

# The need for onshore wind

## National Development

We are in a climate emergency and at the same time seeking to enhance the security of our energy supply. Onshore wind can address both of these. This is recognised by the Scottish Government's National Planning Framework 4 (NPF4)<sup>1</sup> which was published in February 2023. NPF4 is Scotland's long-term spatial planning strategy and categorises onshore wind projects with a generating capacity in excess of 50MW as National Development. In principle, it supports all forms of renewable energy generation including onshore wind. There are national targets for reaching net zero by 2045 and installing 20GW of onshore wind by 2030.

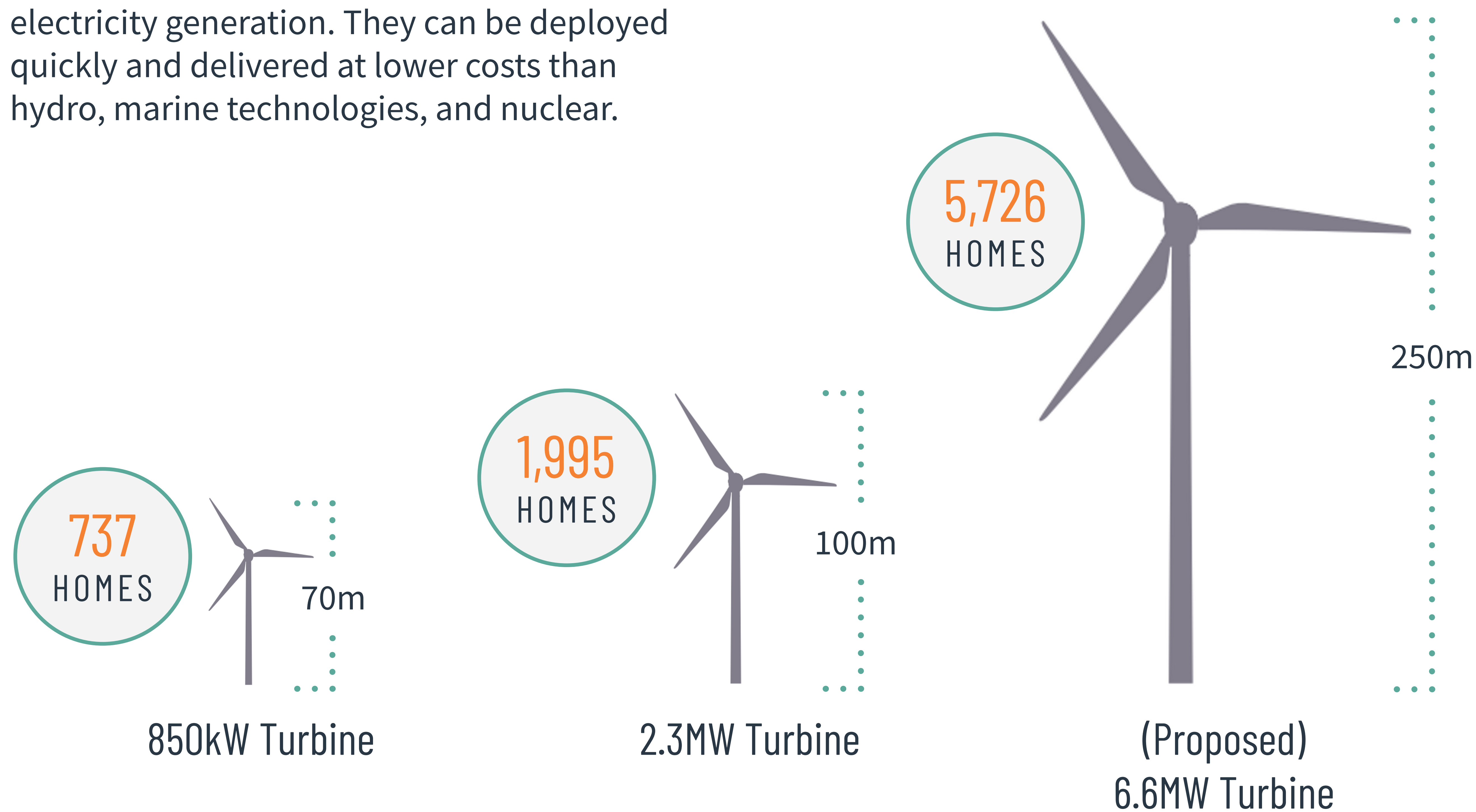
## Low-cost electricity

Onshore wind projects like Kinnelhead, alongside other renewable energy technologies, are the cheapest form of new electricity generation. They can be deployed quickly and delivered at lower costs than hydro, marine technologies, and nuclear.

## Improved performance and output

Turbine technology has advanced considerably in recent years, meaning that turbines are now more efficient which enables them to generate a significantly greater amount of renewable electricity per turbine. Modern taller turbines provide more electricity, which helps address the climate emergency and security of energy supply. The 250m turbines being explored at Kinnelhead would allow for far greater benefits in terms of renewable electricity generation per turbine than smaller turbines would.

*This indicative infographic shows the approximate number of homes<sup>2</sup> that could be powered annually by each of these three different turbine models. Please note that turbines images are not to scale.*



<sup>1</sup> <https://www.gov.scot/publications/national-planning-framework-4/>

<sup>2</sup> Calculated by taking the predicted annual electricity generation of the site (Based on RES assessments, Kinnelhead has a predicted capacity factor of 48.7%) and dividing this by the annual average electricity figures from DESNZ (Department for Energy Security and Net Zero) that the annual UK average domestic household consumption is 3,239 kWh (Jan 2024)

## Kinnelhead Wind Farm Proposal

[kinnelhead-windfarm.co.uk](http://kinnelhead-windfarm.co.uk)

