

BUILD UP Skills SPAIN Factsheet	
<b>BUILD UP skills activities of the country</b>	
BUS Pillar I project title (contract number) <sup>1</sup>	BUILD UP Skills Spain (BUILD UP SKILLS ES) IEE/11/BWI/471 - SI2.604353
BUS Pillar II project title (contract number)	Build a greener and a more sustainable 2020 (BUILD UP SKILLS CONSTRUYE2020) IEE/12/BWI/346
Horizon 2020 Construction skills project title (contract number)	n/a
<b>BUILD UP Skills CONSTRUYE2020</b>	
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Project Partners	<ul style="list-style-type: none"> <li>. Labour Foundation for Construction - Fundación Laboral de la Construcción (FLC) (<i>Consortium coordinator</i>)</li> <li>. National Research Council - Consejo Superior de Investigaciones Científicas (CSIC)</li> <li>. National Institute of Qualifications - Ministry of Education (INCUAL)</li> <li>. State Foundation for Training in Employment (FUNDAE)</li> </ul>
Project website	<a href="http://construye2020.eu">http://construye2020.eu</a>
Keywords	Construye 2020, construction workforce, energy consumption, BUILD UP 2020, energy refurbishment
Duration <sup>2</sup>	Start date: 01/10/2013 End date: 30/09/2016
Budget <sup>3</sup>	EUR 826.770 (EU contribution: 75%)
<b>Context</b>	
Summary description <sup>4</sup>	<p>The Spanish national strategy to respond to the energy performance of buildings as well as renewable energy sources usage requirements of the EU, gives priority to actions aimed at renovating buildings.</p> <p>To cover the training needs resulting from this, Spain has a specific legislation and several instruments (e.g. Training System for Employment which regulate vocational training for the employed and unemployed, or the National System of Professional</p>

<sup>1</sup> <https://ec.europa.eu/energy/intelligent/projects/en/projects/build-skills-es>

<sup>2</sup> BUILD UP SKILLS Construye 2020 leaflet

<sup>3</sup> BUILD UP SKILLS Construye 2020 leaflet

<sup>4</sup> BUILD UP Skills Construye2020, Annex I - Description of the Action

	<p>Qualifications, which is developing the National Catalogue of Qualifications, designing the procedures to assess, acknowledge and accredit professional competences, as well as initial and formal training).</p> <p>Despite the legislation and instruments, the VET system and the energy restoration activity still are in need of key competences related to EE and RES (e.g. geothermal and biomass heating installations, insulation, carpentry installation), new training actions and schemes, mechanisms to improve the performance of the VET system and stimulation of the demand of energy restoration activities.</p> <p>All these needs were made concrete in the roadmap developed under Pillar I. Construye 2020 is set out to realise the most relevant ones.</p>
Objectives <sup>5</sup>	<ul style="list-style-type: none"> <li>. To develop the training schemes prioritized in the roadmap</li> <li>. To improve the design of the existing qualifications as well as associated training <ul style="list-style-type: none"> <li>. by incorporating key competences considered as necessary in the field of EE and RES</li> <li>. by designing the training contents of each new competence, and</li> <li>. by adapting professional certificates already available to on-line modality.</li> </ul> </li> <li>. To develop an educative simulator to serve as an interactive training resource in training courses on energy efficiency and installation of RES.</li> <li>. To develop the mechanisms identified on the roadmap in order to improve the Vocational Education and Training Spanish system.</li> <li>. To inform and raise awareness of building users in order to incentivize demand of energy-renovations.</li> <li>. To design and plan the communication actions to be carried out during the implementation of the project.</li> <li>. To monitor and evaluate systematically the quality of the project, in a planned and systematic way, counting on the participation of all the partners.</li> </ul>
Target skills/ professions	Energy efficiency, Renewable energy systems
<b>Project's results and impact</b>	
Results <sup>6</sup>	<ul style="list-style-type: none"> <li>. Training Actions and programs.</li> <li>. Didactical resources: Didactic guides for trainers and trainees by training action, contents manual by training action, app with the</li> </ul>

<sup>5</sup> BUILD UP Skills Construye2020, Annex I - Description of the Action

<sup>6</sup> <https://ec.europa.eu/energy/intelligent/projects/en/projects/build-skills-construye2020>

	<p>training simulator on energy efficiency and RES applied to buildings.</p> <ul style="list-style-type: none"> <li>. EE and RES competencies to be included into professional families of Civil and Building Works, Energy and Water and Installations and Maintenance.</li> <li>. Set of competencies elaborated on geothermal energy systems: General Competence, Units of competence, performance criteria, assessment criteria and training modules.</li> <li>. Professional certificates adapted to e-learning platform: objectives, contents, activities, resources, assessment, platform management, etc.</li> <li>. Tools to observe the building labour market in order to anticipate its changes and to allow training / qualifications institutions to react quicker.</li> <li>. Enhancement of the National Qualification System quality</li> <li>. Integrated information for building workers about professional guidance, training courses, employment, qualifications, mobility, accreditation processes.</li> <li>. Informative campaign with tools to raise awareness about the necessity of undertaking energy restorations of buildings as well as to inform workers about training and qualifications.</li> </ul>
Lessons learnt/ Success factors <sup>7</sup>	<ul style="list-style-type: none"> <li>. Importance of the ICT to divulgate and raise awareness regarding EE and RES solutions. Also, it is really important to foster the delivering of courses on-line as well as to produce new media training resources.</li> <li>. It is absolutely necessary to reach the final users by providing them basic information and general concepts regarding EE and RES solutions in order to stimulate the market demand.</li> <li>. It is necessary to trigger and finance training programs on EE and RES at national level.</li> </ul>
Barriers <sup>8</sup>	<p><b>Economic barriers</b></p> <ul style="list-style-type: none"> <li>• Economic crisis and reorientation of activity</li> <li>• Blocking of financing and lack of demand</li> </ul> <p><b>Administrative Barriers</b></p> <ul style="list-style-type: none"> <li>• SMEs access to training</li> <li>• Lack of guidance</li> <li>• Delays in degrees and accreditations</li> </ul> <p><b>Structural barriers in the sector</b></p> <ul style="list-style-type: none"> <li>• Traditionalism of the sector</li> <li>• Sub-contracting</li> <li>• Developers and Building firms. Responsibilities</li> </ul>

<sup>7</sup> Input from Javier Gonzalez, January 2017

<sup>8</sup> Input from Javier Gonzalez, January 2017

	<b>Educational and cultural barriers</b>			
	<ul style="list-style-type: none"> <li>Workers low initial qualifications.</li> <li>Motivation.</li> <li>The language of foreign workers.</li> </ul>			
Key needs <sup>9</sup>	<ul style="list-style-type: none"> <li>Profitable economic parameters in EE</li> <li>Placement of insulation</li> <li>Aluminium and PVC carpentry</li> <li>Heating and air-conditioning</li> <li>Energy efficiency in buildings</li> <li>Renewable energy systems in buildings</li> <li>Geothermal energy installations</li> <li>Biomass energy installations</li> <li>Retraining trainers in EE and RES</li> </ul>			
Recommendations <sup>10</sup>	<p>In order to achieve energy objectives is absolutely necessary to:</p> <ul style="list-style-type: none"> <li>Raise end users' awareness concerning Energy Efficiency and RES issues</li> <li>Modify RES legislation</li> <li>Invest money for energy training</li> </ul>			
Replicability <sup>11</sup>	<p>It is possible to replicate Construye 2020 project results in others countries, especially in southern Europe ones, for we have similar climate conditions. Consequently, only minor adaptations would be needed to make the results valid for these countries.</p>			
<b>Project indicators</b>				
Common Performance Indicators <sup>12</sup>	Ex ante target	Interim results	Final result	Target 2020
Number of training courses triggered by the action	New training actions: 4 New training programs: 6 Upgraded training programs: 4	5	25	34 courses launched per year
Number of people that will be trained	Trainees: 60 funded by BUII and 60 other funds. Trainers: 30	75	429	227.355 to 486.867 in total. 21.255 to 53.694 in continuous training.

<sup>9</sup> Input from Javier Gonzalez, January 2017

<sup>10</sup> Input from Javier Gonzalez, January 2017

<sup>11</sup> Input from Javier Gonzalez, January 2017

<sup>12</sup> Input from Javier Gonzalez, January 2017

Number of hours taught in the frame of the courses triggered	90 hours per trainee (8.100 hours between trainees and trainers funded by BUSSII and 5.400 hours by other funds)	13.500	23.166	20.461.950 - 43.818.030 hours
Estimated specific cost to qualify each trainee	810 Euro	810	390	810 Euro
Renewable Energy production triggered	455 toe/year	455 toe/year	536 toe/year	45530 toe
Primary energy savings compared to projections	11.876 toe/year	11.876 toe/year	17.670 toe/year	1.111Mtoe 1.111.000 toe
Reduction of greenhouse gas emissions	26,3 t of CO2 per year	26.300	28.995	2.460 kt CO2 2.460.000 tons CO2
<b>PROF/TRAC</b>				
Project Coordinator <sup>13</sup>	Huygen Installatie Adviseurs (NL)			
Participants <sup>14</sup>	<ul style="list-style-type: none"> <li>. Federatie van Verenigingen voor Verwarming en Luchtbehandeling in Europa (NL)</li> <li>. CAE Services GEIE (BE)</li> <li>. Conseil des architectes d'Europe (BE)</li> <li>. Comité Européen de coordination de l'habitat social AISBL (BE)</li> <li>. Stichting Instituut voor Studie en Stimulering van Onderzoek op het Gebied van Gebouwinstallaties (NL)</li> <li>. Instituto Valenciano de la Edificación (ES)</li> <li>. České vysoké učení technické v Praze (CZ)</li> <li>. Aalborg Universitet (DK)</li> <li>. Danvak APS (DK)</li> <li>. Hrvatska komora inženjera strojarstva (HR)</li> <li>. Fundatecyr (ES)</li> <li>. Nederlandse Technische Vereniging voor Installaties in Gebouwen TVVL (NL)</li> <li>. Ceska komora autorizovanych inzejru a techniku (CZ)</li> <li>. Zbornica za arhitekturo in prostor Slovenije (SL)</li> <li>. Consiglio Nazionale degli Architetti, Pianificatori, Paesaggisti e Conservatori (IT)</li> </ul>			
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<sup>13</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

<sup>14</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

Project's website	<a href="http://proftrac.eu/open-training-platform-for-nzeb-professionals.html">http://proftrac.eu/open-training-platform-for-nzeb-professionals.html</a>
Keywords	Skills, training, white-collar, energy-efficiency, nZEB
Duration	Start date: 2015/03/01 End date: 2018/02/28
Budget <sup>15</sup>	EUR 1,499,871.25 (EU contribution 100%)
Summary description	<p>PROF-TRAC has developed a skills mapping methodology (creating inventories of professionals, existing qualifications, available education programmes, accreditation and certification structures and so on) through which estimates of the number of professionals required can be made. One of the results is a implementation of the results in a mobile application that facilitates actors in the construction sector find a suitable training. PROF-TRAC has also resulted in an online database (<a href="http://proftrac.eu/training-materials.html">http://proftrac.eu/training-materials.html</a>) that lists and categorises training projects (e.g. according to target / involved groups, building phase).</p> <p>PROF-TRAC is building upon previous IEE projects (BuildUpSkills, IDES-EDU etc.) and is initiated by the largest European associations for the sector (REHVA, ACE, CECODHAS).</p>
<b>Context</b>	
Objectives <sup>16</sup>	<ol style="list-style-type: none"> <li>1. Mapping of the required skills and current skills gap of professionals in NZEB</li> <li>2. Development of an open training platform including methods for a systematic and sustainable access to knowledge</li> <li>3. Development and testing of a Train the Trainers programme for the developed curriculum and/or qualification scheme</li> <li>4. Development of a repository of the training material for use in education and post-initial education</li> </ol>
Target skills/ professions <sup>17</sup>	<ul style="list-style-type: none"> <li>• Architects</li> <li>• Engineers</li> <li>• Building managers</li> <li>• Other building professionals</li> </ul>

<sup>15</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

<sup>16</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)

<sup>17</sup> [http://cordis.europa.eu/project/rcn/194585\\_en.html](http://cordis.europa.eu/project/rcn/194585_en.html)