**Partner search**

**Date (10-08-20)**

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

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| **LC-GD-1-2-2020** Towards Climate-Neutral and Socially Innovative Cities  **LC-GD-1-3-2020** Climate-resilient Innovation Packages for EU regions  **LC-GD-2-2-2020** Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications  **LC-GD-3-1-2020** Closing the industrial carbon cycle to combat climate change  **LC-GD-5-1-2020** Green airports and ports as hubs for sustainable and smart mobility |

* **Quick description of the project**

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* **(\*) 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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**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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| Expertise, prototyping and small series production of high-performance carbon composite components for the fuel cell industry.  **+key words :** Bipolar plate, composite, hydrogen fuel cells, Redox flow battery, Electrolyzer |

**Organisation information**

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| **Organisation and country:**  HYCCO (France) |
| **Type of organisation:**  **□ Enterprise  SME □ Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **□ Yes  No** |
| **Web address:**  www.hycco.fr |
| **Description of the organisation:**  HYCCO develops high performance composite materials for the hydrogen industry. HYCCO can produce electrically conductive composite components, such as bipolar plates for:   * Proton Exchange Membrane Fuel Cells (PEMFCs, low and high temperature), * REDOX flow battery, * PEM Electrolyser.   We can adapt our polymer so it fits the durability of the final application needs. We thus can produce **durable** (> 20 000h for PEMFCs bipolar plate for instance), **compact** (0.4mm), and **ultra-light** (<1.5 g/cm3), composite components with high electrical conductivity (ASR < 20 mΩ.cm2).  HYCCO is a SME located in Toulouse and is in capacity to support a project from technological design, to integration and small series production.  HYCCO can perform:   * Components design * Prototypes realisation and integration service * Lab testing (electrical conductivity, hydrogen permeation, porosity measurement, mechanical strength, accelerated ageing test in various chemical environments etc…) * PEMFC (low and high temperature) testing (15W – 1kW) |

**(\*) Contact details**

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| **Country** | **France** |

**(\*) –Mandatory**