



Superconducting light generator  
for large offshore wind turbines



### **SUPRAPOWER EC Funded project final Workshop**

SUPRAPOWER is an EU FP7 programme co-funded research project that aims to develop a high power, lightweight and reliable superconducting generator for large offshore wind turbines. The project started in December 2012 and finishes in 2017 with the experimental validation of the 10 MW superconducting generator concept by means of a small scale magnetic machine. The most innovative components of this proof of concept as the superconducting coils, modular cryostats and cooling system have similar size and characteristic than in the 10 MW generator.

SUPRAPOWER will hold its final workshop on May 31st to present the main results achieved and lessons learnt during the project, including a visit to a proof of concept scale machine. The workshop will also bring the main European research initiatives in the field of superconducting generators for wind energy.

The workshop will take place at TECNALIA's facilities in Bilbao, Spain. For further **information and registration please contact Mr. Iker Marino** ([iker.marino@tecnalia.com](mailto:iker.marino@tecnalia.com)). This workshop has limited space available and therefore attendance is only by invitation and after confirmation from the organization.

## SUPRAPOWER project Workshop – 31st May 2017 (9:00-16:15)

**08:45**Registration and Welcome coffee.

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**09:00**Welcome and Introduction.

Iker Marino, SUPRAPOWER coordinator. TECNALIA.

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**09:15**EC vision on offshore wind (TBD).

Susanna Galloni, European Commission.

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**09:30**SUPRAPOWER project.

**Superconducting coils design and manufacturing.**

Matteo Tropeano. COLUMBUS.

**Cryogen free cooling systems and cryostats.**

KIT.

**MgB2 cryogen free superconducting generator concept experimental validation.**

TECNALIA .

**10 MW Superconducting wind turbine .**

INGETEAM .

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**11:15**Coffee break.

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**11:45**Superconducting high power wind generators.

**INNWIND Project.**

Henk Polinder. TU DELFT.

**Design of a new generation of generators and ancillary systems for wind energy based on superconducting materials.**

Xavier Granados. ICMAB-CSIC.

**EcoSwing Project.**

Markus Bauer. THEVA.

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**13:00**Panel Discussion (Superconducting Generators Projects).

Chaired by Jose Luis Villate, Head of Marine Energy Unit, TECNALIA.

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**13:30**Lunch and Group photo.

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**15:00**Visit to SUPRAPOWER scale machine.

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**16:00**Closing remarks.

Iker Marino, SUPRAPOWER coordinator. TECNALIA.

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**Venue: TECNALIA (Parque Científico y Tecnológico de Bizkaia, C/Geldo, Edificio 700, Derio, Spain)**



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