

# Hydrogen Energy in Brazil

## Development and deployment Projects:

- Third Prototype of a Hybrid Electric-Hydrogen Fuel Cell Bus – LabH2 – COPPE/UFRJ
- Production-ready prototype of a Triptych Catamaran (electric, hydrogen and ethanol) for 100 passengers under fabrication – LabH2 – COPPE/UFRJ

## Facilities:

- Hydrogen Research Center at Itapu Technological Center  
Hydrogen Production using Spilled Turbinable Energy from ITAIPU



Source: [pti.org.br/hidrogenio](http://pti.org.br/hidrogenio)

## Political Support :

- Brazilian Minister of Science and Technology, Astronaut Marcos Pontes, visiting the Hybrid Electric-Hydrogen Fuel Cell Bus at LabH2 – COPPE/UFRJ



Source: Divulgação COPPE/UFRJ

## Initiatives:

- Nov. 7-8, 2019 First Congress of the Brazilian Hydrogen Association



## Funding Institutions/Companies:



## Technology Development Institutes/Companies:



# Green Hydrogen Production



From Spilled Turbinable Energy  
(Itaipu 2018)

**7,600 t H<sub>2</sub>**

Itaipu produces 15% of the  
Brazilian electrical energy

Source: Itaipu Binacional; Relatório Anual 2018,

[www.itaipu.gov.br](http://www.itaipu.gov.br)



755 participants  
(Brazil 386) from  
51 countries

# WHEC

22<sup>nd</sup> WORLD HYDROGEN  
ENERGY CONFERENCE 2018

Rio de Janeiro



Conference  
with 414  
presentations  
and 9  
workshops

Trade fair: 35  
exhibitors  
from 5  
countries

Four  
Technical  
Tours

Hydrogen  
Council  
Roundtable

 International  
Energy Agency  
**Hydrogen Executive  
Committee Meeting**

11th World  
Bioenergy  
Symposium

Official support



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Conference program sponsor

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Partner



Deutsch-Brasilianische  
Industrie- und Handelskammer  
Câmara de Comércio e Indústria  
Brasil-Alemanha



Media partner





# 1<sup>st</sup> Brazilian Hydrogen Congress

Rio de Janeiro – Nov. 7-8, 2019



## Themes Approached:

- Hydrogen Energy, Energy Matrix and Climate Change
- Projects and Innovations in Hydrogen Energy
- Routes for Hydrogen Production
- Industry/Services and Market Penetration of Hydrogen Based Technologies
- Hydrogen Regulation, Transport and Logistics
- Fuel Cells