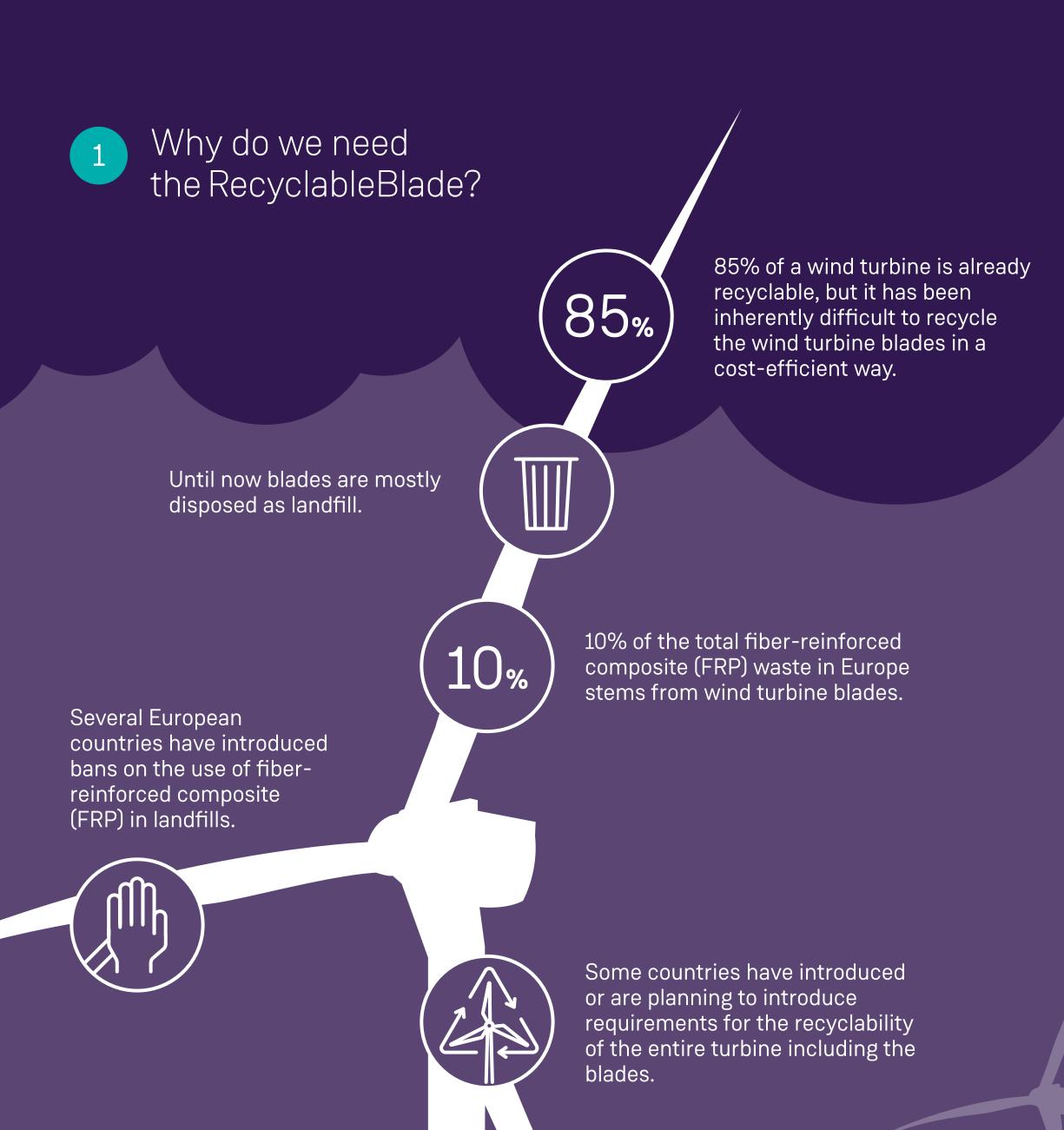
RecyclableBlade

Taking responsibility. Blade by blade.



With the RecyclableBlade, Siemens Gamesa is leading the way to a sustainable future. For the first time in the industry we are able to separate and recycle the blade materials to be used in new applications.

This is a major step towards achieving 100% recyclability of our turbines.



Imagine what would happen if we apply the RecyclableBlade to all new projects globally projected until 2050?

As the number of installations and turbine sizes

important to reduce the amount of waste and to

reuse and recycle all parts to achieve a green future.

continue to increase it becomes even more

life as e.g. landfill.

+2,120,000

blades could be recycled

and avoid ending their



reaching more than 4 1/2 times around the world.

+ 180,000 km

The length of all the blades

in total would be more than

180,000 kilometers long

if stretched out in a line,



+56,400,000t

All blades together

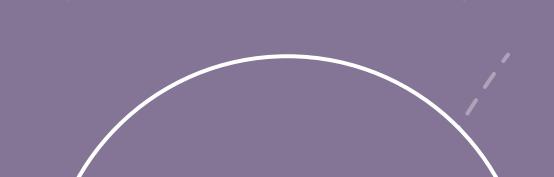
would amount to more

weight similar to more

than 56,400,000 tons of

recyclable material, or the

than 9,400,000 elephants.



fiber, a core material like wood or polyethylene

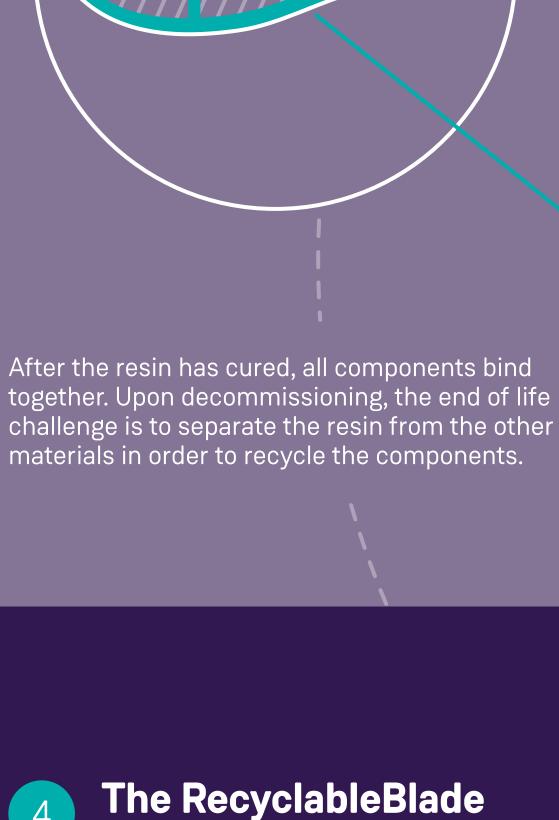
terephthalate foam (PET), and a resin system.

What are the

challenges in producing

Wind turbine blades are cast using glass and carbon

recyclable blades?





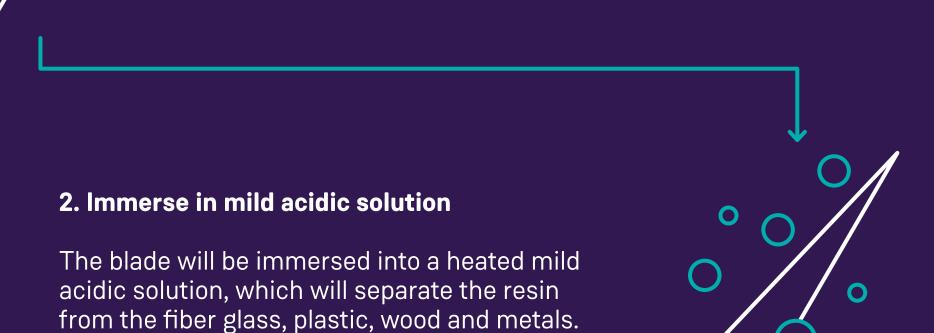
Resin

be recycled for new applications.

1. Decommissioning after end of life

possible to efficiently separate it from the other components at

the end of the blade's working life. This allows the materials to



3. Reclaim separated components

The separated materials can then be

The blades will be dismantled from the turbine

and prepared for the recycling process.

recovered from the solution and prepared for secondary use ie. rinsing, drying.

4. Re-use The materials are now ready to be used in new products matching the technical properties of

the materials, ie. in the automotive industry, or

