

# Innovate UK

**Results of Competition: Infrastructure Systems over 12 months or over £100k  
(24-36 Months)**

**Competition Code: 1607\_LO\_Infra\_R1**

**Total available funding is up to £15m for Infrastructure Systems Round 1.**

**Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.**

Participant organisation names	Project title	Proposed project costs	Proposed project grant
<b>Renewable Advice Ltd</b> NetComposites Ltd Alpha Electro-Technology Ltd FGV Cambridge Nanosystems Ltd Transport Systems Catapult Brunel University	Autonomous ice protection combining guided ultrasonic waves and electrothermal systems	£1,540,987	£1,117,918
<b>Project description - provided by applicants</b>			
<p>Offshore wind is considered a key sector for meeting national and international targets with respect to sustainability, energy security, and low electricity prices. As offshore wind costs are decreasing and existing technical difficulties are overcome, the majority of new installations in the UK and abroad are expected to be located in Northern areas where wind resources are abundant but climates are cold and icing conditions are common. Ice protection is essential for the operation of wind turbines operating in cold climates. Ice accretion on the blades of turbines can significantly increase operational costs, lower energy output, and decrease turbine lifetime. This project will develop WIN-D-ICE, a new system which provides automatic ice protection by combining existing state-of-the-art anti- and de-icing technologies. The system will achieve maximum performance at minimum costs and energy use by using sensors to detect ice on the blades and specialised software to automatically control system operation. WIN-D-ICE will act as a catalyst enabling further growth of offshore to achieve national and international commitments and targets with respect to renewables, energy costs, and energy security for the benefit of us all.</p>			

**Note: you can see all Innovate UK-funded projects here**

<https://www.gov.uk/government/publications/innovate-uk-funded-projects> Use the Competition Code given above to search for this competition's results