J. Javier Brey, J Fundam Renewable Energy Appl, 5:5
http://dx.doi.org/10.4172/2090-4541.S1.001

OMICS International
conferenceseries.com

International Congress and Expo on
Biofuels & Bioenergy
August 25- 27, 2015 Valencia, Spain

J. Javier Brey
Spanish Hydrogen Association, Spain

Production of bio-hydrogen as fuel to feed transportation infrastructure

The use of hydrogen as transportation fuel is currently growing. On the one hand, manufacturers such as Hyundai and Toyota are already mass producing and selling fuel cell vehicles, while others like Honda, BMW and Nissan will follow suit in the next two years. In addition, certain areas like northern Europe, Japan, South Korea and California are already addressing the deployment of infrastructure to ensure that there are sufficient refueling stations available for these vehicles. However, we now have to address the following issue: how are we going to produce the hydrogen required to supply these stations, to fuel these vehicles? Obviously, hydrogen can be produced using conventional sources: natural gas reforming, but many countries are looking to hydrogen as a way to contribute to energy sustainability, to ensure security of supply and promote local development. This leads them to consider processes for producing hydrogen from biofuels, which has been called bio-hydrogen. From biogas reforming to bioethanol reforming; from conventional catalysis to biological approaches, the production of bio-hydrogen is conceived as a real and economic alternative for the production of hydrogen to power our transportation.

jbrey@abengoa.com

Notes: