

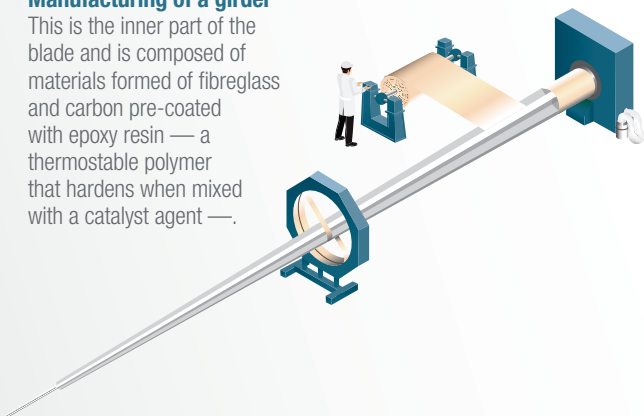
# Do you know how the **BLADES** of a wind turbine are made?

## MANUFACTURING

1

### Manufacturing of a girder

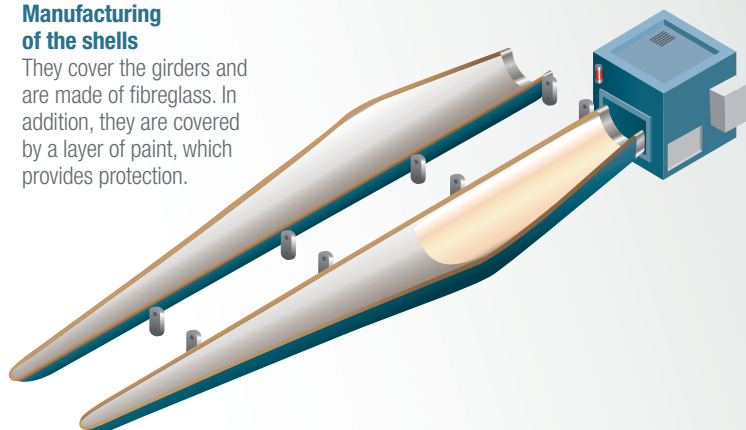
This is the inner part of the blade and is composed of materials formed of fibreglass and carbon pre-coated with epoxy resin — a thermostable polymer that hardens when mixed with a catalyst agent —.



2

### Manufacturing of the shells

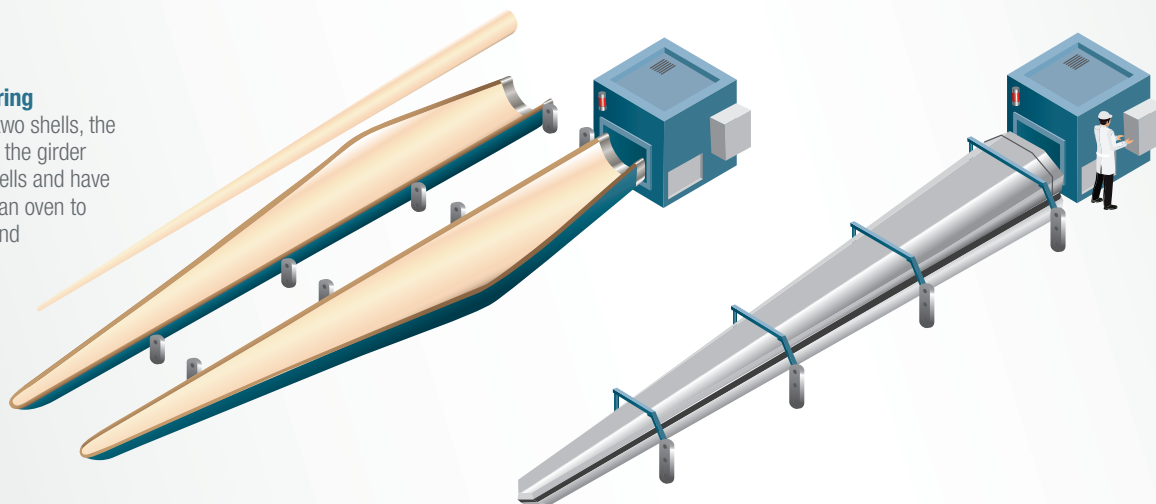
They cover the girders and are made of fibreglass. In addition, they are covered by a layer of paint, which provides protection.



3

### Assembly and curing

After obtaining the two shells, the next step is to bond the girder between the two shells and have them pass through an oven to form a single firm and strong structure.



4

### Finishing

Once the leading and trailing edges of the blade are finished, the structure undergoes a new inspection prior to the blade being moved to its destination wind farm.



## TRANSPORTATION AND INSTALLATION

The blades of a wind turbine are very heavy, massive structures. The blades of the **Wiking** offshore wind farm, for example, have a length of 67.5 m. They require **specialised forms of transport** that are capable of loading these structures and carrying them to their destination. At the destination, **an experienced team of people** assembles the blades and the rotor on the nacelle.

