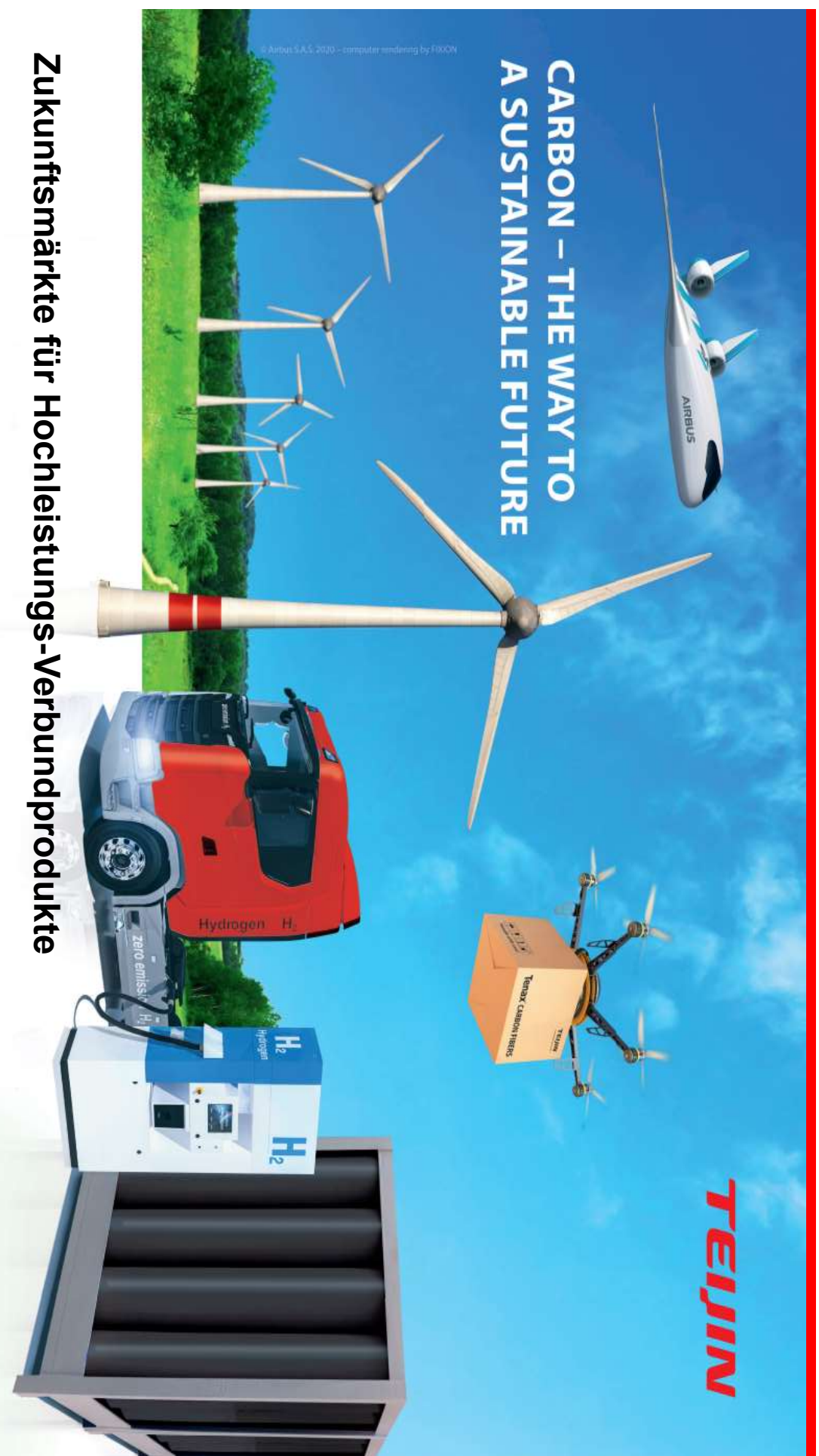


TEIJIN

**CARBON – THE WAY TO
A SUSTAINABLE FUTURE**



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Zukunftsmärkte für Hochleistungs-Verbundprodukte

Teijin Carbon – Global Presence



Teijin Group

Globally active company

Business Fields:

- Material Business
- Healthcare Business
- IT Business
- Fibers and Products Converting Business

Teijin Carbon Europe GmbH

Head-Office:

Wuppertal

Employees:

~ 90

Departments:

Marketing & Sales
Research & Development
Laboratories

Plant:

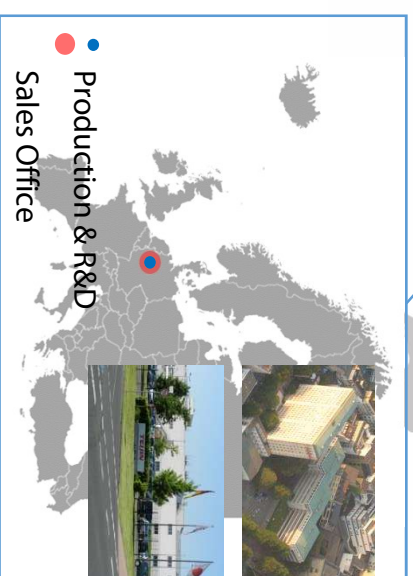
Heinsberg

Employees:

~ 400

Departments:

Production
Research & Development
Laboratories & Warehouse & Administration



TEIJIN CARBON EUROPE GMBH

Product Overview

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Filament Yarns:

- Different types: high strength, high modulus,
- 1 – 48 K with different sizings and coatings

Short Fibers:

- Chopped or milled fibers with different sizings

Dry Reinforcements

- NCF, woven fabric, braids

TPUD:

- Thermoplastic unidirectional tape with different matrix materials
- PEEK, PAEK, PPS, Polycarbonat, Polyamids

TPCL:

- Thermoplastic consolidated laminates (based on woven fabric)

Towpreg:

- Based on IT550 24K fiber and an epoxy (3 components) matrix-system

Thermoset Prepreg:

- Different Matrixsystems. High temp. resistance, high impact resistance
- Rapid cure systems



Filament Yarn



Short Fibers



Dry Reinforcements



TPUD



TPCL



Towpreg*



Thermoset Prepreg

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*Pre-production material

Current Business - Cutout

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Aerospace

Aircrafts & Helicopters

- **primary and secondary structural material**
wings, vertical and horizontal tail plane, belly fairing
interior material
floor panels, beams, lavatory units, seats

Transportation

Automobiles, Trucks and Busses

- Monocoques , pillars & rockers
- Cabins, seats, doors & flaps

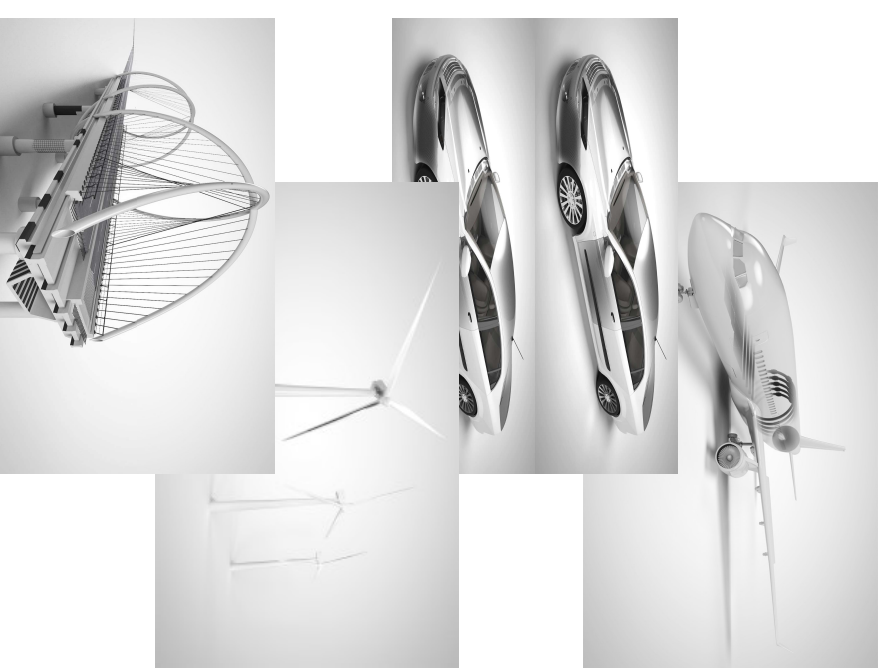
Energy

- Wind turbine blade reinforcement
- CNG & hydrogen pressure vessels

Civil Engineering

Infrastructure & Buildings

- Laminate strips and shear links, cables



TEIJIN CARBON EUROPE GMBH

Future business

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**CARBON – THE WAY TO
A SUSTAINABLE FUTURE**

TEIJIN

- Aerospace
- Urban air mobility
- Energy
- Pressure vessels
- Civil engineering

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