

HORIZON
2020

Commercialisation of Advanced Composite Material Technology: Carbon-Glass Hybrid in PowderEpoxy for Large (60-100m) Wind Turbine Blades

Fact Sheet

Project Information

POWDERBLADE

Grant agreement ID: 730747

[Project website](#) 

DOI

[10.3030/730747](https://doi.org/10.3030/730747) 

Project closed

EC signature date

9 October 2016

Start date

1 November 2016

End date

31 December 2019

Funded under

Horizon 2020 Framework Programme

Total cost

€ 3 558 500,00

EU contribution

€ 2 731 700,00

Coordinated by

EIRECOMPOSITES TEORANTA



Ireland

Objective

POWDERBLADE aims to gain market acceptance and rapid market take up of an innovative materials technology involving carbon/glass fibres in powder epoxy to be commercialised initially in the production of larger wind turbine blades (60 metre

+) The immediate impact of this disruptive materials technology in the wind energy sector will be reduced wind turbine cost (-20%). This in turn will lead to increased productivity of low-carbon energy from more rapid market deployment of large turbines. The reduction in costs and increase in productivity will reduce the Levelised Cost of Electricity (LCOE) for the European citizen – the ultimate beneficiary of this innovation. This ambitious project is led by Éire Composites, an established industry player in composites manufacturing for the Aerospace and Renewable sectors and an experienced FP7/Horizon 2020 participant. In the year after project end, ÉireComposites will generate over €7m in revenue from direct sales of larger blade components using the new materials, increasing to €39m by 2021. The longer term commercial strategy is to focus on recurring revenues from the supply of advanced materials directly to manufacturers to produce blades and other products under license. This revenue stream will generate €60m by 2021. ÉireComposites will employ an additional 78 staff in direct production at project end increasing to 489 employees over both revenue streams three years later. Suzlon, a large wind OEM and end user, is the second industry partner. Their involvement demonstrates early market acceptance of the new technology. Suzlon are committed to investing substantial funds in the commercialisation of this technology in return for the opportunity to gain significantly as the first large industry player to market with light, cost-effective carbon-glass hybrid blades. Technology partner (University of Edinburgh) and innovation specialists (WestBIC) will support the industry partners in achieving the goals of POWDERBLADE.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [mechanical engineering](#) > **[manufacturing engineering](#)**

[engineering and technology](#) > [materials engineering](#) > **[composites](#)**

[social sciences](#) > [political sciences](#) > [political transitions](#) > **[revolutions](#)**

[social sciences](#) > [economics and business](#) > [economics](#) > [production economics](#) > **[productivity](#)**

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > [renewable energy](#) > **[wind power](#)**



Programme(s)

[H2020-EC - Horizon 2020 Framework Programme](#)

MAIN PROGRAMME

[H2020-EU.3. - PRIORITY 'Societal challenges'](#)

[H2020-EU.2. - PRIORITY 'Industrial leadership'](#)

Topic(s)

[FTIPilot-01-2016 - Fast Track to Innovation Pilot](#)

Call for proposal

[H2020-FTIPilot-2016](#)

[See other projects for this call](#)

Sub call

H2020-FTIPilot-2016-1

Funding Scheme

[IA - Innovation action](#)

Coordinator



EIRECOMPOSITES TEORANTA

Net EU contribution

€ 1 535 800,00

Total cost

€ 2 194 000,00

Address

**UDARAS INDUSTRIAL ESTATE AN CHOILL RUA
CO. GALWAY Inverin**

 Ireland 

SME 

Yes

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Participants (3)



THE UNIVERSITY OF EDINBURGH

United Kingdom

Net EU contribution

€ 445 000,00

Address

OLD COLLEGE, SOUTH BRIDGE
EH8 9YL Edinburgh

Region

Scotland > Eastern Scotland > Edinburgh

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 445 000,00



SE BLADES TECHNOLOGY BV

Netherlands

Net EU contribution

€ 393 400,00

Address

Jan Tinbergenstraat 290
7559ST Hengelo 

Region

Oost-Nederland > Overijssel > Twente

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 562 000,00



INNOVATION AND MANAGEMENT CENTRE LIMITED

 Ireland

Net EU contribution

€ 357 500,00

Address

**GALWAY TECHNOLOGY CENTRE MERVUE BUSINESS PARK
H91 E2W5 Galway** 

Region

Ireland > Northern and Western > West

Activity type

Other

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 357 500,00

Last update: 4 September 2022

Permalink: <https://cordis.europa.eu/project/id/730747>

