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Description

The Universitat Politècnica de Catalunya · BarcelonaTech (UPC) is a public institution dedicated to higher education and research that specialises in the fields of engineering, architecture and science. The mission of the UPC's Research Valorisation Unit is to encourage and facilitate the protection, valorisation and transfer of the results of the research carried out at the UPC. Since 1998: more than 1000 projectes overseen / more than 500 patents applied for / more than 250 technology-based companies created / more than 100 technolgies licensed.

Organization Type

University

Organization Size

Yes, I need an Exhibition Visitor Pass Discount Code

Areas of Activities

TECHNOLOGY

1. sensors
2. Internet of things cloud
3. big data
4. data analysis
5. high technology

ENERGY

1. renewables
2. ICT

MOBILITY

1. electric vehicle

SUSTAINABLE CITY

1. architecture

Offer

Precast concrete floating platform to support off-shore deep sea wind turbines

A new system including the design of the platform and erection process has been developed to produce economical and high-reliable floating support to offshore wind turbines in deep sea waters. A prestressed concrete structure built in a dry-dock, which includes both the floater and the tower is towed to the final position, where it is erected in a simple operation. The nacelle and the turbine can be placed without using a high crane.

Cooperation Offered

1. Technical co-operation
2. License agreement

Offer

Measuring technique for reducing the number of voltage sensors in a modular multilevel converter

Using this measuring technique, each voltage sensor is able to measure the capacitor voltages of multiple Sub-Modules (SMs) of a Modular Multilevel Converter (MMC). The proposed technique highly reduces the number of voltage sensors used in MMCs, reducing the costs and complexity of the data acquisition system.

Cooperation Offered

1. License agreement
2. Technical co-operation

Offer

New bio-based insulation material from vegetal pith and natural binders

Rigid insulation boards made from the pith-rich plants (such as corn, sunflower, miscanthos, elderberry) bonded with a small amount of a natural binder. This material can also incorporate different repellents, fungicides and/or flame retardant products to improve their performance. A wide range of materials can be developed to respond to different requirements.