


GERMANY

Glazing potential

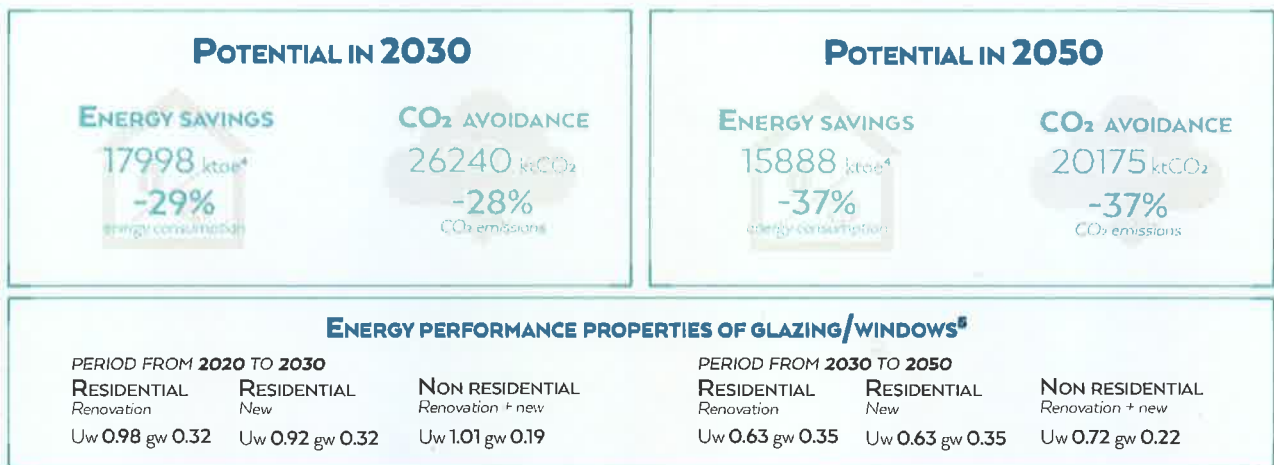
Energy savings and CO₂ emissions avoidance potential from glazing products.



Full name
FEDERAL REPUBLIC OF GERMANY
Average building stock¹
Uw value: 2.70
Minimum performance requirements²
Uw value: 1.3 gw value: N/A Last update: 2014

ANNUAL SAVINGS POTENTIAL IN 2030 AND 2050 IN GERMANY

The below data³ show the amount of energy savings and related CO₂ emissions avoidance that could be achieved annually in 2030 and 2050 if high-performance glazing were to be installed in all German buildings. This data offers a reference point to quantify what can be achieved in the medium term, if the right measures were to be put in place.



DOUBLING OF WINDOW RENOVATION: A HIGH POTENTIAL AT HAND

Nearly half of the maximum savings potential identified for 2030 could be realised in 10 years by doubling the window renovation rate with high-performance glazing.

-49%
energy consumption
8788 ktOE⁴
OF ENERGY SAVINGS CAN BE ACHIEVED BY 2030 IN GERMANY

BY INSTALLING HIGH ENERGY PERFORMANCE GLAZING

BY DOUBLING THE WINDOW REPLACEMENT RATE

1 European Commission, EU Building Stock Observatory, viewed 17 December 2018, <http://ec.europa.eu/energy/en/eubuildings/>
2 Sources: Ecifys, 2007, Glass for Europe <https://glassforeurope.com/minimum-performance-requirements-for-windows/>
3 Results from INO Built Environment and Geosciences, Potential impact of high performance glazing on energy and CO₂ savings in Europe, 2019
4 One kilo tonne of oil equivalent is equal to 116 kWh
5 Window values used in the calculation. For residential, average value for all orientations: Solar Central South; LowE; other.
6 Today's average annual window renovation rate in Germany is estimated to be 2%. Doubling means 4% annual window renovation rate.