

# Moving towards **decarbonization.**

**“Hydrogen as an energy vector,”** with **Cristina Maroto, Puertollano Site Manager,** and one of the key people in the company driving the hydrogen industry business line.



**What are the challenges facing the development of green hydrogen?**

Hydrogen production technologies are being widely developed today because the most commonly used technology, water electrolysis, has been improved and analyzed for decades. The main problem, at least in Spain, for the use of hydrogen as an energy vector, is its distribution and storage, which requires infrastructures that still need to be developed. Some countries like Germany are already well ahead of us in, for example, hydrogen plant networks. There is no point in developing green H2 production plants without efficient infrastructures to make its final use a competitive market.

**In what timeframe do you think green hydrogen production will reach a competitive price? What do we need to get to that point?**

Developing green H2 as an energy vector is a key part of the EU Hydrogen Strategy, because we need it to achieve the goal of having a 100% renewable electricity system by 2050. Among the objectives set out by the EU is to decarbonise a large share of the EU's energy consumption by 2050. So all the necessary infrastructure and production and storage plants must continue to be developed to make the price sufficiently competitive for this objective to be achieved.

**How do you think the hydrogen sector as an energy vector will evolve in 2022? What business prospects does your company foresee?**

Because the long-term objectives are very ambitious, all green H2 infrastructures are being developed at a dizzying pace. Thanks to dedicated European funds, the development of H2 projects will grow exponentially by 2022. At CT we are already actively participating in some of these projects and we have even joined newly created associations such as the H2 Cluster of Castilla-La Mancha or AHMUR. In addition, we continue to develop our competencies within the team, with the aim of continuing to actively participate in this important roadmap for the country's energy sector.

**CT is an active member and a key industrial player in the energy transition focused on the use of renewable energies and green hydrogen as a source of energy for industrial purposes, transport and power generation.**

## What do we do?

### Projects



CT provides Support Engineering for the design of Iberdrola's green hydrogen complex in Puertollano, the largest one for industrial use in Europe.

### We are a member of



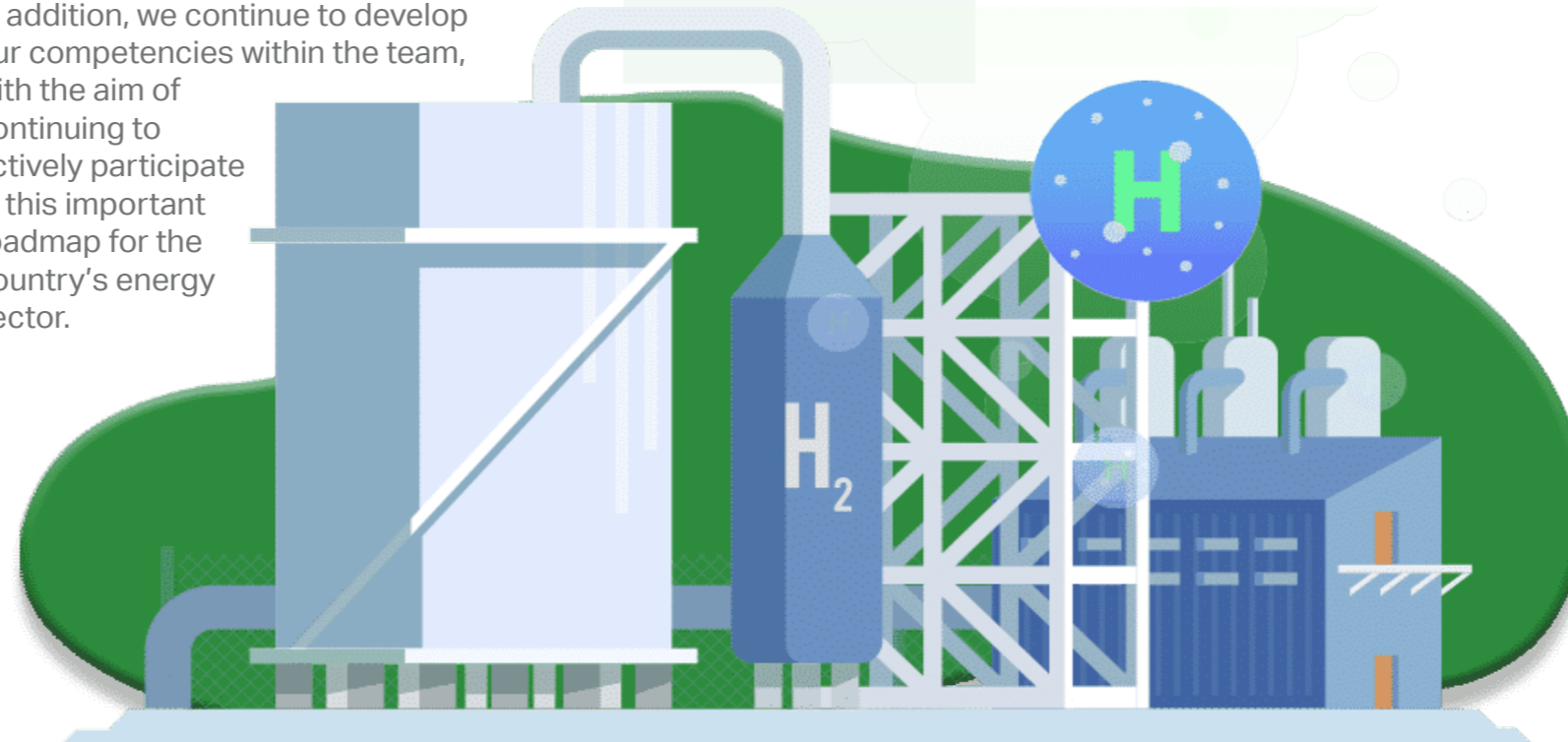
Green Hydrogen Cluster of Castilla la Mancha  
Green Hydrogen Sector Association of the Region of Murcia (AHMUR)

### Training



CT engineers are completing qualification programs as experts in Hydrogen energy and related future technologies:

- Digitalization Industry 4.0
- Innovation management
- Simulation models for H2 systems
- H2 operation uses (production, processing, transport & safe use).



**We deliver.  
You power.**