

Energy transition to a Net Zero Emissions scenario imposes important challenges to electricity generators sector. Nuclear energy plays a strategic role because of the proved contribution to lower CO2 emissions, improve the resilience of the electricity system and its social impact. The International Energy Agency supports the role of Nuclear Energy in future scenarios and the acceleration of Small Modular Reactors (SMR) development to produce electricity, heat and hydrogen with low emissions.

We are witnessing a renovated momentum for the development of [SMR](#) technologies at European and International level with already 3 reactors in operation, 3 under construction, 26 under engineering development and 39 under conceptual design.

Representative of this impulse is the creation of the "[European Industrial Alliance](#)" with the aim of facilitating and accelerating the development and deployment of the first SMR projects in Europe at the beginning of the 2030s.

Given the proven capacity of the nuclear sector in Spain, and the potential for SMR development internationally, CEIDEN launched the SMR Group on November 23rd, 2023, at the headquarters of [IDOM](#) Engineering Company. 30 representatives of different entities, public or private, were present covering training, research, production, fabrication... with full representation of all national actors interested in the subject.

In line with all of the above, thirteen of these companies have joined the aforementioned European Industrial Alliance [\[SEE\]](#)

The attached article [\[READ MORE\]](#) depicts the current national capacity and dedication on the subject of SMR. This article assesses the current state of research and technological progress of the Spanish research groups and companies. The results reveal a significant level of maturity among these groups and companies in various domains and an active involvement in the design of novel SMR.

An example of the role of the SMR group as a forum for debate and promotion, the Energy Commission of the Official College of Industrial Engineers of Madrid (COIIM) and CEIDEN (Energy Technology Platform Nuclear Fission), organized the Conference "["MODULAR REACTORS. NUCLEAR ENERGY FOR A SUSTAINABLE FUTURE."](#) on January 10, 2024, The 1h37 minute video is available at the link. It offers a vision of the strategic role that modular reactors will play in the energy transition towards a neutral emissions scenario.

1. [List of members of the CEIDEN SMR group.](#)
2. [List of entities integrated into the European Industrial Alliance](#)
3. [Article on R&D&i activities in development in Spain on SMR.](#)
4. [Video with the conference from the College of Industrial Engineers of Madrid \(COIIM\) on SMR.](#)
5. [Report on SMRs in the world](#)