**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** [x]  **SME □ Academic □Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?****□ Yes** [x]  **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)
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**(\*) Contact details**

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**(\*) –Mandatory**