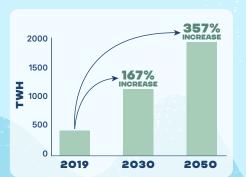
HOW MUCH WILL IT TAKE?

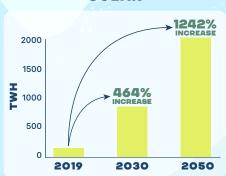
EXPLORING THE SCALE OF WIND & SOLAR REQUIRED FOR THE EU AND UK TO REACH NET-ZERO EMISSIONS

GROWTH OF WIND & SOLAR FOR ELECTRICITY GENERATION

ONSHORE WIND



SOLAR



OFFSHORE WIND



SCALE COMPARISON



Net-zero by 2050 requires 1,189 GW of solar capacity That would necessitate approximately 3.7 BILLION SOLAR PANELS Meaning the EU and UK would have to deploy an additional 118 MILLION SOLAR PANELS every year from now until 2050!



Net-zero by 2050 requires 1,163 GW of total wind capacity That would necessitate approximately 328,501 WIND TURBINES Meaning the EU and UK would have to deploy an additional

9,350 WIND TURBINES every year from now until 2050!





Historically, the EU has built 23 GW of new wind and solar a year on average from 2011-2020. In our net-zero pathways, the EU will need to build on average between:

27-79 GW OF SOLAR ANNUALLY 6-25 GW OF ONSHORE WIND ANNUALLY 11-22 GW OF OFFSHORE WIND ANNUALLY

INVESTMENT NEEDS

The EU and UK must invest €672 BILLION in onshore wind, €697 BILLION in offshore wind, and €633 BILLION in solar between 2020-2050 to reach net-zero emissions.



Complementing renewables with other clean energy technologies can save the EU & UK €80 BILLION a year by 2050 compared to a renewables-only strategy.

