

Section 1 - Contact details

Organisation Name (full name)	SOMEFI S.p.A
Type of organisation	<input type="checkbox"/> University <input type="checkbox"/> Public Research Centre <input type="checkbox"/> Large Scale Enterprise <input checked="" type="checkbox"/> Small and Medium Scale Enterprise <input type="checkbox"/> Public Body <input type="checkbox"/> International NGO <input type="checkbox"/> National NGO
City	Milano
Country	Italy
www address	www.somefi.it
Contact person (name and surname)	Luca Mauri
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Email	luca.mauri@somefi.it
Partnership interest (tick one)	<input type="checkbox"/> Consortium leader looking for partners <input checked="" type="checkbox"/> Partner looking for consortium/consortium leader

Section 2 – Sector of interest

Work programme	HORIZON-JTI-CLEANH2-2022 (HORIZON-JTI-CLEANH2-2022-2)
Topic according to the work programme	Development and demonstration of mobile and stationary compressed hydrogen refueling solutions for application in inland shipping and short-distance maritime operations

Section 3 - Description of the expertise sought

Description of the expertise (max 2.000 characters)	Born in 1964, SOMEFI is an engineering boutique provider of packaged solution for the custody transfer metering of liquids other than water, such as hydrocarbons and chemicals, in both gaseous and liquid form. In the dedicated context of hydrogen production, SOMEFI has designed a turn-key solution for the metering and managing of high-pressure hydrogen loading on bundle trailers according OIML R-139, EIGA doc 15/21 and ISO 19880-1 and other applicable standards
Research Fields	SOMEFI is constantly upgrading the know-how of its technicians in the development of electronics and smart-meter interface for harsh and difficult metering process conditions
Keywords describing the expertise (if needed more than one)	Custody transfer metering, hydrogen loading process, EPC-lump sum solutions
Previous Related Projects / Research Experience	Enel Green Power / Carlentini hydrogen valley (design phase)

<p>Short Description of the Project idea (if foreseeable)</p>	<p>With more than 50 years of experienced know-how in Oil&Gas custody transfer market, SOMEFI has lately started to look at renewables designing its own packaged turn-key solution for high-pressure hydrogen bundle trailers loading. This solution, completely engineered by SOMEFI, lays on Coriolis mass meter capability to measure high-pressure gas flow with superior accuracy in an independent manner from process conditions and measured medium. In SOMEFI's solution, measured flow values will be linked to a centralized electronic (flow computer) capable of storing all process variables and managing the loading process acting through a Flow Control Valve. Safety of the loading will be ensured by the presence of internal safety devices (safety valves and ESV) and external safety devices (capacitive grounding monitor). Hydrogen purity will be also monitored and constantly measured by a special fuel cell – based analyzer. The package will be realized in AISI 316L stainless steel with Svagelok tube connections and will be capable to handle pressures till 350 bar.</p> <p>SOMEFI's solution will be compliant with OIML R-139, EIGA doc 15/21 and ISO 19880-1 (and other applicable standards) and will be marked according ATEX 2014/34/UE requirements. SOMEFI is also an authorized manufacturer for packages to be installed in dangerous Ex Areas and of custody transfer solutions under 2014/32/UE MID directive. Lastly, thanks to its internal engineering and quality team, SOMEFI actively cooperates with metrology institution and Notified Bodies (i.e. KIWA Cermet) to develop the best-grade solutions compliant with project and regulations requirements</p>
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