A SUSTAINABLE REVOLUTION IN RENEWABLE ENERGY

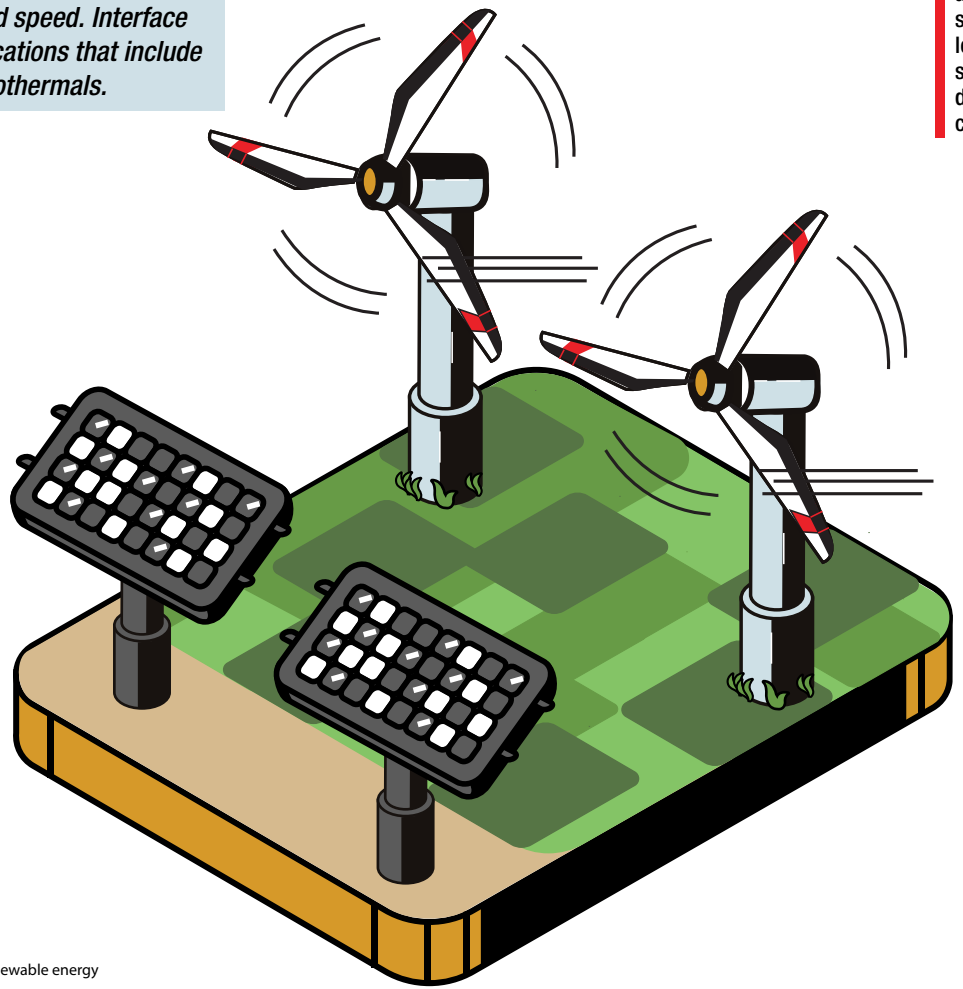
Interface
FORCE MEASUREMENT SOLUTIONS

Interface is a core test and measurement solutions partner to some of the largest energy production and equipment manufacturers in the world. In an era of growing environmental awareness, the search for clean and sustainable energy sources has become a major focus in the world we live in. With advanced sensor-based technologies in demand to manage different segments of renewable energy, including R&D, testing, and equipment manufacturing used to validate production, the renewable energy sector is expanding at rapid speed. Interface solutions are used in renewable energy applications that include wind, hydrogen, solar, wave, biomass, and geothermals.

Interface products play a part in the test, management, and monitoring of equipment used for wind energy generation. It is estimated that **6.59% of global electricity comes from wind power**. Global wind power capacity now stands at over 743 GW. In the US, the figure is higher than it is globally at 9.2% according to BP, Ember, EIA.

Interface provides the industry's most accurate and reliable force sensors. We work with organizations in the energy industry, both traditional and alternatives, such as capturing energy from waves. The types of products we provide to energy solutions market leaders and innovators include our stainless steel load cells, miniature load cells, load pins, IP rated and submersible measurement devices, instrumentation, and custom solutions.

The share electricity generated from renewable energy sources has continued to increase over the last decade, especially from biofuels, solar, and wind. The use of renewable energy currently plays an important role in the the global economy as advancements in adoption and production of renewable technologies supports the efforts ro reduce greenhouse gas emissions.



The U.S. Department of Energy's SunShot Initiative aims to **reduce the price of solar energy 50% by 2030, and predicts a 18% decrease in electricity sector greenhouse gas emissions by 2050**. Power generation from solar PV increased by 26% on last year. Solar PV accounted for 4.5% of total global electricity generation, and it remains the third largest renewable electricity technology behind hydropower and wind. IEA

New policies in major energy markets will help propel annual clean energy investment to more than $2 trillion by 2030, a rise of more than 50% from today. Clean energy becomes a huge opportunity for growth and jobs, and a major arena for international economic competition.

Interface Renewable Energy Solutions

Sources:
How much of U.S. energy consumption and electricity generation comes from renewable energy sources?. EIA. April 28, 2022.
Fernandez, Lucia. Renewable energy in the U.S. - statistics & facts. Statista. July 19, 2023.
World Energy Outlook 2022. IEA. 2022.