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Our mission

TURNING SUNLIGHT INTO FUEL

We contribute to a zero-emissions transportation sector by replacing fossil fuels with carbon-neutral solar fuels.



C The challenge



Global CO₂ emissions are rising



Transportation: 3 billion tons of fuel



Liquid fuels are here to stay









SUSTAINABLE

alternative to fossil fuels



SCALABLE to cover global demand

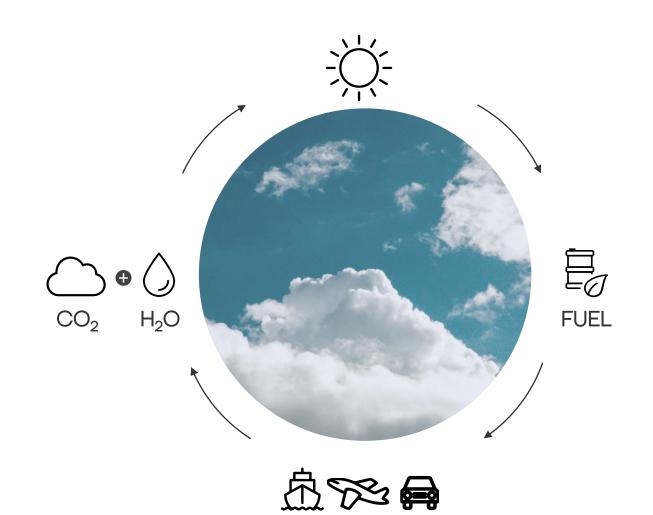


COMPATIBLE

with existing infrastructure



Let's close the carbon cycle. TURNING SUNLIGHT INTO FUEL.





TURNING SUNLIGHT INTO FUEL.

Concentrated solar system delivers hightemperature process heat.





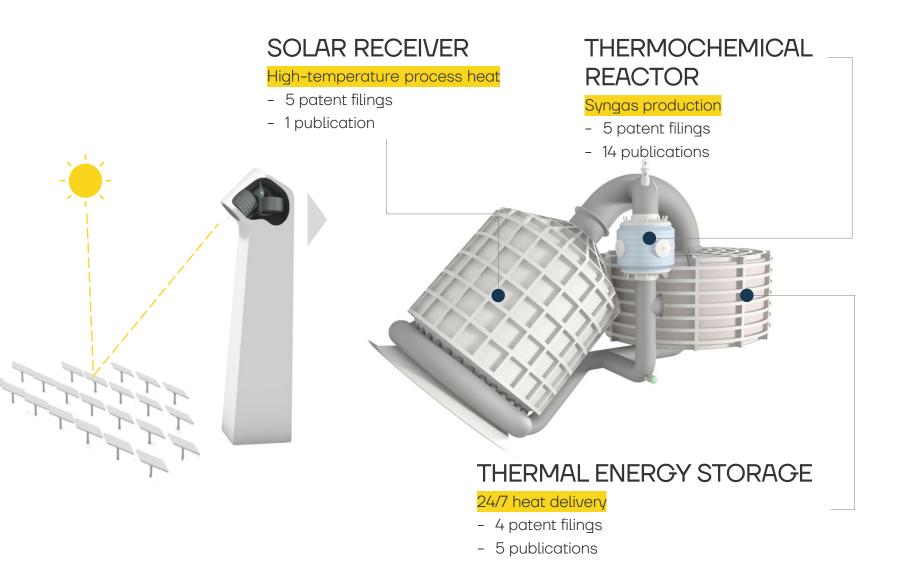
TURNING SUNLIGHT

Synhelion uses solar heat to convert CO_2 and H_2O into synthetic fuels. We call them solar fuels.



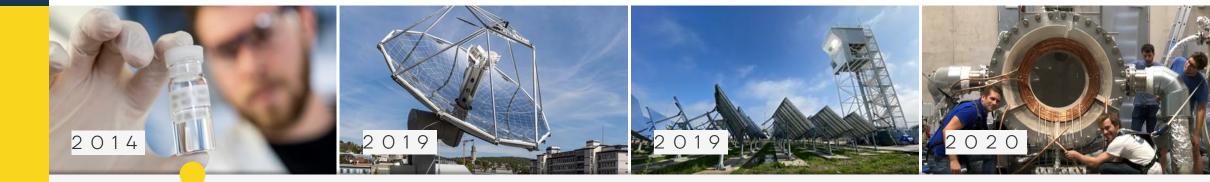
The 3 innovation fronts

C Turning sunlight into fuel.





A record-breaking path to market



World's first solar jet fuel from H_2O and CO_2 in the lab

World's first carbon-neutral fuels from air and sunlight

Medium-scale demonstration under real field conditions

Full-scale demonstration of key components



TURNING SUNLIGHT INTO FUEL.

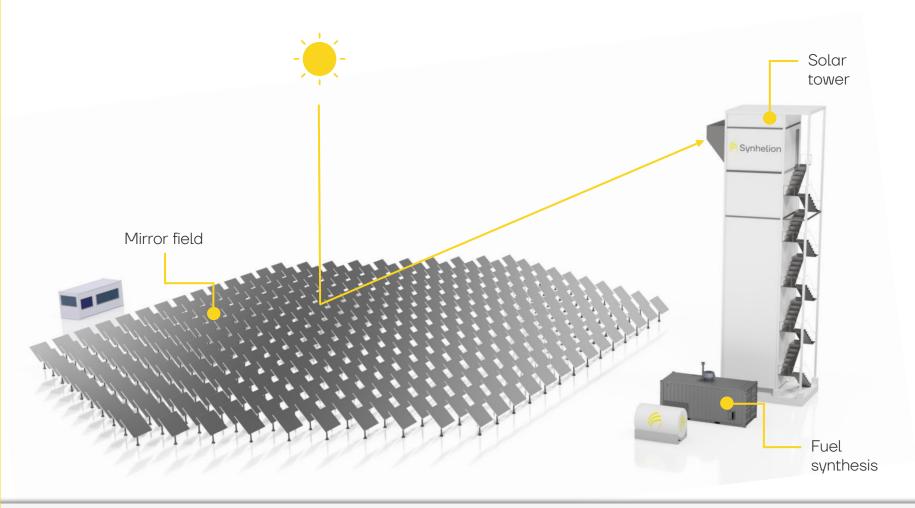
Demonstration of solar syngas production at industrial scale on solar tower of DLR





TURNING SUNLIGHT INTO FUEL.





Main specifications

1'000 m² mirror area

- 250–500 kW solar input power
- 10'000 L/y fuel demo batches



Status: fully financed

Construction / commissioning: 2022 / 2023

Customer: Zurich Airport

Supported by:

Federal Ministry for Economic Affairs and Energy

on the basis of a decision by the German Bundestag



Synhelion roadmap

2023-2025

2021-2023

= 50% of Switzerland's jet fuel consumption

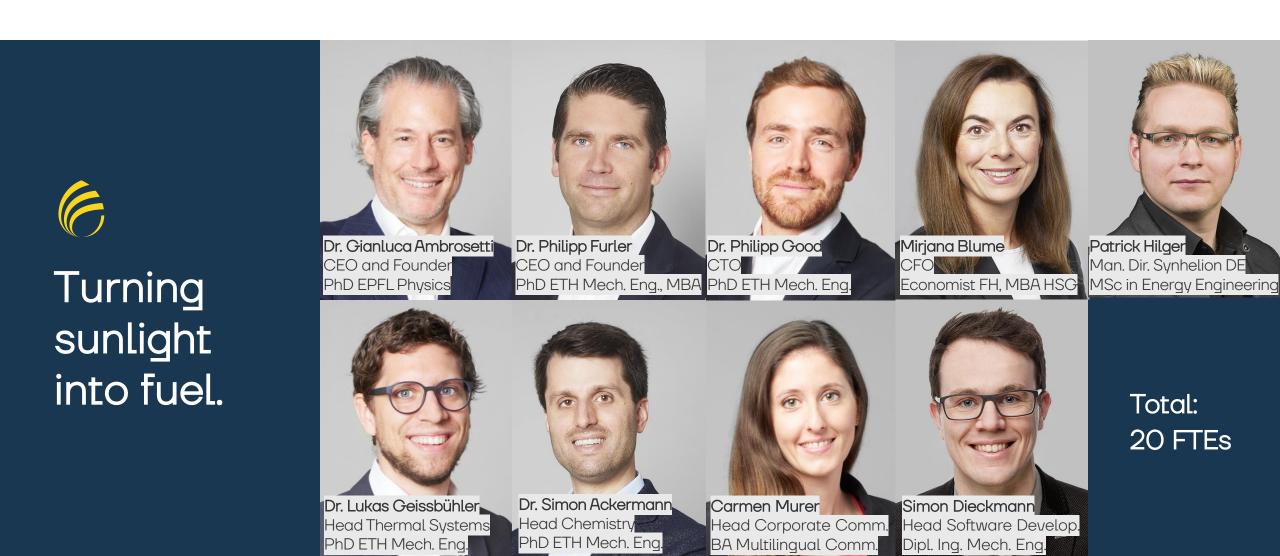
2025-2030

= 50% of European jet fuel consumption

2040



Core team





Partners δ key customers



Lufthansa

SWISS

Zurich Airport

amag







della Svizzera italiana





SUPSI



Schweizerische Eidgenossenschaf Confédération suisse Confederazione Svizzera Confederaziun svizra

Supported by:

Federal Ministry for Economic Affairs and Energy

Office fédéral de l'énergie OFEN

on the basis of a decision by the German Bundestag

Solar fuels are the most



AFFORDABLE

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EFFICIENT

C ECO-FRIENDLY

solution for clean, long-distance transportation.



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