

InnoEnergy-backed OneWatt launches motor monitoring system

Non-invasive industrial sensors reduce downtime and increase efficiency for the renewables sector

Eindhoven, Netherlands – 17 July 2018

[OneWatt](#), an industrial technology developer backed-by [InnoEnergy](#), Europe’s sustainable energy innovation engine, has launched a unique motor monitoring system for the onshore and offshore wind, hydro-power and industrial sectors.

EARS (Embedded Acoustic Recognition Sensors) is a universal, non-intrusive system, which uses acoustic data to predict equipment motor faults enabling companies to reduce downtime and costs and increase efficiency. The technology’s machine learning algorithms offer wind and hydro-power companies the ability to understand not only when a fault will occur but how and where – optimising maintenance schedules and reducing the energy consumption of equipment.

OneWatt joined InnoEnergy’s Highway™ in 2018 to accelerate the commercialisation of its technology. The Highway programme supports early-stage start-ups in their go-to market phase. InnoEnergy is providing OneWatt with financial assistance, alongside technical product development, target market definition and access to its network of more than 385 project partners.

Paolo Samontanez, CTO of OneWatt, said: “EARS literally listens to motors to prevent equipment failure. Not only does this reduce downtime but it helps companies optimise their maintenance schedules – decreasing costs. This technology has the potential to make a real difference to how the renewables sector operates and we’re currently piloting the system with a number of key clients.”

Jacob Ruiter, CEO of InnoEnergy Benelux, adds: “By predicting maintenance EARS enables wind and hydro-power turbines to run more efficiently. And there’s an added benefit here – it actually reduces the energy consumption of equipment, contributing to Europe’s goal of lowering carbon dioxide emissions. Imagine if every industrial plant in Europe installed these sensors, those cumulative efforts could have a huge environmental impact.”

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InnoEnergy is supported by the EIT,
a body of the European Union

About OneWatt

OneWatt predicts and detects faults in industrial motors by literally listening to motors with our EARS and understanding those signals with AI and frequency analysis.

About InnoEnergy

InnoEnergy is the innovation engine for sustainable energy across Europe.

We support and invest in innovation at every stage of the journey – from classroom to end-customer. With our network of partners, we build connections across Europe, bringing together

inventors and industry, graduates and employers, researchers and entrepreneurs, businesses and markets.

We work in three essential areas of the innovation mix:

Education to help create an informed and ambitious workforce that understands the demands of sustainability and the needs of industry.

Innovation Projects to bring together ideas, inventors and industry to create commercially attractive technologies that deliver real results to customers.

Business Creation Services to support entrepreneurs and start-ups who are expanding Europe's energy ecosystem with their innovative offerings.

Bringing these disciplines together maximises the impact of each, accelerates the development of market-ready solutions, and creates a fertile environment in which we can sell the innovative results of our work.

InnoEnergy was established in 2010 and is supported by the European Institute of Innovation and Technology (EIT).