

Spain - Training courses for trainers related to clean energy and energy efficiency

Title of inspiring practice	Training courses for trainers related to clean energy and energy efficiency (" <i>Cursos de formación para formadores relacionados con las energías limpias y la eficiencia energética</i> ")
Geographical area	At regional level in Spain, Castilla-La Mancha.
Period of implementation	The Project started in June 2022 and ended in July 2022. Every year in June and July.
Rationale	In collaboration with the Naturgy Foundation, the practice promotes five courses which aim at training VET teachers in the topics of clean energy and energy saving. Teachers are then expected to transfer the content of this training to their classrooms. The courses focus on the topic of (i) sustainable building and refurbishment, (ii) renewable gases, (iii) energy adviser in vulnerable environments, (iv) photovoltaic panels and (v) green and digital gas networks.
Scope of the practice	Training for VET teachers at all levels.
Educational level	Vocational Training Teaching Staff. Basic Education (Basic Level Cycles) and Post-compulsory Secondary Education (Intermediate and Higher Vocational Training).
Introduction and context	<p>The Regional Ministry of Education, Culture and Sports of Castilla-La Mancha has signed an agreement with the Naturgy Foundation (Spanish energy company) to offer courses for teachers on the topics of clean energy and energy saving. The training courses are carried out by trainers of the Naturgy Foundation. The agreement also includes different activities that are developed among stakeholders and are related to environmental policies.</p> <p>The relationship between the Naturgy Foundation and the Regional Ministry goes back years, and this agreement aims at addressing the importance of energy saving and the development of clean energy, mainly in vocational training.</p> <p>The vocational training courses also relate to the implementation of these actions in connection with the following professional families:</p> <ul style="list-style-type: none"> • Building and Civil Works for the course of sustainable building and rehabilitation, • Sociocultural and Community Services for the course of energy adviser in vulnerable environments, • Energy and Water and Chemistry for the course of renewable gases, • Energy and Water, Installation and Maintenance and Electricity and Electronics for the course of photovoltaic panels, • Installation and maintenance for the course of green and digital gas distribution networks course. <p>Each of the five courses pursue specific objectives. For instance, the course on sustainable building and rehabilitation organises classes on topics related to sustainability and explains from a practical point of view the concepts of energy efficiency, demand, ODS 2030, energy certifications or BIM.</p> <p>The course of "Energy adviser in vulnerable environments" provides the social and technical skills necessary for the creation of energy adviser profiles which can be</p>

	<p>employed in municipalities, social entities or even companies facing the problem of energy vulnerability.</p> <p>Similarly, the course on renewable gases provides a solid knowledge base on renewable gas and all its related aspects (technical, regulatory, economic, applications, waste management, etc.).</p> <p>The course on the photovoltaic panels has the goal of explaining the meaning of clean or renewable energies, the context of solar energy, how it is produced and how the photovoltaic system works.</p> <p>The fifth course covers green and digital gas distribution networks and aims at providing trainers with theoretical knowledge on the types of assets used in gas distribution systems (networks, regulating stations, valves, etc.), as well as their operation and maintenance for subsequent transfer to students of thermal and fluid installation cycles.</p> <p>The cost of the courses is borne by the Naturgy Foundation, within the collaboration agreement with the Ministry of Education, Culture and Sports of Castilla-La Mancha. Therefore, it does not involve public expenditure.</p>
Key activities and outcomes	<p>The five courses have been offered to teachers in the region, and a total of 50 VET teachers from Castilla-La Mancha have signed up for them.</p> <p>The courses have been developed within the virtual environment of the training platform of the Regional Centre for Teacher Training.</p> <p>It is specific virtual platform of the Regional Centre for Teacher Training.</p> <p>In there, the teachers can use different app, like Teams.</p> <p>The contents of the courses can be consulted once they are opened directly to the public. The "green and digital gas distribution networks" course is under development, the others have already been offered and developed.</p> <p>There is a high level of involvement of the teaching staff in the development of these courses, with a rating of four out of five in the opinion questionnaires.</p> <p>The principal factors that contributed to the success of the initiative were the important contents of the formation.</p> <p>The project has not encountered any remarkable obstacles.</p>
Other information	<p>This is a vitally important training to address the SDGs of the 2030 Agenda, in particular SDG 7 on affordable and clean energy.</p>
Contacts and sources	<p>Ministry of Education, Culture and Sports of Castilla-La Mancha</p> <p>Vocational Education Training Service</p> <p>Platform of the Regional Centre for Teacher Training of Castilla-La Mancha:</p> <p>https://www.educa.jccm.es/profesorado/es/crfp</p>
Date of update	<p>July 2022</p>