

International Brokerage Event
Istanbul 30/9/2016



Terragenic

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Description of the Organization



- Terragenic's revolutionary hydrogen energy storage technology enables five times the energy of standard batteries and with only five minutes for refueling time.
- Using our solution, E-bus driving range can be extended from 250km (battery based) to 1,100km (Terragenic based), assuming same system weight.
- The company was established in 2014. We are a five people team. We were so far funded by the founders and initial seed investment.
- We were recently awarded with **Horizon 20/20 Phase-1** grant with very high mark. **Now seek partners for Phase-2 application**
- We seek support in finding partners for our phase 2 application



	Terragenic	Li-Io Battery*
Bus range (km)	1,100	250
Re-charging (minutes)	5	300
Battery weight (kg)	1,450	1,450

Description of the your research interest



- We developed a safe and cost competitive hydrogen on-demand storage system based on liquid solution.
- Our research is focused on the chemistry of a rich Borohydride (“BH”) based solution, catalyst and a proprietary BH synthesis process.
- Our technology is innovative and solves known handling, cost and system problems associated with BH based solutions.
- These days we demonstrate the technology with the [E-bike demonstrator](#).
- Our team’s expertise is mostly chemistry and electro-chemistry. The team is led by Dr. Silberman that has over 30 years of experience in this field.

Please add relevant 2017 CALL TOPIC
Please add TITLE of the PROJECT IDEA



- Objectives:
 - To complete a demonstrator of a PEM fuel-cell vehicle based on our hydrogen-on-demand system
 - Demonstrate the simple handling, reliability and cost competitiveness of our system and generated Hydrogen
- Relevant 2017 CALL TOPIC
 - GV-01-2017 Optimization of heavy duty vehicles for alternative fuels use
- Expected results
 - A vehicle demonstrator
 - Testing and demonstrating of the vehicle

Consortium - required partners



No	Expertise	Type	Country	Role in the project
01	Vehicle OEM	IND	Europe	Integrate our hydrogen system with PEM fuel-cell vehicle
02	Hydrogen and fuel cell vehicle services	SME	Europe	Integrate our hydrogen system with PEM fuel-cell vehicle
03	Hydrogen based transport projects	Gov	Europe	Provide testing and demonstrating environment for vehicle operation
04				
05				
06				
07				
08				

Consortium - profile of known partners *(if any)*



No	Partner Name	Type	Country	Role in the Project
01	n.a.	RTD		
02	n.a.	SME		
03	n.a.	IND		
04				
05				
06				
07				
08				

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