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pcn-energie@recherche.gouv.fr

**Partner search**

**Date (10-07-20)**

* **(\*) Relevant topic in work programme**

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| **LC-GD-2-1-2020: Demonstration of innovative critical technologies to enable future large scale deployment of offshore renewable energy technologies** |

* **Quick description of the project**

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| EOLINK is developing cost-effective floating wind farms, targeting 35 €/MWh by 2030. EOLINK enables a higher power/weight ratio thanks to its patented pyramidal structure. In 2018, the 1/10th scale prototype of 12 MW has been grid connected.  Next project is a 5 MW demonstrator to be commissioned in 2022 close to the French coasts. EOLINK floating wind turbine is based on a semi-submersible twin hull float similar to some offshore oil and gas structures. The float has a free orientation around its single point mooring system in order to face the wind. EOLINK works both with naval and wind turbine industries.  EOLINK is planning first commercial application in 2024 and industrialization should begin on 2026. The unique concept, based on a pyramidal structure offers wide spaces inside the structure and bellow water for other technologies or electricity storage. EOLINK is searching for partners to work together on the many optimizations and co-developments available on its floating wind turbine such as :   1. Synthetic mooring lines for floating wind turbines semi-taught anchoring 2. Fast electric connection for offshore floating wind turbine 3. Fast mechanic connection for offshore floating wind turbine 4. Industrial process for mast and turbine assembly for EOLINK floating wind turbine 5. LIDAR management for offshore floating wind farms 6. Energy storage in an offshore semi-submersible structure. 7. 2 points mounted wind generator development, adapted to EOLINK pyramidal structure 8. Co-activities (aquaculture, fishing)   **(describe the objectives, activities, partners requested and their skills)** |

* **(\*) Do you intend to apply as ? :**

**Participant : Yes**

**Coordinator : Yes**

**(\*) Either Description of the expertise requested (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| EOLINK is searching for any experienced companies in offshore shipbuilding and offshore wind turbines. EOLINK is targeting the “offshore power generating system” subject of the call area 2 “secure clean and affordable energy”. Expertise on the following subjects is desired.   1. Synthetic mooring lines for floating wind turbines semi-taught anchoring 2. Fast electric connection for offshore floating wind turbine 3. Fast mechanic connection for offshore floating wind turbine 4. Industrial process for mast and turbine assembly for EOLINK floating wind turbine 5. LIDAR management for offshore floating wind farms 6. Energy storage in an offshore semi-submersible structure. 7. 2 points mounted wind generator development, adapted to EOLINK pyramidal structure 8. Co-activities (aquaculture, fishing)   **+ key words :** anchoring, submarine operations, offshore electric connection, shipyard building, LIDAR technologies, energy storage, offshore wind farm management. |

**~~Or Description of the expertise proposed (up to 1000 characters) -~~ *~~specify which points of the "expected impact" of the call you are targeting~~***

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| **~~Xxxxxxxxx~~**  **~~+key words :~~** |

**Organisation information**

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| **Organisation and country:**  EOLINK SAS - FRANCE |
| **Type of organisation:**  **□ Enterprise X SME □ Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **X Yes □ No** |
| **Web address:** [**www.eolink.fr**](http://www.eolink.fr) |
| **Description of the organisation:**  Eolink is a research and development SME. The company is developing a floating wind turbine with a single point mooring system, targeting a 35 €/MWh LCoE by 2030. EOLINK’s concept enables a higher power/weight ratio thanks to its patented pyramidal structure. |

**(\*) Contact details**

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**(\*) –Mandatory**