



## Challenge 1.1

### Installing large volumes offshore

Serial production – analysis of substructure production processes	 Short-term	 Medium priority
<p><u>Description and scope</u></p> <p>Today most, if not all, offshore wind projects use custom-made foundations. Developing a North Sea standard for monopiles, piling procedures and gravity foundations will have a significant impact on cost reductions for offshore wind.</p> <p><u>Recommended research actions</u></p> <ul style="list-style-type: none"><li>• Drive innovative processes to reduce multiplicity of designs to a few that use common components.</li><li>• Produce a catalogue of alternatives.</li><li>• Get approval for new solutions.</li></ul>	<p><u>Milestones</u></p> <ul style="list-style-type: none"><li>• Common designs to be presented by 2022.</li><li>• Designs to be approved by 2024.</li></ul>	