

# Siemens Gamesa's low-carbon manufacturing strategy

**Niels Steenberg**

Chairman & Managing Director, Offshore APAC  
Siemens Gamesa Renewable Energy

# Who are we?

**Siemens Gamesa is a leading global provider of wind power products and service solutions.**

#1 in offshore,  
prominent in onshore,  
with service  
integrated for optimal  
performance

Siemens Gamesa  
100% owned by  
Siemens Energy

Founded in April  
2017 as a merger of  
Siemens Wind Power  
and Gamesa

A global company  
based in Zamudio,  
Spain





20 x 6.0-154 / Ørsted, JERA & Seagull/ with  
>30 local suppliers (excl.2 demo 4MW)

47 x 8.0-167 / JERA, Corio & SRE/ 20yr  
service contract

111 x 8.0-167 / Ørsted / Nacelle 1.0, 1<sup>st</sup>  
outside the EU

80 x 8.0-167 / Skyborn/ Tower since '21 by  
CS Wind & Chin-Fong

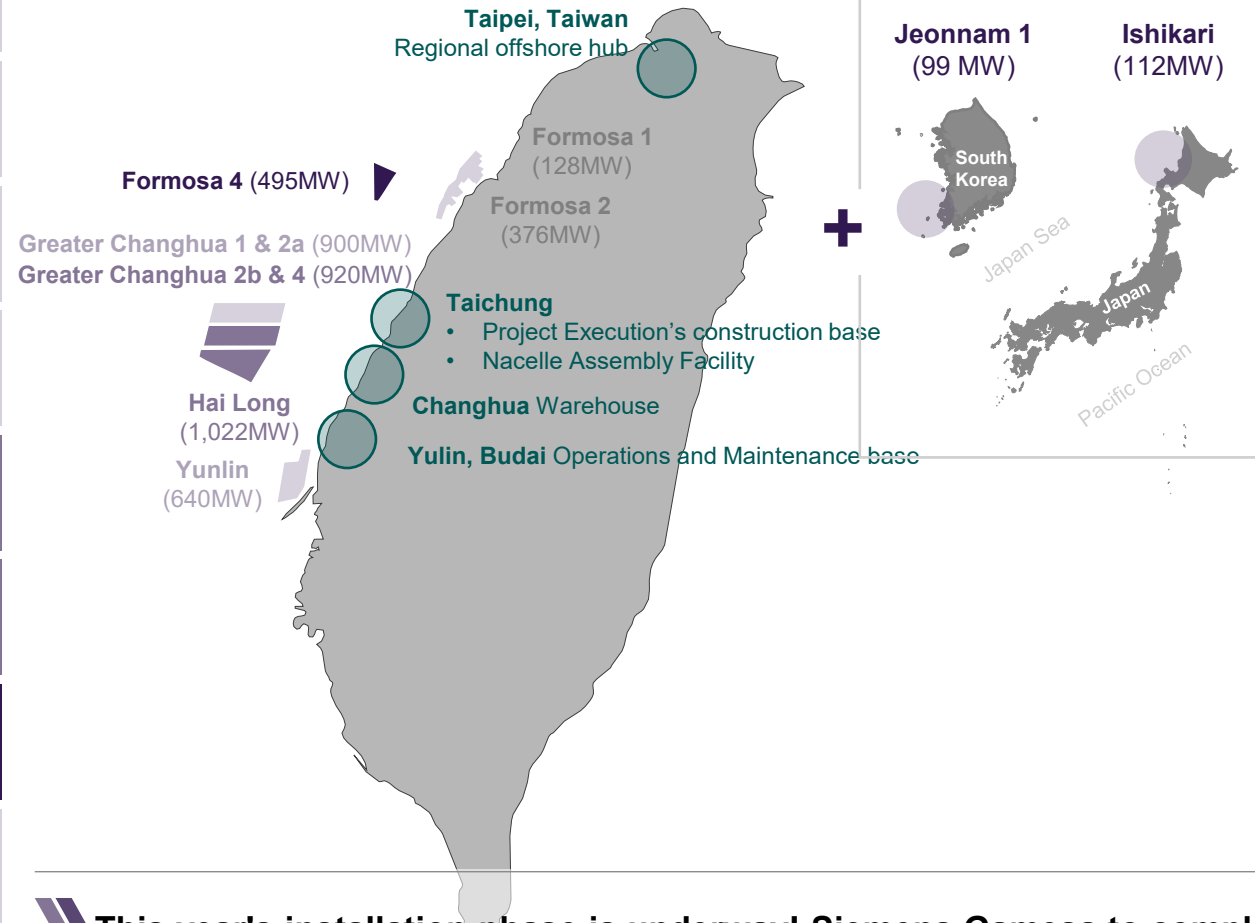
73 x 14-222 / NPI, Mitsui, Gentari/ Nacelle  
2.0 to deliver latest 14MW

66 x 14-236 / Ørsted/ continuously support  
Taiwan's energy transition

35 x 14-236 / SRE / local suppliers: casting, composites resin etc.

14 x 8.0-167 / GPI / Siemens Gamesa's pilot project in Japan

10 x 10-200 / CIP, SK E&S / TSA incl.  
preassembly & 15yr service agreement



**~3.7 GW  
installed**



**600**  
**Employees**

(excl. 40 in Seoul & 100 in Tokyo offices)



**1 + 4**  
**Plant + Offices**

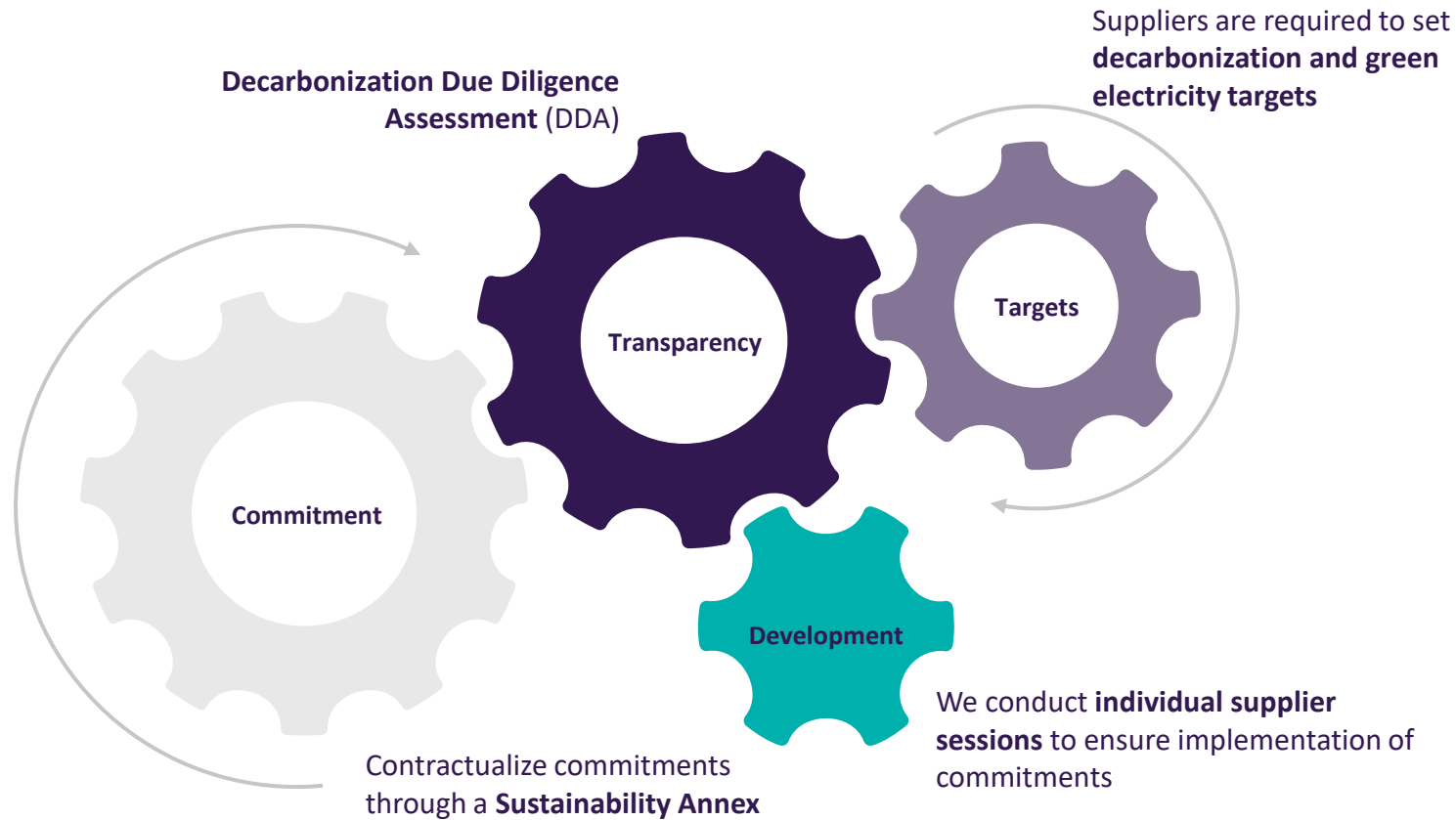
➤ **This year's installation phase is underway! Siemens Gamesa to complete 36 turbines at HaiLong 3.**

Please note the above info was as of May, 2026

Legend:  To be constructed > In construction- partially hand over to Service > COD achieved



# Supply Chain Decarbonization: Supporting our suppliers in the energy transition



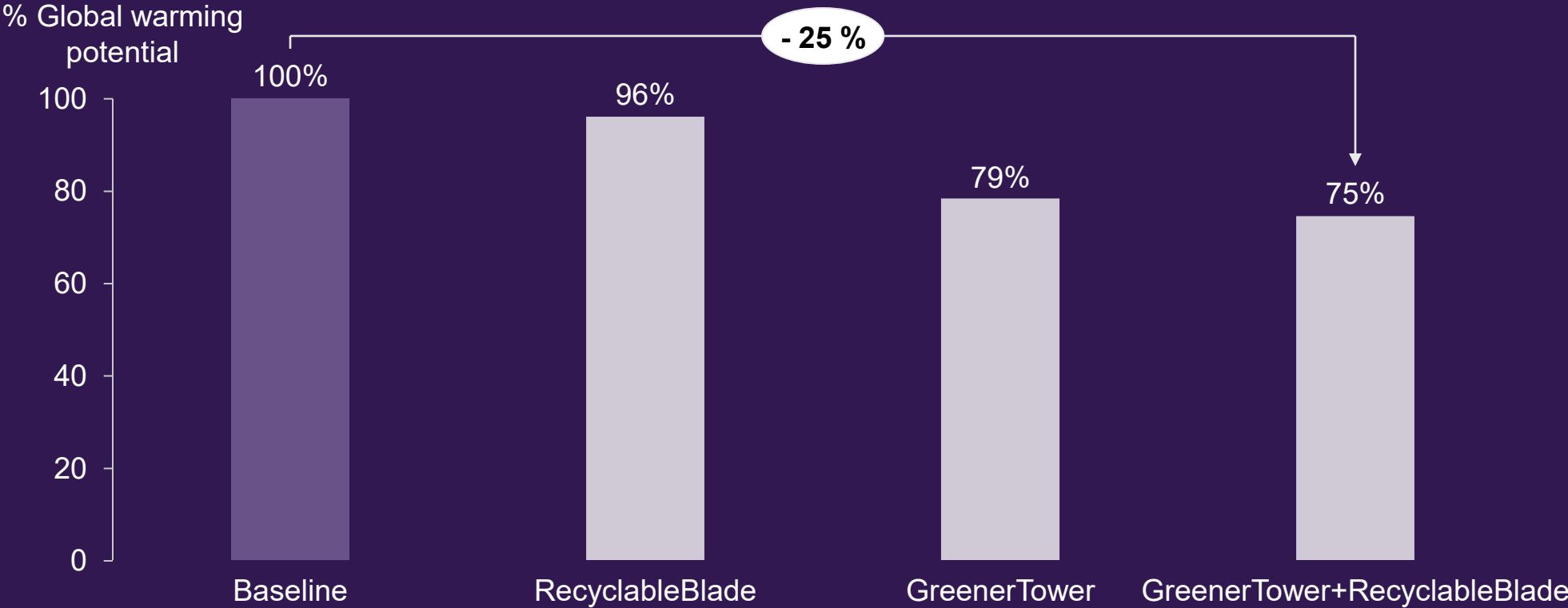
# 30%

reduction of kg CO<sub>2</sub>eq/€  
by 2030

We are aiming to reduce our supply chain carbon intensity from purchased goods and services, as well as transportation and distribution by 30% per kg CO<sub>2</sub>eq/€ until 2030 compared to FY18.

# Analysis of the climate benefits of alternative greener technologies: example of SG 15-236 on WTG level

The Siemens Gamesa **GreenerTower** and **RecyclableBlade** offer a reduced **climate** impact compared to conventional towers and blades.



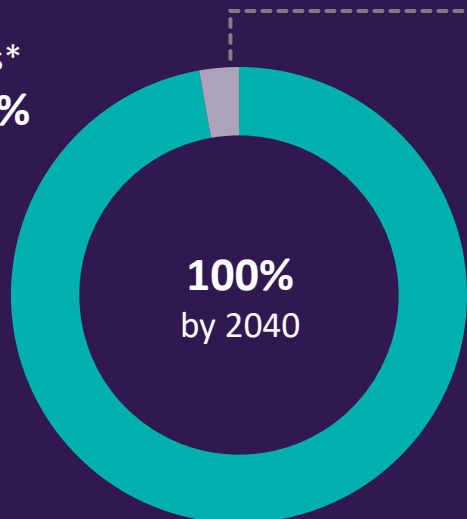
Note: The potential benefits associated with “avoided burdens” from recycling are not included in this analysis. Inclusion of these effects would likely increase the estimated climate benefits.



# Circularity

Our goal is to provide customers with 100% recyclable WTG and a 360° coverage for past, present, and future end-of-life turbines.

Status\*  
**97,3%**



## Product recyclability

Redesign our turbines to ensure a 100% recyclable turbine marketed by 2040.

\* measured in offshore turbines with RecyclableBlade



### Recycling legacy blades

Fostering projects and establishing a global recycling supply chain for recycling old blades.



### Current solution to ease future recycling

RecyclableBlade is now available for commercial use onshore and offshore. Projects already installed and operating.



### A look to the future

Improving the sustainability of our portfolio through Eco-Design and Circular Economy to increase the recyclability ratio and the use of recycled materials.

The Greater Changhua 2b and 4 project is the first in the world with 115-meter-long turbine blades made with recycled glass fiber.

# RecyclableBlade is one step towards full recyclability

85+%

of a wind turbine is recyclable, but it has been difficult to recycle the blades in a cost-efficient way.



Until now, blade recycling has not been done cost-efficiently.



By changing the resin formulation, Siemens Gamesa can recover all materials. This solution is already in operation for ON and OF.



Countries are introducing requirements on turbine recycling, including the blades, and will be part of NZIA requirements.



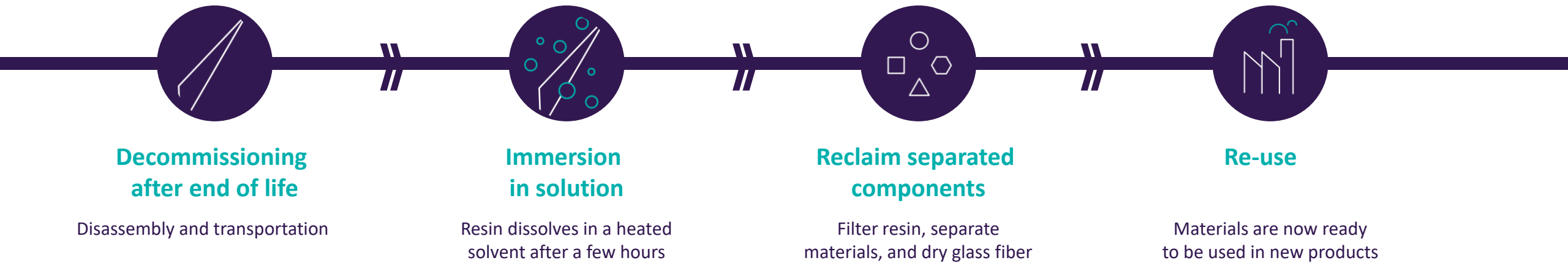
Wind energy sector committed to avoiding landfill of fiber-reinforced composites.





# RecyclableBlade

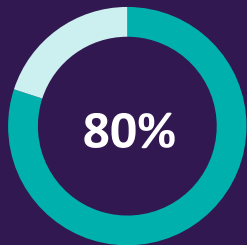
## The Process





# GreenerTower is one step towards net-zero

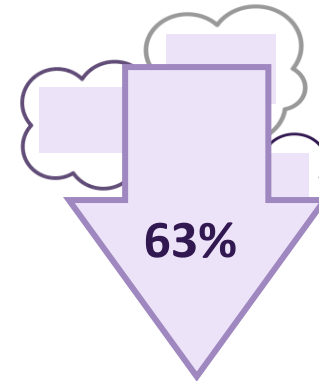
Steel is essential for the wind industry, but at the same time it is the largest single source of CO<sub>2</sub>eq emissions.



## Steel Plates

Towers consist of ~80% steel plates, the component with the single largest CO<sub>2</sub>eq impact.

Our **GreenerTower** solution allows wind farm operators to improve the environmental footprint for their wind farm assets. This choice creates a **competitive advantage in tenders and auctions with CO<sub>2</sub>eq requirements**.



- A CO<sub>2</sub> reduction of at least 63% compared to conventional steel.
- Same warranties
- Same strength and quality
- ~20% GHG (CO<sub>2</sub>eq) reduction on WTG level



**Thank you**

