

## Project consortium

Leading actors within the Swedish building industry, are acting together, creating an education for energy efficient craftsmen in Sweden, through the project BUILD UP Skills SWEBUILD (Contract N°: IEE/13/BWI/708/SI2.680176).

The consortium includes organizations with leading expertise in life-long learning, as well as technical expertise on building and on energy efficiency and renewable energies in buildings.

**Coordinator** Energy Agencies of Sweden

**Partners** The Swedish Construction Federation, The Swedish Association of Plumbing and HVAC Contractors, The Association of Swedish Electrical Contractors, Technological Institute Sweden, SP Technical Research Institute of Sweden, WSP Sverige Passive House Centre, NCC AB



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For more information on the project  
» [energibyggare.se](http://energibyggare.se)

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# BUILD UP Skills SWEBUILD

EDUCATING ENERGY EFFICIENT  
CRAFTSMEN IN SWEDEN TO 2020



## Already in 2021, all new constructions are to be nearly zero-energy buildings

Buildings account for 30 percent of the energy use in Sweden. The energy consumption in buildings are targeted to be cut by half by the year 2050. Already in 2021, all new constructions are to be nearly zero-energy buildings and the energy use for major renovations are to be reduced. The entire industry needs to change into more energy efficient construction and to succeed more knowledge is needed, according to the Swedish Energy Agency.

## New energy demands require enhancing of skills

With the increasing energy demands for buildings, craftsmen need additional skills enhancement. Leading actors in the Swedish construction industry collaborate on elaborating a educational concept for energy efficient construction, called **Energy Builders** (Energibyggar).

*–Construction companies face increasingly more stringent requirements from their clients for buildings to be energy efficient. The more stringent requirements on the energy performance, the greater is the need to have a quality-assured building process at all stages. To invest in training of employees in energy efficient construction is an important part of this quality assurance.*

**Maria Brogren, Ph.D. Manager Energy and Environment, The Swedish Construction Federation**



## Educational concept

The project BUILD UP Skills SWEBUILD will lead to the design of a new training concept, a web based education, for the Swedish building industry, offered on-site. The education has a comprehensive approach to energy efficient building and training “just-in-time” with easily accessible instructions to use as needs arise.

The strategy is to train instructors who will then organize and supervise the onsite training of craftsmen and fitters.

The development of this concept will lead to freely accessible course curricula and training material

- for training of instructors
- for on-site training of craftsmen and fitters
- quality assessed with international benchmarking and feedback from trainees

The project consortium will organise up to 70 training occasions during the project time frame, training 500 instructors. It is a one day course and will be offered during 2016 and 2017 at different locations over all of Sweden.

## Training curriculum

The training for craftsmen and fitters is a four hour interactive, high quality web based education. After passing the training, the Energy Builder’s new knowledge is recorded in the ID06 related skills database.

The on-site training will include the following modules:

-  Introduction
-  The building as a system
-  Thermal insulation
-  Viscosity of air
-  Moisture
-  Renewable energy
-  Installations

As the training is based on modules, it is very flexible and can be realized after the workplaces conditions and “just in time” connected to the progress of the construction.

