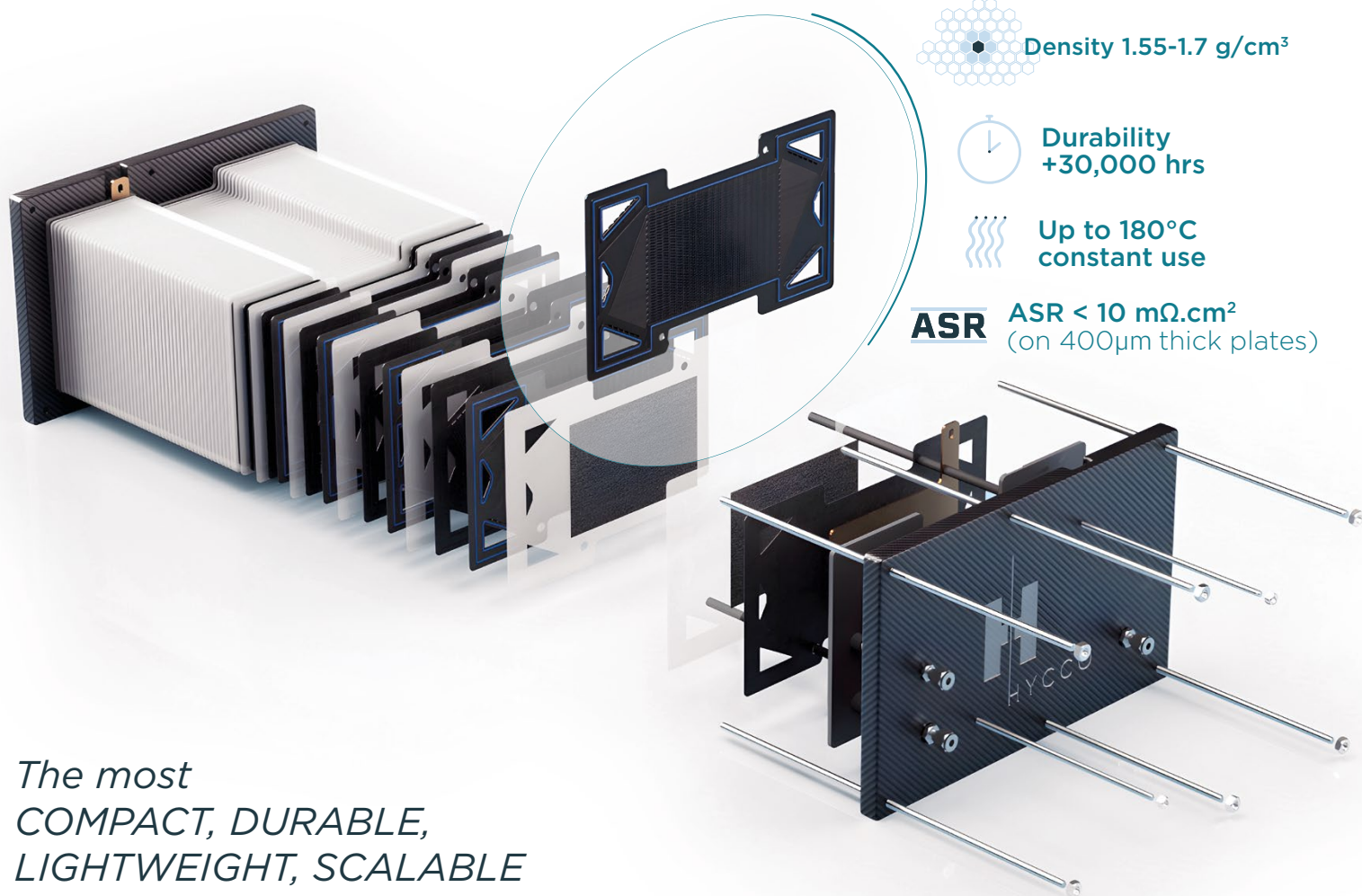


TOGETHER, EMPOWERING THE FUTUR

We produce
the next generation
of carbon fiber
bipolar plates



↓
↑ Assembled bipolar
plate 0.8 mm thick

Density 1.55-1.7 g/cm³

Durability
+30,000 hrs

Up to 180°C
constant use

ASR ASR < 10 mΩ.cm²
(on 400µm thick plates)

*The most
COMPACT, DURABLE,
LIGHTWEIGHT, SCALABLE
bipolar plates available
on the market*

Our expertises

- **An experienced team at your service**

Our 20-strong team is there to assist you, from plate design to the integration of our components into your system.

- **A flexible production line**

From prototyping to industrialization, we have the means to deliver your plates on time.

- **Assembly**

Over the years, we have qualified several adhesives compatible with the LT-PEMFC application. Special qualification of glue can be done internally to match the electro-chemistry of your application.

- **Gaskets**

We can seal your plates for a plug and play experience. We test 100% of your plates so there's no surprise when it comes to stacking your fuel cell.

- **Design**

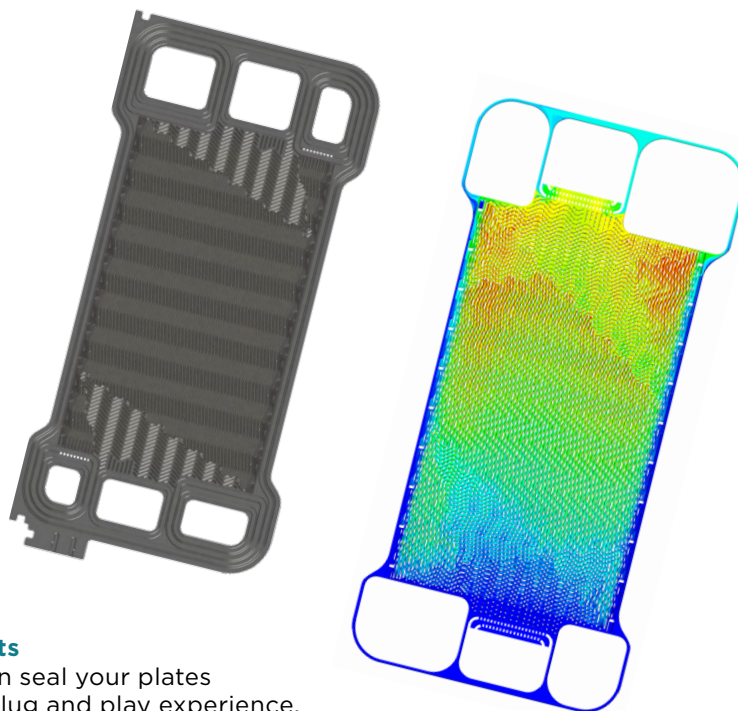
Our team has extensive knowledge of our materials, and how to shape them. We can help you through design guide lines, but we can also offer a complete design of your plate (CAD + CFD) if you prefer to stay focused at integration level.

- **Fuel cell performance testing and ageing test**

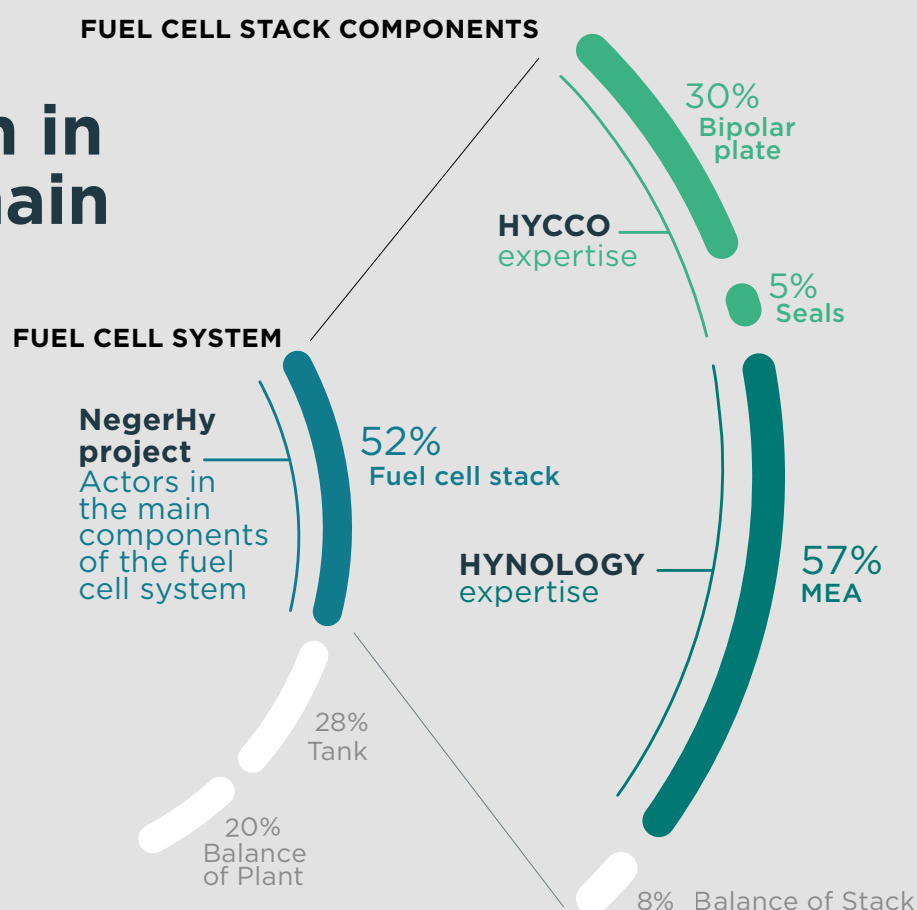
We are fully equipped to realize LT and HT-PEMFC performance test on short stack (<2kW)

- **Rapid prototyping**

Mold and tools can be realised internally to minimize the number of iterations between prototyping, and production.



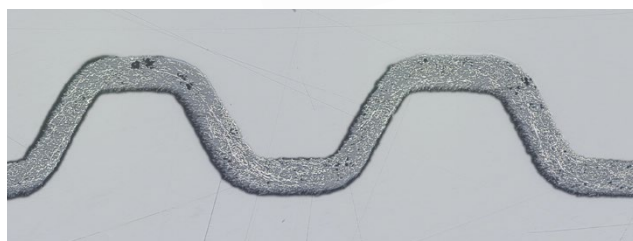
Our position in the value chain



Our material: a unique carbon fiber technology

1. Material formulation

We support you by formulating specific composite materials according to your needs (electrical conductivity, electrochemical compatibility), **down to 100µm thickness.**



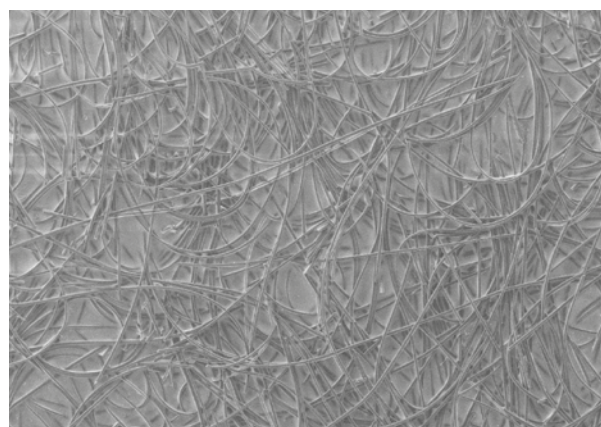
Formability

Our technology is a blend of long carbon fibers and high performance thermoplastics, creating outstanding mechanical properties even for very thin plates, **with metal-like plate design.**

2.

3. Manufacturing process

Plates are manufactured by thermocompression. No skin effect, and **no post-treatment is required.** The carbon fibers are fully exposed at the surface of the plate, enabling direct electrical conductivity path from the top to the bottom of the plate.



Plug & play product for easy integration

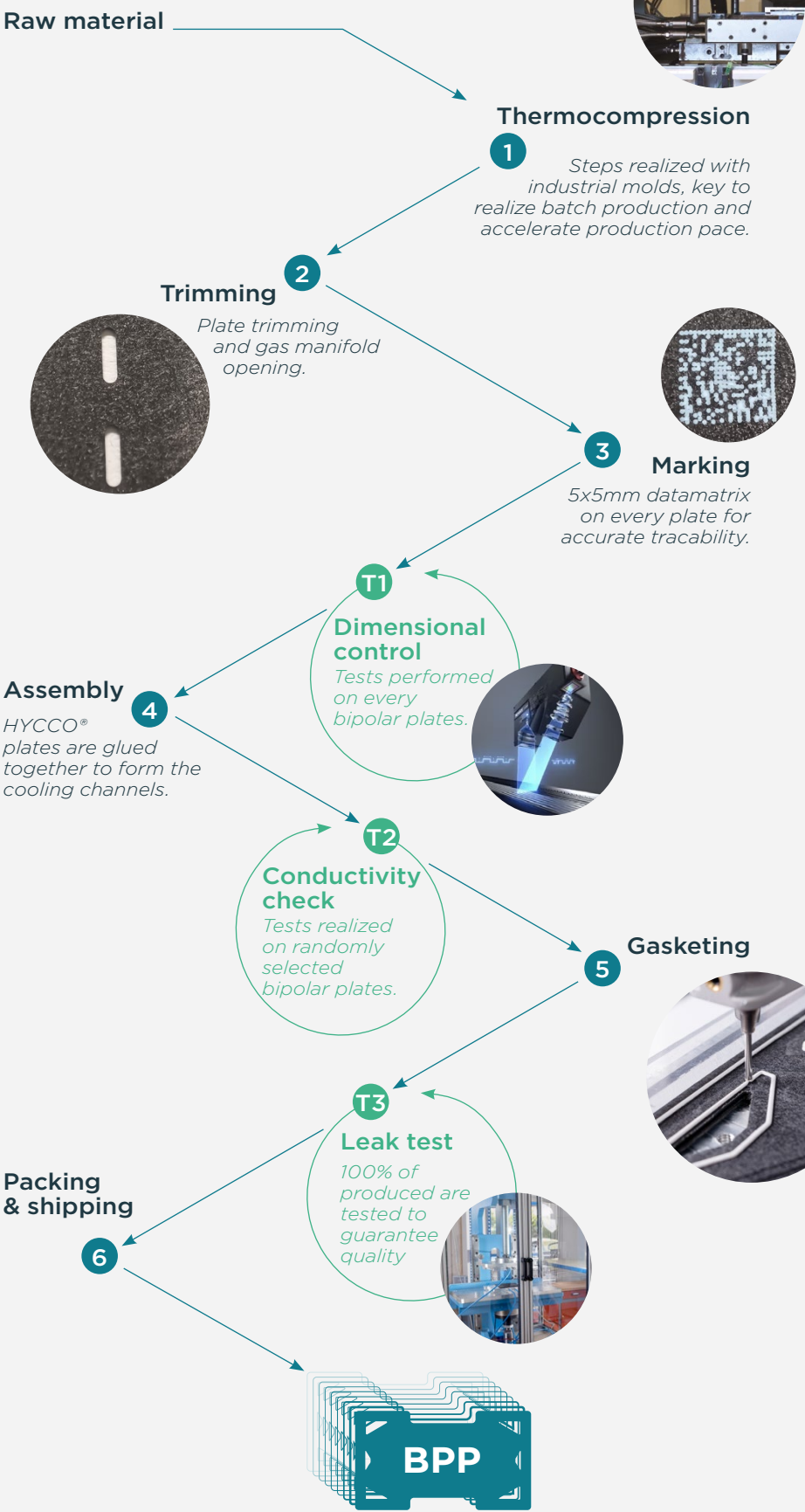
4.

Depending of your requirements, we can supply **half plates, bonded plates, sealed plates**, or any of the above for a direct integration into your fuel cell stack. 100% of our plates are qualified before shipping.

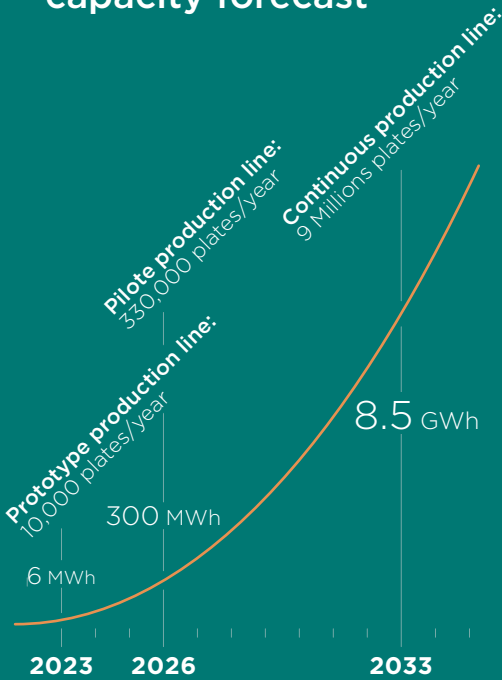


Our production line

We build our production process based on industrial standard



Our production capacity forecast



In the heart of Toulouse
Campus Aerospace



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