

Benefit identified in application	Beta Phase progress
Improved access to/ creation of new revenues for users of network services	NCENTIVE Beta Phase has significantly de-risked the investment case of novel technologies in nascent inertia markets, therefore making progress towards creating new cost-beneficial market offerings. A key part of this is developing a workable regulatory model to enable offshore wind developer ownership of INCENTIVE solutions.
Cost reductions in operating the networks and wider energy system	NCENTIVE Beta Phase has conducted further CBA, with more detailed data inputs to assess the benefits of INCENTIVE solutions. The results show that INCENTIVE solutions can provide inertia and lower cost, and hence reduce the cost of system operation.
Cost savings for users of network services and Cost savings to consumers	<p>Beta Phase has showed that the deployment of INCENTIVE solutions could reduce the cost of system operation in future, by relying on OWFs to provide inertia rather than stand-alone bespoke assets. This system operation reduction cost can lead onto cost savings for consumers.</p> <p>However, INCENTIVE has found that there is some uncertainty whether INCENTIVE solutions will reduce costs for network users, such as OWF developers. Particularly for the first movers, it is possible that INCENTIVE solutions may increase costs. At a time when future revenues for INCENTIVE solutions are unclear, due to nascent markets and evolving grid code requirements, it is unclear if OWF developers will be able to recover these increased costs. This presents a barrier to deployment. This barrier can be addressed by the further work proposed in D6.2.</p>
Carbon reduction direct or indirect	NCENTIVE Beta Phase has made progress in bringing INCENTIVE solutions to market. It has also shown that, if INCENTIVE solutions can make it to market, they can more cheaply and efficiently support system stability directly from OWFs, thereby enabling further roll out of renewables by maintaining lower carbon system inertia at safe levels at lower cost.

<p>New to market products, processes and services</p>	<p>The derisking of novel technologies both as products through OEM model verification, and also for use in the inertia market for service provision, has accelerated bringing new technologies to BAU and using these to provide ancillary services. The regulatory model devised in Beta Phase is also key to unlocking the deployment of these new products.</p>
<p>UK remains global leader in offshore wind development and integration – Export opportunities</p>	<p>The INCENTIVE Beta Phase project has been a world-leading initiative, investigating inertia provision from offshore wind. INCENTIVE has engaged with stakeholders in a wide variety of countries, and international OWF developers and OEMs are involved in the project and are looking to UK partners (SSEN-T, NHVDCC, ESO, Strathclyde, Carbon Trust and Frazer-Nash) for insights into these novel technologies.</p>