

Press Release

ERSE approves hydrogen injection pilot project for gas transmission network trials

ERSE - Entidade Reguladora dos Serviços Energéticos (Energy Services Regulatory Authority) has approved the pilot project "Hydrogen Injection in the National Gas Transmission Network for tests", promoted by REN Gasodutos, within the Quality of Service Regulations for the electricity and gas sectors scope.

This is a research and demonstration project, part of the [H2REN Programme](#), to respond to national and European energy policy guidelines in the hydrogen field, namely the [National Hydrogen Plan](#).

The pilot project, which will last 18 months, consists in injecting hydrogen into a National Gas Transmission Network (RNTG) section for subsequent transmission into the REN Portgás distribution network, thus supplying a customer's number in the Braga district with a mixture of hydrogen and natural gas.

The aims of the pilot project are: i) to assess and test in a controlled environment the infrastructures performance already prepared to operate with mixtures of up to 10 per cent hydrogen, ii) to test procedures for liaising between transmission and distribution network operators in the context of injecting renewable gases and iii) to test a new system developed to control the quality of gas in the distribution network.

The experience and recommendations resulting from the pilot project will be reflected in the connection processes implementation and consolidation for injecting hydrogen into the networks under the commercial regime, and will make it possible to assess the performance of a Mixing and Injection Station (MIS), which is the equipment associated with hydrogen facilities, in a controlled environment and under different operating regimes.

REN Gasodutos will publicise information on the implementation and results of the project and, during the hydrogen injection periods, will monitor and inform customers who will be supplied by the hydrogen and natural gas mixture. Since the expected hydrogen concentration levels are in line with the operating limits of the equipment for burning natural gas, no constraints are expected for customers.