

PRESS RELEASE



Sea-GRID est un appel à manifestation d'intérêt proposé par :



Avec le soutien de :



Nantes, 7 February 2020

Centrale Nantes, RTE and Enedis officially kick off the Sea-GRID Call for Expression of Interest

SMILE showroom, Friday 7 February 2020 - Centrale Nantes, RTE and Enedis, alongside partners S2E2, Pôle Mer Bretagne Atlantique, SMILE, Weamec and Solutions&Co, opened the Sea-GRID Call for Expression of Interest. Sea-GRID aims to develop concrete and innovative solutions, based on energy produced by marine renewable energy technologies (MRE) at the SEM-REV test site, run by Centrale Nantes.

The final objective of the projects proposed will be to develop technological components related to the offshore production of energy, as well as its local uses on shore. These solutions should offer added value in terms of managing the electricity produced offshore (smart grids).

Sea-GRID relies on the facilities and skills of the three organisers: Centrale Nantes, via its SEM-REV offshore test site, which already supplies electricity to the grid, and RTE & Enedis, who are responsible respectively for the transmission and distribution of electricity across the grid.

Expressions of interest should propose solutions for the electrical connection between sea and shore:

- OFFSHORE: Via a floating platform to test - in real conditions - the electrical machines of future offshore power substations and solutions for energy storage and monitoring at sea.
- ONSHORE: Through the implementation of a concrete example of a smart grid, which will be the interface between electricity produced offshore and its local use (e.g. carbon neutral mobility solution, storage, self-consumption...).

The above list is not intended to be exhaustive. Expressions of interest may address one or both parts.

The projects submitted may be individual or collaborative, provided that at least one partner is based in the Pays de la Loire region.

Selected projects will benefit from the technical support of Centrale Nantes, ENEDIS and RTE to confirm the feasibility of their project with a view to deploying a demonstrator at the SEM-REV site.

They will also have the support of Sea-GRID partners: Pôle Mer Bretagne Atlantique, Pôle S2E2, SMILE, Solutions&Co and WEAMEC.

WEAMEC is also offering the possibility of submitting [seed projects](#) within the Sea-GRID call, and has set aside a budget for 3 to 4 winners.

Applications are open until Tuesday 7 April 2020. The winning projects will be announced at SEANERGY on 10/11 June at Nantes Exhibition Centre (Parc Expo de Nantes).

About Centrale Nantes

Founded in 1919, Centrale Nantes is a French engineering school and member of the Ecoles Centrale Group. Its undergraduate, Master and PhD programmes are based on the latest scientific and technological developments and the best management practices. At Centrale Nantes, research and training are organised into three key areas for growth and innovation: manufacturing, energy transition and healthcare. With research platforms ranging from digital simulation to prototyping using full scale models and an incubator with 20 years of experience in supporting start-up projects, the school has two major tools for innovation and creation, working hand in hand with industry. Centrale Nantes promotes its teaching and research capabilities at international level through around 100 partnerships with prestigious universities and schools worldwide.

Centrale Nantes welcomes 2,410 students, including 1,440 undergraduate students, 170 Executive Education and ITII degree apprenticeship students, 270 PhD students, 430 Masters students, and 100 Bachelor/Foundation Master students on its 40-acre campus.

For more information visit: www.ec-nantes.fr

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Press Contact: Christine Besneux – christine.besneux@ec-nantes.fr – 02 55 58 90 01 - 06 20 93 44 15

About RTE

RTE, (Réseau de Transport d'Électricité), is the French transmission system operator. Its role is to ensure that all customers have access to an economical, safe and clean power supply. RTE connects its customers via transmission infrastructure and provides them with all the tools and services they need to take advantage of it to meet their needs, with a view to economic efficiency, respect for the environment and security of energy supply. To this end, RTE operates, maintains and develops the high and extra-high voltage network, ensuring the smooth operation and safety of the power system. RTE conveys electricity between (French and European) electricity suppliers and consumers, whether they be electricity distributors or industrial companies directly connected to the transmission system. 105,000 km of lines between 63,000 and 400,000 volts and 50 cross-border lines connect the French grid to 33 European countries, offering opportunities for electricity exchange that are essential for the economic optimization of the power system. RTE employs 8,500 people. Connecting marine renewable energies is a natural extension of RTE's know-how on land. The French state has therefore entrusted RTE with project management and financing for the connection of marine renewable energies in France.

Press Contact: Clara Brouillet - Clara.Brouillet@rte-france.com - 02 40 67 38 87 - 06 98 70 61 64

About Enedis

Enedis, a new-generation public service company, supporting French regions in their energy transition

Enedis manages the public electricity distribution network for 95% of continental France. Every day, its 38 700 employees oversee the operation, maintenance and development of a network serving 36 million customers. The company develops, operates, modernises and maintains 1.4 million kilometres of low and medium voltage (380 and 20,000 volts) electricity network and manages the associated data. Enedis connects customers and carries out 24/7 troubleshooting, meter reading and all technical interventions. It is responsible for the continuity and quality of electricity distribution as well as non-discriminatory access to the network. As a local public player in the French system and through the provision of energy data, Enedis also supports local authorities in their regional projects: new districts, development of renewable energies, self-consumption, storage, flexibility and the growth of electric mobility. The company is preparing for the technological shift in the energy sector, anticipating changes in the French energy mix and the role of digital technology in electricity

consumption. Enedis is positioned at the heart of energy transition by working to modernise the network and investing in numerous French and European smart grid projects, such as Smile (Smart Ideas to Link Energies).

Press Contact: Coline Bert - Coline.bert@enedis.fr