

Report on the CTCN Workshop “Global Interaction and the Use of Natural Resources for Hydrogen Production” at the World Hydrogen Energy Conference (WHEC 2018) held in Rio de Janeiro from June 17-22, 2018.

The workshop (WHEC 2018) has been organized by the European Hydrogen Association (EHA) and the Brazilian Hydrogen Association (ABH2), as part of the CTCN Technical Assistance submitted by the Brazilian NDE, under request of COPPE/UFRJ. The WHEC took place on June 20th 2018, with the objective to show different options for hydrogen production in large scale from renewable energy available today in Brazil and the potential applications to mitigate climate change.

The CTCN is the operational arm of the UNFCCC Technology Mechanism, hosted by the UN Environment Programme (UNEP) and the UN Industrial Development Organization (UNIDO). The Centre promotes the accelerated transfer of environmentally sound technologies for low carbon and climate resilient development at the request of developing countries. We provide technology solutions, capacity building and advice on policy, legal and regulatory frameworks tailored to the needs of individual countries.

Chaired by Marieke Reijalt, Paulo Emílio de Miranda and Monica Saraiva Panik, the workshop had approximately 50 participants:

- From Government authorities such as: Ministry of Energy from Mexico; Cooperation Agency from Chile; the Brazilian Ministry of Science, Technology, Innovations and Communications (MCTIC); and Itaipu Binacional, a Brazilian state owned company.
- From Official Agencies such as: The European Hydrogen Association (EHA); the CTCN; and ANFAVEA (Brazilian Vehicle Manufactures Association).
- And from the Private Sector such as: ThyssenKrupp, Base Energia Sustentável and Ballard Power Systems.

The following speakers made high quality presentations:

- Mr. Federico Villatico Campbell – CTCN Coordinator for Latin America: CTCN Climate Technology Centre & Network.
- Mr. Márcio Rojas da Cruz – Brazilian NDE Representative: How Brazil can contribute to mitigate climate change and its role in the global context.
- Mr. Antonio Carlos Fonseca Santos Jr. – General Director of the Itaipu Binacional: Itaipu hydropower energy production and its potential for hydrogen production.
- Mr. Demóstenes Barbosa da Silva – President of the Base Energia Sustentável: Large scale hydrogen production from renewable energy sources in Brazil.
- Mr. Pedro Santos Bentancourt – Vice-President of the ANFAVEA (Brazilian Association of Vehicle Manufacturers): The Brazilian Transport and Industry sectors.

- Mr. Silvano Pozzi – Product Line Management Director of the Ballard Power Systems: Feasibility study & business case for fuel cell system's application in the urban transport today

There were wall Monitors showing the Fuel Cell Hydrogen Joint Undertaking Projects such as: JIVE, Don Quichote, H2Future, PACE, DEMCOPEM-2MW, KnowHY, HyResponse.

Results:

Latin American Countries representatives and Latin American Hydrogen Associations representatives met after the workshop and have exchanged WhatsApp numbers to be used as communication tool to discuss about joint initiatives on hydrogen and fuel cell technologies for climate change mitigation.

Thanks to the CTCN workshop, it was the first time that the topic "Climate Change" was included in the official program of the World Hydrogen Energy Conference. This initiative made it possible to broaden the perception of the role of hydrogen on climate change mitigation. WHEC 2020, to be held in Copenhagen, is an opportunity to increase this vision and awareness.

Hydrogen and fuel cell technologies can play a significant role in mitigating Climate Change in the transport and energy generation sector.

CTCN link where information about the WHEC 2018 workshop is available in: <https://www.ctc-n.org/news/ctcn-assisted-brazil-mobilize-brazilian-hydrogen-energy-research-and-development-network>











