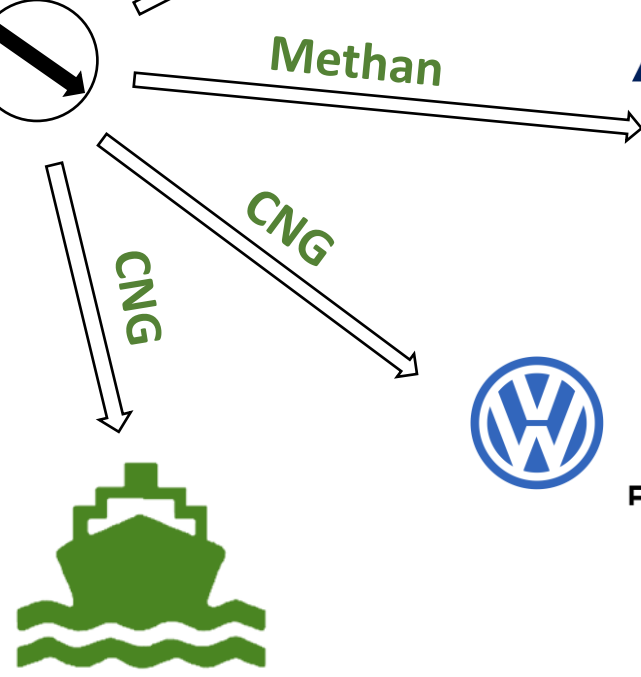
- KEROSyn 100
- Power2Jet

eKerosin

Flugzeuge

AIRBUS

Werk HH





BLANCAIR

captures energy & cleans the air

A large wind turbine is the central focus in the foreground, its three blades extending outwards. In the background, a vast field of smaller wind turbines stretches across a blue sea under a clear sky. The overall color palette is dominated by various shades of blue.

IT'S TIME FOR
THE CLEANEST ENERGY