



National Hydrogen Centre (CNH2)  
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ISO 9001  
ISO 14001

BUREAU VERITAS  
Certification

N° ES078680 - ES078681



## VERIFICATION OF A HYDROGEN PRODUCTION SYSTEM BY ELECTROLYSIS DEVELOPED BY HYDROTECH2

The **Hydrogen and Fuel Cell Technology Experimentation National Centre** (CNH2) is a nationwide research centre focused on promotion hydrogen and fuel cell technologies, at the service of the entire scientific, technology and industrial community. With its main headquarters located in Puertollano (Ciudad Real, Spain), the **CNH2** was created in 2007 as a Public Consortium between the Ministry of Education and Science (currently the Ministry of Science, Innovation Universities) and the Castilla-La Mancha Regional Government (Spain).

The **CNH2** is a high prestige industry benchmark centre on the national and international level, which has been part of several collaborations with universities, technology centres and different kinds of companies. The **CNH2** aims to promote technology transfer, support the creation of technology-based companies, collaborate in the development of regulations and technology standards, as well as dissemination activities.

On behalf of the **CNH2**, Mr. Emilio Nieto Gallego, with D.N.I n° 32653993-L, as representative and Director of this centre,

### DECLARE

That the **CNH2** has carried out a verification of the hydrogen production system ECO-H2 proposed by the company **HYDROTECH2**, during May 24th and 25th, 2019 in Santiago de Chile (Republic of Chile), together with Mr. Jorge Garcés (CTO) and Ms. Rosa Argomedo (CEO) of this company. This system is based on an innovation proposed by **HYDROTECH2** of an alkaline electrolysis process at low temperature.

According to the verifications made during those days by Mr. Ernesto Amores Vera, of the Applications Unit of the **CNH2**, it has been verified that:

- The system proposed by **HYDROTECH2** is an innovative process to produce hydrogen and oxygen through the electrolysis of water.
- The system proposed by **HYDROTECH2** produces hydrogen using a high current penetration during several cycles, synchronized with each other, higher than in conventional systems during this part of the process, taking advantage of an electrical strategy developed and patented by this company.
- The system proposed by **HYDROTECH2** produces hydrogen according to an alkaline electrolysis process at low temperature with a fast response in the gas generation.
- The system proposed by **HYDROTECH2** has been designed, manufactured and built in a modular way, so it can be easily scaled up by increasing the number of cells which makes up the equipment to achieve greater power and higher volume of hydrogen produced.

In Puertollano (Ciudad Real, Spain), May 30th 2019



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