Andorra energy storage research and development

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After the closure of the "Teruel" thermal power plant (Andorra, Teruel) in 2020, we began to apply the Futur-e plan to promote the development of economic activities and job creation in the area.

The Teruel thermal power plant (Andorra) was built between 1974 and 1979 and has been in operation for more than four decades, forging a deep-rooted bond with the area. It was built with the aim of making extensive use of black lignite from mines located in the Turolense mining basin, mixed with imported coals. Over its lifetime it produced 224,000 GWh, equivalent to one year"s mainland electricity consumption.

On 19 December 2018, we submitted a formal request for closure. In parallel to the request for closure, we voluntarily presented a Future Plan designed to offset the effects of the closure by means of a number of specific measures to promote the development of economic activities and job creation in the area around the plant.

In 2020 the plant was definitively closed down and we started the dismantling process and to draw up a plan for the region that includes the establishment of new industry and the development of renewable energy plants.

In November 2022, through our renewable energy subsidiary Enel Green Power Espa?a, we were awarded the Andorra fair transition tender called by the Ministry of Ecological Transition and the Demographic Challenge.

The Plan presented, which combines new renewable energy capacity with a unique hybridisation of technologies, green hydrogen projects and a synchronous compensator, is further enhanced with a socio-economic development plan.

We will build 14 renewable projects with seven hybridisations. It is a proposition hitherto unique in Spain that allows for greater efficiency of the facilities and an output far greater than the capacity of the plant itself.

The new renewable plants will be located in Albalate del Arzobispo, H?jar, Samper de Calanda-Castelnou, Andorra, Calanda, Alca?iz, La Puebla de H?jar, Jatiel and Alcorisa.

In addition, an electrolyser will be installed that will allow the surplus of renewable energy to be managed for the production of green hydrogen, and a synchronous compensator that will allow this renewable energy to be injected with greater quality and stability, contributing to the proper operation of the electricity transmission network.

The renewable development is accompanied by an industrial plan with companies with which agreements have been struck for the development of their production activity.

In addition, we have also proposed the development of energy communities in nine of the municipalities covered by the fair transition agreement where the renewable energy projects will be located. Self-consumption plants will be installed in various locations in these municipalities, increasing their independence and energy efficiency. In addition, we have committed to reach more than 3,000 self-consumption beneficiaries.

Initiatives in the primary and services sector, which promote training and employment through economic diversification, taking advantage of the region"s endogenous resources, which have been identified in a process of active listening with local agents.

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