



## **Spanish Research Facility for Geological Storage of CO<sub>2</sub>. (Hontomín, Spain)**

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This contribution introduces the first stage of the Spanish research facility for the Geological Storage of carbon dioxide. The Spanish Government and the European Union, through the state-own foundation “Ciudad de la Energía” (CIUDEN), is developing a facility in Hontomin (Burgos, Spain) within the Spanish research program on Carbon Capture and Storage (CCS). The research aims to demonstrate that CCS is technologically feasible and the most suitable strategy of reducing global warming caused by greenhouse gases emissions. This is a broad multidisciplinary program that involves over 100 scientist and specialist of different disciplines. The geological storage site is located in a dome shape structure. The reservoir is a saline aquifer located at approximately 1500 m depth. It is confined within Lower Jurassic limestones and sealed by Lower Cretaceous detritic formations. The baseline study which is being developed to characterize the site includes a seismic survey which consisted on: 1) a 30 km<sup>2</sup> 3D seismic survey; 2) 2 three-component 2D seismic cross profiles. The preliminary seismic results show an accurate 3D image of the internal structure and the distribution of the physical properties of the study area. This information, has determined the location of the injection and monitoring wells. Plans for the drilling and designs for the monitoring wells and instrumentation are currently being developed.