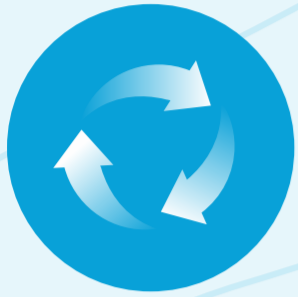


BENEFITS OF OFFSHORE WIND TECHNOLOGY



Offshore wind is a clean renewable source of energy that can help Ireland achieve energy independence.



Offshore winds are consistent enabling offshore wind turbines to generate power more of the time compared to other technologies.



Offshore winds are stronger, so offshore wind turbines generate more electricity. Offshore wind speeds are faster, generating energy more efficiently – a turbine in a 24 km/h wind can generate twice as much energy as a turbine in a 19 km/h wind.



OFFSHORE WIND ENERGY HAS BECOME A COST-EFFECTIVE ENERGY SOURCE.

As more turbines are installed, unit prices drop, benefiting energy users. In recent years, new-build offshore wind has seen the fastest reduction in cost of any renewable energy source.

Offshore wind prices in 2021 were 35% lower than the prevailing prices in 2018.



Offshore wind is a domestic energy source with no fuel import costs. Irish wind energy cost only €1/person/year from 2000–2020.



Offshore wind gives Ireland greater energy security. Every MW of offshore wind means less money spent on imported fossil fuels.



Offshore projects like Oriel, which are close to centres of high energy demand, are more efficient and remove the need for new pylons.



Offshore wind power helps improve Ireland's air quality. It produces no particulate emissions, NO_x or SO_x emissions.



Developing our own renewable energy resources reduces our reliance on imported fossil fuels.



Offshore wind farms are located at sea, meaning they are further away from homes and communities.