

BENEFITS OF OFFSHORE WIND TECHNOLOGY



Offshore wind is a clean renewable source of energy.



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



Offshore winds are stronger, meaning offshore wind turbines generate more electricity. Offshore wind speeds are faster. 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 deployed, 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.

According to Bloomberg New Energy Finance Prices in the second-half of 2019 were US\$78/MWh – down 32% on the same stage in 2018 and 12% from the first half of the year.



Offshore wind is a domestic energy source. Every MW of offshore wind means less money spent on imported electricity.



Offshore wind gives Ireland greater energy security.



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



Offshore wind power produces no particulate emissions or NOx and SOx emissions – helping improve Ireland's air quality.



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



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