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Horizon2020@recherche.gouv.fr

**Partner search**

**Date (16-07-20)**

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

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| LC-GD-3-1-2020 : Closing the industrial carbon cycle to combat climate change |

* **Quick description of the project**

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

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

**Coordinator: ~~Yes~~/No**

**Participant: Yes/~~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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| **Developing innovative, renewable energy driven, catalytic processes, to produce synthetic fuels and chemicals**  The laboratory DEEP of INSA Lyon can address area of „Closing the carbon cycle in industry: renewable energy driven reduction of CO2 using innovative catalytic materials and  technologies” by developping innovative biological processes for CO2 and CO conversion into methane (biomethanation processes). The investigated processes aim at increasing the system productivity by an order of magnitude compared to the systems developed so far. The reactants used for this conversion are water (for CO conversion into CO2 and H2) and hydrogen (for CO2 conversion into methane). Hydrogen is produced from water electrolysis using excess electric power from renewable sources (Power to Gas).  **+key words : Biomethanation** |

**Organisation information**

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| **Organisation and country:**  **INSA Lyon, FRANCE** |
| **Type of organisation:**  **□ Enterprise □ SME X Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **XYes □ No** |
| **Web address:**  <https://www.insa-lyon.fr/en/> |
| **Description of the organisation:**  INSA Lyon is an Engineering School dedicated to Applied Sciences, which makes it a large and unique research center, which joins education activities, 23 research laboratories and industrial partners. As an academic oriented to industry, our institute carries out research in engineering sciences for companies looking for technological solutions. Beside internal and contractual research, we also participate in public research programs, like the framework program in which we have been involved since FP5. The INSA Lyon scientists contribute daily to overcome the essential challenges of research within five main areas: Digital Society and Information, Energy for a Sustainable Development, Environment: Natural, Industrial, and Urban Environments, Global Health and Bioengineering, Transport: Structures, Infrastructures, and Mobility. More details on the five research areas can be found on the INSA Lyon website (https://www.insa-lyon.fr/en/research) |

**(\*) Contact details**

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| **Country** | **FRANCE** |

**(\*) –Mandatory**