

N117/3600

3.6 MW
Nominal Power

20 Years (Baseline Scenario)
Service Life

IEC II-B
Wind Class

7,834 MWh/year per turbine
Annual Energy Production

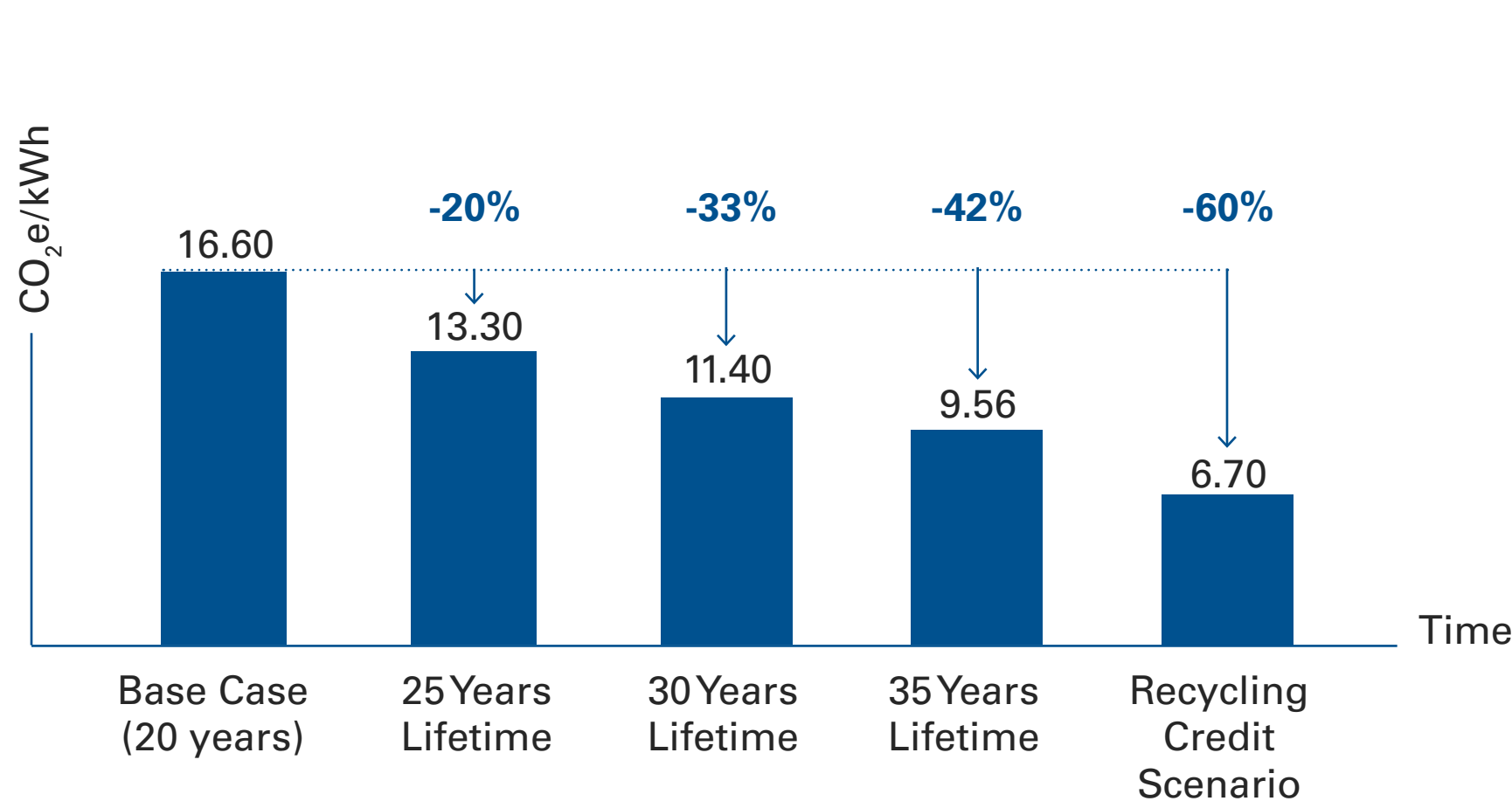
KEY SUSTAINABILITY INDICATORS*

Energy Payback Time ~5,3 months	Return on Energy ~45.4 times	Land use ~1.5ha/turbine	Recyclability ~92%
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*Based on internal LCA study, baseline scenario.

LIFETIME AS A KEY SUSTAINABILITY DRIVER

Carbon Footprint by Lifetime Scenario

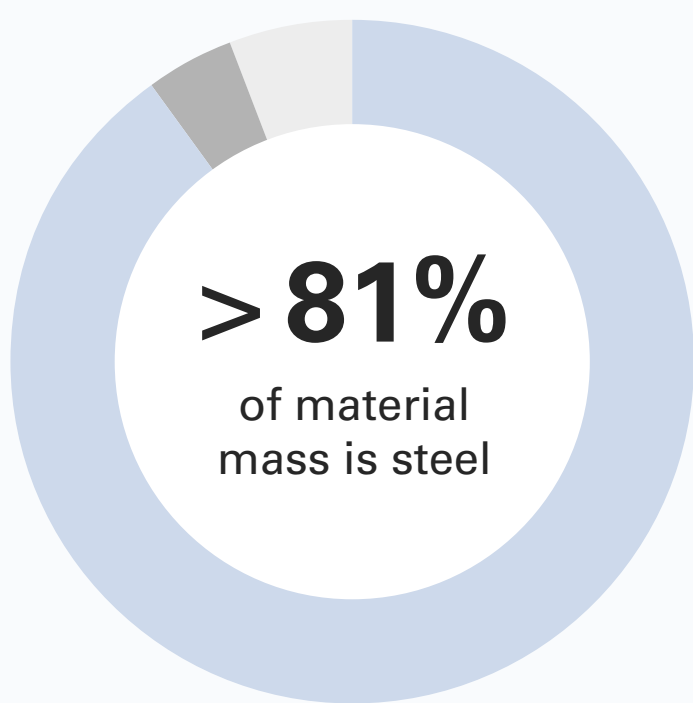


A longer operational lifetime enables more renewable electricity to be generated from the same assets and materials, enhancing overall environmental performance.

-60% Carbon footprint reduction per kWh across the turbine's extending operational lifetime from 20 to 35 years.

MATERIAL CHOICES SHAPE CARBON FOOTPRINT

Material production accounts for around 86% of the total global warming potential. **By offering low-emission steel and low-carbon concrete solutions**, Nordex directly addresses the largest material-related carbon hotspots.



- 81.3%

Steel
- 8.4%

Glass and carbon fibre reinforced plastic
- 10.3%

Other Material

7.2% Polymers

0.7% Operating fluids

0.1% Electrics/Electronics

1.3% Aluminium

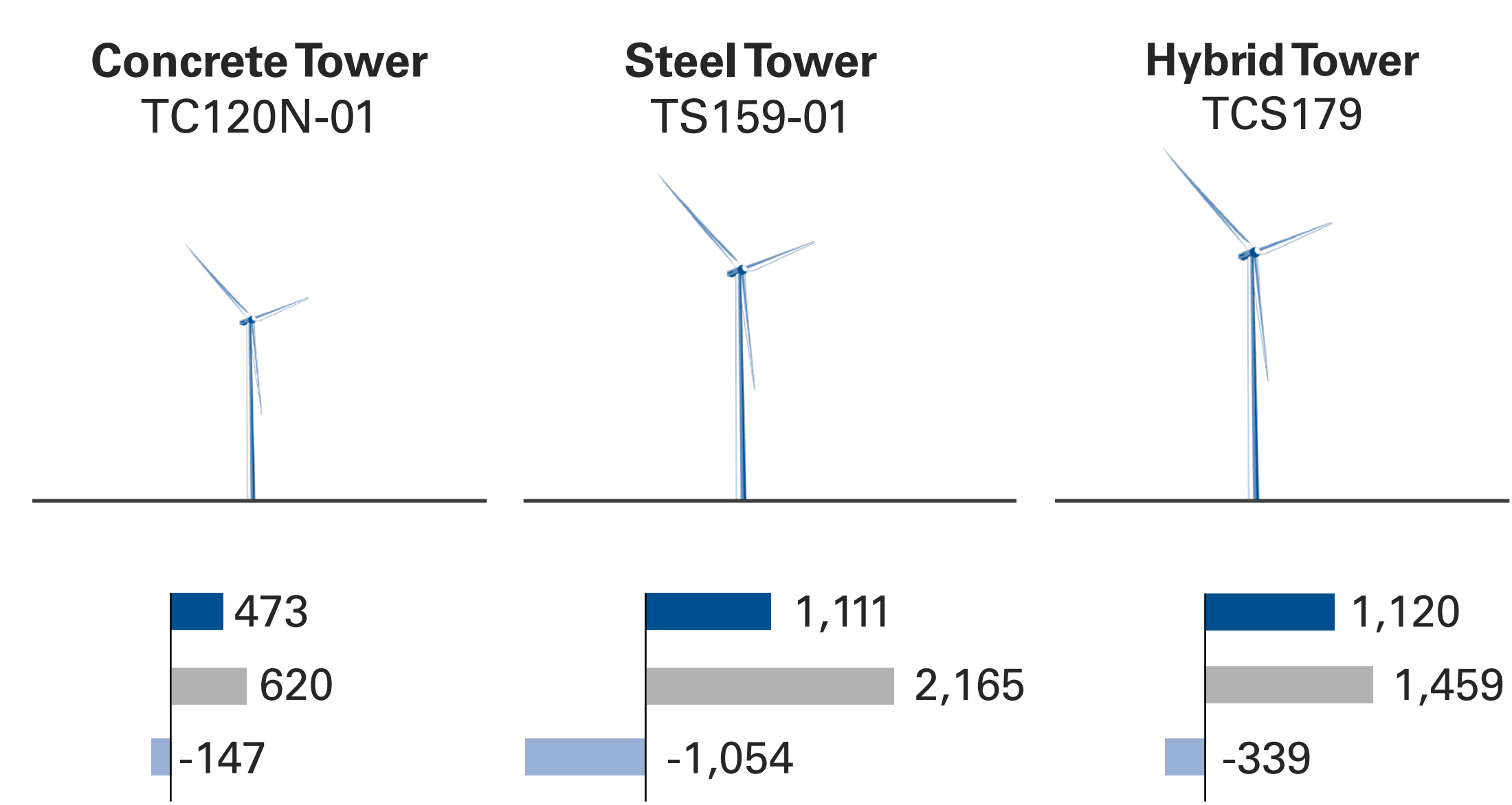
0.7% Copper

1.3% Others

Tower type: steel

IMPACT OF TOWER CONFIGURATIONS

Life Cycle Results with End-of-Life Credits



The choice of tower material influences the overall carbon footprint. Concrete towers deliver the lowest life-cycle emissions, while steel towers maximize recycling benefits.

- Total life cycle (t CO₂e):

Life cycle emissions, including end-of-life credits
- Life cycle emissions before end-of-life (t CO₂e):

Material production, transport, construction and operation
- End-of-life credits (t CO₂e):

Benefits from material recovery and recycling

