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Horizon2020@recherche.gouv.fr

**Partner search**

**Date (15-10-20)**

* **(\*) Indicate numbers of relevant topics for Green Deal call:**

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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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| **(describe the objectives, activities, partners requested and their skills)**  SEATURNS is developing a breakthrough wave energy converter based on a patented innovative anchoring system. This system can produce electricity or pressurised water.  Possible applications: industrial production of electricity, freshwater, hydrogen…  After technical & economic studies and tank tests which validated the relevance and performance of the system, SEATURNS is raising funds to finance the sea trials of a pilot.  TRL of the solution: 3-4  We are looking for:   * European partners (industrial or engineering companies, ends users, universities...) working on a project with high needs in green electricity or pressurised water. We could jointly progress, this project on one side and our WEC development on the other. * Long term industrial partners (electricity/freshwater/hydrogen production, mining extraction, O&G, tourism...) to consolidate our technological and then commercial development plan, particularly for export. |

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

**Coordinator: No**

**Participant: 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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| **Xxxxxxxxx**  **+ 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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| SEATURNS is developing a wave energy converter for electricity or pressurised water production. This innovation reconciles technical and economic constraints to reduce production costs and make it competitive on different markets (distribution grids, coastal economic activity zones, isolated sites, etc.). It meets growing needs and global challenges (water, energy, climate).  SEATURNS targets an industrial production market: electricity grids, seawater desalination, hydrogen production, mining activity, O&G, tourism industry….  Rated power: 100 to 200 kW per unit. In a wave farm configuration, several floats are installed on a same mooring line, thus reducing the LCOE. Farms of tens or hundreds of MW can be considered.  This solution will be able to supply a low cost and low carbon electricity or pressurized water to large projects, where the wave resource is high (Atlantic coast of Europe, South Africa, Australia, islands of Oceania, Pacific coast of Canada, USA or Chile).  **+key words: electricity, hydrogen, freshwater, renewables, wave energy** |

**Organisation information**

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| **Organisation and country:**  SEATURNS, France |
| **Type of organisation:**  **□ Enterprise ⌧ SME □ Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **□ Yes ⌧ No** |
| **Web address:**  <https://seaturns.com/> |
| **Description of the organisation:**  SEATURNS is a French start-up, created in 2015 and specialised in wave energy conversion.  The project is managed by two partners, with complementary profiles:   * Vincent TOURNERIE, founding CEO Profile: entrepreneur * Gabriel CANTEINS, Project Manager and partner Profile: versatile engineer |

**(\*) Contact details**

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**(\*) –Mandatory**