

Abengoa celebrates a new milestone in the Sun-to-Liquid Project

- Funded by the European Union, its objective is the production of renewable transportation fuels from concentrated sunlight.
- The project now succeeded to demonstrate the first synthesis of solar kerosene

June 13th, 2019 - Abengoa (MCE: ABG/P:SM), the international company that applies innovative technology solutions for sustainability in the infrastructures, energy and water sectors, has just celebrated a new milestone in the development of the Sun-to-Liquid project, in which the company participates together with six partners and/or collaborators: ETH Zürich, IMDEA Energía, DLR, HyGear Technology & Services B.V., Bauhaus Luftfahrt e.V. and ARTTIC.

The project has just succeeded to demonstrate the first synthesis of solar kerosene, validating the pilot-scale process in an innovative solar thermal tower plant that provides the energy needed to produce fuel from water and CO₂, which is the main objective of Sun-to-Liquid.

“This technological demonstration can have important implications for the transportation sectors, especially for the long-haul aviation and shipping sectors which are strongly dependent on drop-in hydrocarbon fuels”, announced project coordinator Dr. Andreas Sizmann of Bauhaus Luftfahrt, in a launching event in which all the members of the consortium explained to all participants the main components of the pilot plant, located in the IMDEA Energy Institute in Móstoles (Spain).

“We are now a step closer to living on a renewable ‘energy income’ instead of burning our fossil ‘energy heritage’. This is a necessary step to protect our environment.”, Dr. Andreas explained to the media and all attendants.

Sun-to-Liquid is the result of the successful European Solar-Jet project, in which the basic technology was developed, and the first tests were carried out on the production of jet fuel on a laboratory scale. Now, Sun-to-Liquid has scaled up this technology on sun testing at a solar tower.

Compared to conventional fossil-derived jet fuel, the net CO₂ emissions to the atmosphere can be reduced by more than 90 % by using the obtained solar kerosene. Furthermore, since the solar energy-driven process relies on abundant

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feedstock and does not compete with food production, it can thus meet the future fuel demand at the global scale without the need to replace the existing worldwide infrastructure for fuel distribution, storage, and utilization.

About Abengoa

Abengoa (MCE: ABG/P:SM) applies innovative technology solutions for sustainability in the infrastructures, energy and water sectors. (www.abengoa.com)

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