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pcn-energie@recherche.gouv.fr

**Partner search**

**Date (DD-MM-YY)**

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

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| **LC-GD-2-1-2020** |

* **Quick description of the project**

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| **(describe the objectives, activities, partners requested and their skills)** |

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

**Participant: Yes**

**Coordinator: No**

**(\*) 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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| **+ key words:**  |

**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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| ERNEO proposes a high torque to mass ratio direct drive permanent magnet generator for low speed electrical generation: Our patented technology is dedicated to very low speed generation (< 50 rpm) which is, in general, the level of speed of offshore turbines (tidal or wind). The advantage of the technology is the reduction of active parts mass and the dimensions which allows reducing the cost of the generator without reducing the level of efficiency. The technology has been characterized and validated with success recently on a concrete & real condition offshore application at 300 kW -12 rpm and could be developed for higher power (> 1 MW). We would be interested to integrate a project where we would be in charge of the electric generator part: design and manufacturing.**+key words: Direct drive - permanent magnet generator – high torque to mass ratio – low speed – reliability – low maintenance**  |

**Organisation information**

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| **Organisation and country:****ERNEO - 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.erneo.fr** |
| **Description of the organisation:**ERNEO is a French company specializing in the design and manufacture of electric motors, electric generators and magnetic systems. ERNEO already works in Renewable energy application with direct drive generator for small wind turbine, river turbine, micro hydro energy and has also developed a direct generator for marine turbine application currently in operation in real conditions  |

**(\*) Contact details**

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| **Contact person name** | **Nicolas ZIEGLER** |
| **Telephone** | **+33.(0)6.67.66.64.65** |
| **E-mail** | **Nicolas.ziegler@erneo.fr** |
| **Country** | **FRANCE** |

**(\*) –Mandatory**