HORIZON 2020

A range of economically viable, innovative and proven HydroKinetic turbines that will enable users to exploit the huge potential of clean, predictable energy in the world's rivers, canals and estuarie

Fact Sheet

Project Information

DP Renewables

Grant agreement ID: 766499

Project website

DOI
10.3030/766499

Project closed

EC signature date
9 June 2017

Start date
1 July 2017

End date
31 March 2020

Funded under
SOCIETAL CHALLENGES - Secure, clean and efficient energy

Total cost
€ 2 927 031,25

EU contribution
€ 1 934 656,50

Coordinated by
DP DESIGNPRO LIMITED
Ireland

Objective

The DP Renewables project aims to commercialise a range of innovative,

hydrokinetic turbines that will offer a reliable solution for generating zero-carbon energy from rivers, estuaries and canals. The range of products to be launched on the market in February 2020 comprises of two different sized turbine devices, 25Kw and 60Kw respectively, which are specifically designed to cater to a niche, 'low-power', small-scale energy generation market.

DP Renewables stems from the success of 'HydroKinetic-25', the SME Instrument Phase 1 project implemented by DesignPro in March-September 2016 that served to prove this innovative idea's economic viability and define a business plan to bring it to market. Phase 2 will see this strategic and validated business plan implemented and the realisation of a project that will have significant positive impact on societal, economic and environmental issues. The project will cater to those with a suitable deployment site, meeting their need for energy security and independence, reducing reliance on imported fossil fuels and lowering carbon emissions.

The project is fully aligned with the growth strategy of the SME and is regarded as a major stepping-stone towards consolidating its international presence while becoming a recognised contributor to the renewable energy spectrum. Despite its large resource potential, hydrokinetic energy is still largely untapped with only 5% exploited to date. Europe, as well as many countries around the world, is rich of small and medium-sized rivers and straits between islands. Existing technologies require very fast flow speeds and large deployment spaces in order to make turbine outputs viable. This cuts off a large majority of the available market from having a feasible solution to use. Our project, DP Renewables, offers this solution, enabling Europe and the world to utilise an abundant, highly accessible resource by harnessing cost-efficient, clean and reliable energy for users.

Fields of science (EuroSciVoc)

engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > **control systems**

engineering and technology > electrical engineering, electronic engineering, information engineering > electrical engineering > power engineering > **electric power generation**

engineering and technology > environmental engineering > energy and fuels > fossil energy > **natural gas**

natural sciences > physical sciences > classical mechanics > fluid mechanics > fluid dynamics > **computational fluid dynamics**

engineering and technology > environmental engineering > energy and fuels > renewable energy > **hydroelectricity**

Keywords

Energy | Renewable | Power | Turbine | River | Electricity | Generation | Sustainability | Hydro | Kinetic | patented | Tidal | In-stream | Stream | Estuary | Estuarine | Low Carbon | Efficient | Green

Programme(s)

H2020-EU.3.3. - SOCIETAL CHALLENGES - Secure, clean and efficient energy MAIN PROGRAMME

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

H2020-EU.2.3.1. - Mainstreaming SME support, especially through a dedicated instrument

Topic(s)

SMEInst-09-2016-2017 - Stimulating the innovation potential of SMEs for a low carbon and efficient energy system

Call for proposal

H2020-SMEInst-2016-2017

See other projects for this call

Sub call

H2020-SMEINST-2-2016-2017

Funding Scheme

SME-2 - SME instrument phase 2

Coordinator

DP DESIGNPRO LIMITED

Net EU contribution

€ 1 934 656,50

Total cost

€ 2 927 031,25

Address

RATHKEALE INDUSTRIAL ESTATE
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Ireland

SME

Yes

Region

Ireland > Southern > Mid-West

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Last update: 3 October 2023

Permalink: https://cordis.europa.eu/project/id/766499