

Organisation name: IFP Energies nouvelles (IFPEN)

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Targeted topics (keep only the topic(s) of interest)

<u>LC-SC3-SCC-1-2018-2019-2020</u>	Smart Cities and Communities	IA
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Competencies

- *Organisation competencies*
 - IFP Energies nouvelles is a public-sector research, innovation and training center active in the fields of **energy, transport and the environment**
 - Main R&I activities are related to **sustainable mobility and new energies** (wind, geothermal, energy storage, biofuels)
 - From basic research and applied research to product / process industrial development, including **economic and environmental (LCA) performance assessment**
- *Organisation experience in the European project*
 - Huge experience of IFPEN in participating / coordinating European project (FP6, FP7, H2020), mainly in the field of carbon capture and storage, biofuels, mobility, wind energy – including several demonstration projects (industrial pilots)
- *The skills you can bring*
 - Prospective scenarios for energy (inc. storage) / mobility (TIMES MARKAL), coupling with LCA
 - Development of innovative and cost-effective energy storage technologies (1MW – 200 MW) – electricity (compressed air, flow batteries), heat (zeolithes, aquifer storage)
 - Development of smart (electro)mobility technologies

Project idea

- *To participate to a project to implement a Positive Energy District*
 - Where IFPEN can bring its knowledge, and its specific technologies and modelling tools
 - From technology design up to demonstration phase

