

MIBGAS IBHYX, THE FIRST IBERIAN RENEWABLE HYDROGEN PRICE INDEX IS PUBLISHED STARTING TODAY

- THE IBHYX INDEX REFLECTS A PRODUCTION PRICE FOR 100% RENEWABLE HYDROGEN OF 5.85 €/KG (148.36 €/MWH)..
- THIS YEAR, THE WORKING GROUP CREATED AND LED BY MIBGAS HAS JOINED FORCES TO DEFINE A METHODOLOGY FOR CALCULATING THE REFERENCE PRICE OF RENEWABLE HYDROGEN, WHICH REFLECTS A RELIABLE, ROBUST, NON-MANIPULABLE AND REPRESENTATIVE SIGNAL BASED ON COSTS.
- MIBGAS IS NATURALLY CONFIGURED AS A HYDROGEN MARKETPLACE AND WILL CONTINUE NEXT YEAR TO WORK ON THE DEVELOPMENT OF PRICE SIGNALS FOR RENEWABLE HYDROGEN AND RENEWABLE GASES.

Madrid, December 16, 2024 - MIBGAS launches today the first Iberian renewable hydrogen price index, with a price of 5.85 €/kg (148.36 €/MWh). The publication of this new price signal, which will be updated weekly, is made on the website www.greenenergy.mibgas.es, created to host all MIBGAS actions in the field of renewable gases.

The working group created earlier this year and led by MIBGAS has participated in the development of the methodology to calculate a reference price for renewable hydrogen that reflects a reliable, robust, non-manipulable and representative cost-based signal.

The MIBGAS IBHYX reflects the production cost of renewable hydrogen, that is, the minimum price at which a producer is willing to sell to achieve the expected profitability. In other words, the price signal of the offer (*ask*) of renewable hydrogen produced in the Iberian Peninsula in a typical electrolysis plant. This signal represents the levelized cost of producing renewable hydrogen in accordance with the criteria established in the European Union's delegated acts of the for the production of RFNBO (Renewable Fuel of Non Biological Origin) hydrogen.

The methodology employed is based on production costs, focusing initially on defining and unifying criteria to determine the production price of this energy vector in Iberia, as represented by the MIBGAS IBHYX index. The next step will be to determine the demand price (*bid*), which reflects the price an off-taker is willing to pay for renewable hydrogen. The gap or differential between these two prices will indicate the level of liquidity in this nascent market.

COMPETITIVE ADVANTAGE OF THE IBERIAN PENINSULA

MIBGAS is firmly committed to advancing the development of the renewable gases market and, specifically, renewable hydrogen, which is currently almost non-existent. For this reason, it created a working group at the beginning of this year to develop the necessary tasks for the definition of the renewable hydrogen price index in Iberia, due to the advantage that the territory has for being a competitive renewable energy producer. The result of this work is the MIBGAS IBHYX index.

The group is composed of Spanish and Portuguese stakeholders involved in the hydrogen value chain, including producers, retailers, consumers, shippers, academic institutions and representatives of organizations such as the National Commission for Markets and Competition (CNMC), the Ministry for

Ecological Transition and the Demographic Challenge and the Spanish Institute for the Diversification and Saving of Energy (IDAE).

This group has met in five sessions where the definition of a model plant representative of a renewable hydrogen production project in the Iberian Peninsula, all its parameters, as well as the methodology for calculating the levelized cost of hydrogen (LCOH) model, built from the costs and revenues necessary to obtain a certain return on investment in the defined model plant, have been the focus of the different meetings.

The calculation model adopted by MIBGAS to obtain the LCOH is more advanced than the traditional calculation model as it also contemplates all the financial variables associated with the project of the reference hydrogen production plant, as well as those related to the cost of renewable electricity production through the dedicated plant and the one taken from the grid, necessary to calculate the cost of renewable electricity. Detailed information on the adopted model can be found in the microsite developed by MIBGAS,

Launch of a microsite and dedicated branding

MIBGAS has developed a microsite www.greenenergy.mibgas.es along with a unique brand identity that will be used in its renewable gases initiatives. The website will include information about renewable gases and energy efficiency. The MIBGAS IBHYX index, which represents the levelized cost of renewable hydrogen production, will be published weekly on the microsite, as well as the calculation methodology, the evolution of the index and a downloadable file with the historical data.

Additionally, it provides information on applicable regulations and the services MIBGAS offers related to the trading of renewable gases and energy efficiency.

www.greenenergy.mibgas.es/en

MIB GAS
GREEN ENERGY
MARKETPLACE

Index Services Renewable gases Efficiency Regulation English

MIBGAS IBHYX Index **5,85 €/kg**

Our services

In addition to on-screen trading of natural gas and liquefied natural gas products, MIBGAS offers several services related to the trading of renewable gases.

See more

Auctions on request

With this new service, the Iberian market operator provides users of the gas system with this tool so that they can choose the option that best suits their needs for the purchase or sale of renewable gases.

See more

Renewable Gases

Renewable gases are a crucial part of the transition to a sustainable energy system. These gases are produced from renewable sources such as biomass, wind and solar energy, and offer a promising alternative to fossil fuels in sectors such as transport, industry and power generation. These include: Renewable hydrogen, Biomethane and Bio-GNL.

See more