



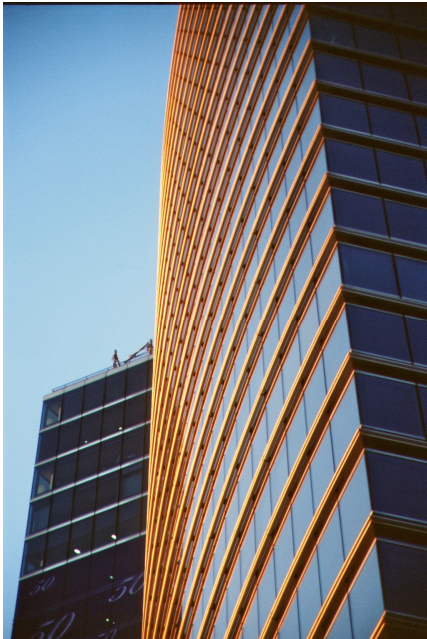
BUILD UP Skills

Energy training
for builders



An initiative to boost the energy skills
of Europe's building workforce





- Europe 2020 strategy
 - Agenda for new skills and jobs with the objective of equipping people with the right skills for employment
- Skills for green jobs
 - Developing a low-carbon economy depends on improving existing skills
- The European Qualification Framework
- European Social Fund and Lifelong Learning Programme



- European Council 2007: 20-20-20 energy and climate change objectives for 2020 (restated in Europe 2020 strategy in 2010)
- European Council 2009: reduction of 80-95% in GHG by 2050 compared to 1990 levels
- RES Directive 2009/28/EC: Minimum requirements for RES in buildings
- Recast EPBD 2010/31/EU: All new buildings in the EU by 31 December 2020 will have to be nearly zero energy buildings (public authorities two years earlier)
- Energy Efficiency Plan (2011)
- Future Energy Efficiency Directive (articles on Availability of qualification, accreditation and certification schemes and on information and training schemes)



Intelligent Energy Europe

- **Encourages the uptake of proven intelligent energy solutions / practices**
- Budget €730 million from 2007 to 2013
- Funding projects through annual calls for proposals
- Funding areas:
- Energy efficiency and rational use of energy (SAVE)
 - New and renewable resources (ALTENER)
 - Energy in transport (STEER)
 - Integrated initiatives



IEE projects supporting training and qualification

- **CEPH** (01/09/2008-28/02/2011): training course for Certified European Passive House Designer in 9 countries
- **TRAINENERGY** (01/10/2009-30/09/2011): improve the capacity of building professionals to offer intelligent energy solutions by training craftsmen in the construction sector in 6 countries
- **EDUCATE** (01/06/2009-31/05/2012): integration of sustainable environmental Design in University Curricula and Architectural Training
- **USE EFFICIENCY** (01/06/2009-30/01/2012): Universities from 10 countries work together to develop a common higher educational course for students that will develop careers in building sector
- **ENFORCE** (01/09/2009-31/08/2012): training courses for graduates in engineering and architecture, for the creation of a network of qualified experts on energy certification and audit in buildings
- **REE_TROFIT** (01/05/2010 - 30/04/2013): prepare and implement a European vocational training programme for energy efficiency and renewable energy solutions for the retrofitting of buildings
- **IDES-EDU** (03/06/2010-02/06/2013): Master and Post Graduate education & training in multidisciplinary teams implementing the EPBD



IEE projects supporting training and qualification

WINDSKILL (01/11/2006 - 31/10/2009): overcoming the barrier related to the lack of skilled staff in charge of installation and maintenance of wind energy systems

RES-COMPASS (01/10/2008 - 31/12/2010): guidance to students for the development of energy education in upper secondary higher education and training in the RES sector

PRODES (01/10/2008-30/09/2010): the action aims at introducing Renewable energy sources coupled to desalination into higher education system of relevant countries + e-learning

GEOTRAINET (01/09/2008 – 28/02/2011): training of designers and drillers of ground source heat pumps

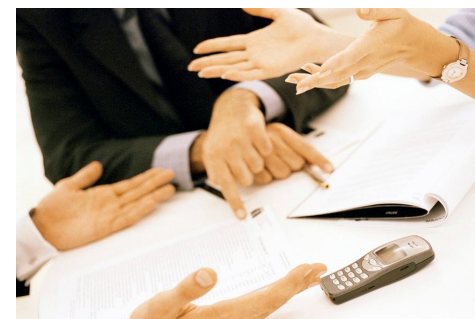
10ACTION (14/05/2010 - 14/11/2012): promotion of the Solar Decathlon Europe Competition, targeting, among others, students and building professionals

PVTRIN (01/05/2010 – 30/04/2013): training and certification of Photovoltaic installers in six European countries

Install+RES (01/05/2010 – 30/04/2013): training courses for installers of small-scale renewable energy systems (biomass, solar, PV and heat pumps) in buildings

BUILD UP Skills - Scope

- 3-years (2011-2013) funding initiative under the IEE programme



→Focus:

- Continuing education and training (i.e. after initial education and training or after they entered working life)
- Craftsmen and other on-site construction workers and system installers
- Energy efficiency and renewable energy sources in all types of buildings



BUILD UP Skills – Main elements

Pillar I

**National Qualification Platforms
and Roadmaps**
subject of Call 2011 and 2012



Pillar II

**Qualification and Training
Schemes**
subject of Call 2012 and 2013

**Targeted
European
Exchange
Activities**

**organised
by EACI**

BUILD UP Skills - Objectives



- **Initiate national discussion processes** that bring together all relevant stakeholders
- **Identify and quantify the need for a workforce** qualified in energy efficiency and renewable energy in each Member State by 2020 (and beyond)
- **Set up and agree national qualification roadmaps** to achieve the sustainable energy policy objectives for 2020
- **Support concrete qualification schemes** on the basis of roadmaps to 2020 with identified needs and priorities



Who needs to be trained?

→ **Tradesmen:** “bricklayer, carpenter, plumber, electrician, roofer, plasterer, glazier, concrete worker, steel worker, ...”

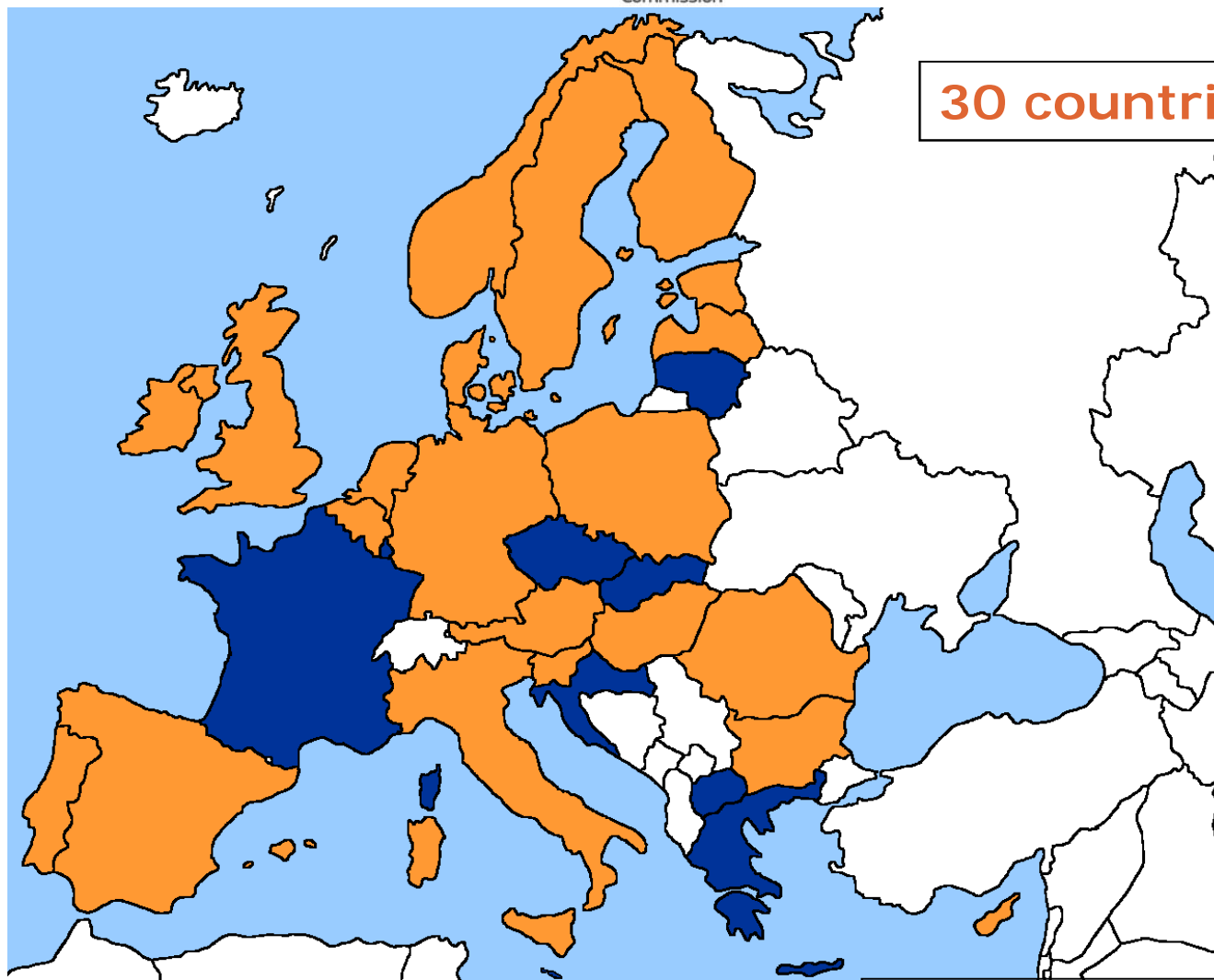
→ **Supervisors, who work on site** groundwork, walls, roof, windows, doors, chimneys, heating / cooling systems, air handling, lighting, other services, ...

→ **Renewable energy system installers** small-scale biomass boilers and stoves, solar photovoltaic and solar thermal systems, shallow geothermal systems, heat pumps

→ **Specialists** who select / size / check / inspect installations
gas boiler, oil boiler, solid fuel burner, under-floor heating,
radiators, air handling units, cooling / air conditioning plant



European
Commission



30 countries!

Call 2011 countries
Call 2012 countries



European exchange activities

- EU exchange activities for all BUILD UP Skills projects for:
 - Exchange of best practice between all projects
 - Addressing common issues in a European context (e.g. mutual recognition of qualification and training, cross-border movement of workers, etc)
- Facilitating the **aggregation of results at EU level and the feed into relevant EU policy processes**
- Increase the visibility of the actions as joint European initiative
- 4 EU sessions foreseen within the timeline of actions
- Organised by the EACI/EC

Thank You
Please visit
www.buildupskills.eu

 **BUILD UP SKILLS**
ENERGY TRAINING FOR BUILDERS 

Home | National projects | EU Activities | Calendar | BUILD UP Community | Library

Welcome to BUILD UP Skills



Contribute to national priority setting: a key achievement of BUILD UP Skills will be endorsed national roadmaps pinpointing to the most important changes and concrete measures needed in the continuous education system of the building sector.

[Read more](#)

Latest BUILD UP Skills activities



11-05-2012 | Greening of the building sector is held back by skill shortages. | EU Research brief by the International Labour Organization (ILO) on greening of the building sector and how Skills-led...

[View](#)



11-05-2012 | Skills and Occupational Needs in Green Building | EU Report by the International Labour Organization (ILO) on skills and occupational needs in green building.

[View](#)



11-05-2012 | Skill Needs on the Labour Market in Transition to the Low Carbon Economy | EU Report by the International Labour Organization (ILO) that includes a comparative analysis of methods of identification...

[View](#)

National Country Pages

National teams have been already formed in 30 European countries. In each country, key public and private players work together to improve the qualification and skills of building workers, which are essential to deliver high energy performance buildings. Click here to have information on the activities carried out in each of these countries.



BUILD UP Skills

Energy training
for builders



An initiative to boost the energy skills
of Europe's building workforce





- Europe 2020 strategy
 - Agenda for new skills and jobs with the objective of equipping people with the right skills for employment
- Skills for green jobs
 - Developing a low-carbon economy depends on improving existing skills
- The European Qualification Framework
- European Social Fund and Lifelong Learning Programme



- European Council 2007: 20-20-20 energy and climate change objectives for 2020 (restated in Europe 2020 strategy in 2010)
- European Council 2009: reduction of 80-95% in GHG by 2050 compared to 1990 levels
- RES Directive 2009/28/EC: Minimum requirements for RES in buildings
- Recast EPBD 2010/31/EU: All new buildings in the EU by 31 December 2020 will have to be nearly zero energy buildings (public authorities two years earlier)
- Energy Efficiency Plan (2011)
- Future Energy Efficiency Directive (articles on Availability of qualification, accreditation and certification schemes and on information and training schemes)



Intelligent Energy Europe

- **Encourages the uptake of proven intelligent energy solutions / practices**

→ Budget €730 million from 2007 to 2013

→ Funding projects through annual calls for proposals

→ Funding areas:

- Energy efficiency and rational use of energy (SAVE)
- New and renewable resources (ALTENER)
- Energy in transport (STEER)
- Integrated initiatives



IEE projects supporting training and qualification

- **CEPH** (01/09/2008-28/02/2011): training course for Certified European Passive House Designer in 9 countries
- **TRAINENERGY** (01/10/2009-30/09/2011): improve the capacity of building professionals to offer intelligent energy solutions by training craftsmen in the construction sector in 6 countries
- **EDUCATE** (01/06/2009-31/05/2012): integration of sustainable environmental Design in University Curricula and Architectural Training
- **USE EFFICIENCY** (01/06/2009-30/01/2012): Universities from 10 countries work together to develop a common higher educational course for students that will develop careers in building sector
- **ENFORCE** (01/09/2009-31/08/2012): training courses for graduates in engineering and architecture, for the creation of a network of qualified experts on energy certification and audit in buildings
- **REE_TROFIT** (01/05/2010 - 30/04/2013): prepare and implement a European vocational training programme for energy efficiency and renewable energy solutions for the retrofitting of buildings
- **IDES-EDU** (03/06/2010-02/06/2013): Master and Post Graduate education & training in multidisciplinary teams implementing the EPBD



IEE projects supporting training and qualification

WINDSKILL (01/11/2006 - 31/10/2009): overcoming the barrier related to the lack of skilled staff in charge of installation and maintenance of wind energy systems

RES-COMPASS (01/10/2008 - 31/12/2010): guidance to students for the development of energy education in upper secondary higher education and training in the RES sector

PRODES (01/10/2008-30/09/2010): the action aims at introducing Renewable energy sources coupled to desalination into higher education system of relevant countries + e-learning

GEOTRAINET (01/09/2008 – 28/02/2011): training of designers and drillers of ground source heat pumps

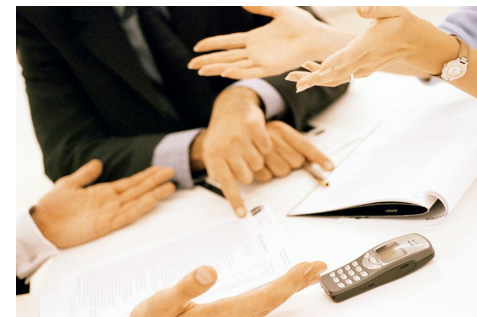
10ACTION (14/05/2010 - 14/11/2012): promotion of the Solar Decathlon Europe Competition, targeting, among others, students and building professionals

PVTRIN (01/05/2010 – 30/04/2013): training and certification of Photovoltaic installers in six European countries

Install+RES (01/05/2010 – 30/04/2013): training courses for installers of small-scale renewable energy systems (biomass, solar, PV and heat pumps) in buildings

BUILD UP Skills - Scope

- 3-years (2011-2013) funding initiative under the IEE programme



→Focus:

- Continuing education and training (i.e. after initial education and training or after they entered working life)
- Craftsmen and other on-site construction workers and system installers
- Energy efficiency and renewable energy sources in all types of buildings



BUILD UP Skills – Main elements

Pillar I

**National Qualification Platforms
and Roadmaps**
subject of Call 2011 and 2012



Pillar II

**Qualification and Training
Schemes**
subject of Call 2012 and 2013

**Targeted
European
Exchange
Activities**

**organised
by EACI**

BUILD UP Skills - Objectives



- **Initiate national discussion processes** that bring together all relevant stakeholders
- **Identify and quantify the need for a workforce** qualified in energy efficiency and renewable energy in each Member State by 2020 (and beyond)
- **Set up and agree national qualification roadmaps** to achieve the sustainable energy policy objectives for 2020
- **Support concrete qualification schemes** on the basis of roadmaps to 2020 with identified needs and priorities



Who needs to be trained?

→ **Tradesmen:** “bricklayer, carpenter, plumber, electrician, roofer, plasterer, glazier, concrete worker, steel worker, ...”

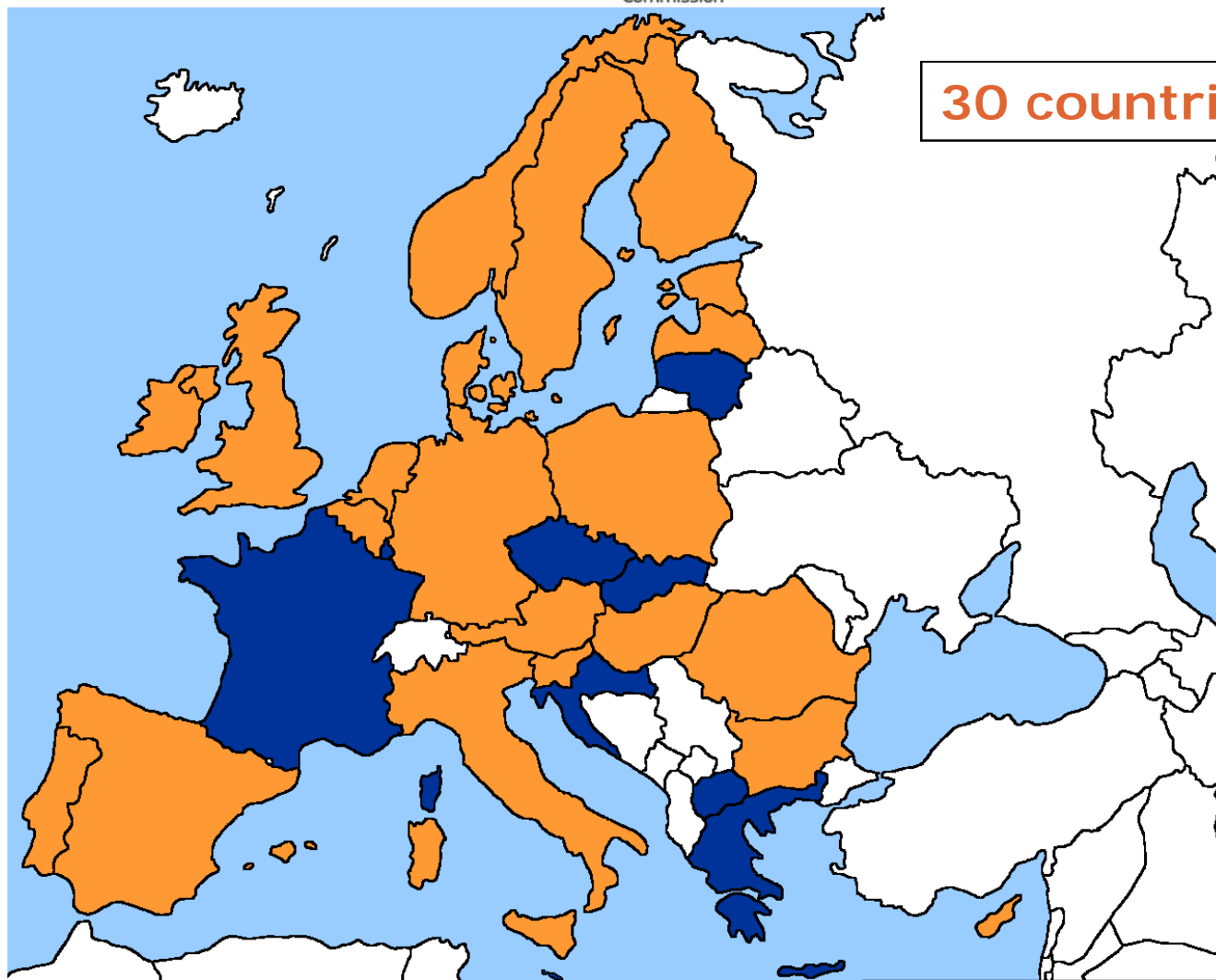
→ **Supervisors, who work on site** groundwork, walls, roof, windows, doors, chimneys, heating / cooling systems, air handling, lighting, other services, ...

→ **Renewable energy system installers** small-scale biomass boilers and stoves, solar photovoltaic and solar thermal systems, shallow geothermal systems, heat pumps

→ **Specialists** who select / size / check / inspect installations
gas boiler, oil boiler, solid fuel burner, under-floor heating,
radiators, air handling units, cooling / air conditioning plant



European
Commission



30 countries!



Call 2011 countries
Call 2012 countries



European exchange activities

- EU exchange activities for all BUILD UP Skills projects for:
 - Exchange of best practice between all projects
 - Addressing common issues in a European context (e.g. mutual recognition of qualification and training, cross-border movement of workers, etc)
- Facilitating the **aggregation of results at EU level and the feed into relevant EU policy processes**
- Increase the visibility of the actions as joint European initiative
- 4 EU sessions foreseen within the timeline of actions
- Organised by the EACI/EC

Thank You
Please visit
www.buildupskills.eu

 **BUILD UP SKILLS**
ENERGY TRAINING FOR BUILDERS 

Home | National projects | EU Activities | Calendar | BUILD UP Community | Library

Welcome to BUILD UP Skills



Contribute to national priority setting: a key achievement of BUILD UP Skills will be endorsed national roadmaps pinpointing to the most important changes and concrete measures needed in the continuous education system of the building sector.

[Read more](#)

Latest BUILD UP Skills activities



11-05-2012 | Greening of the building sector is held back by skill shortages. | EU Research brief by the International Labour Organization (ILO) on greening of the building sector and how Skills-led...

[View](#)



11-05-2012 | Skills and Occupational Needs in Green Building | EU Report by the International Labour Organization (ILO) on skills and occupational needs in green building.

[View](#)



11-05-2012 | Skill Needs on the Labour Market in Transition to the Low Carbon Economy | EU Report by the International Labour Organization (ILO) that includes a comparative analysis of methods of identification...

[View](#)

National Country Pages

National teams have been already formed in 30 European countries. In each country, key public and private players work together to improve the qualification and skills of building workers, which are essential to deliver high energy performance buildings. Click here to have information on the activities carried out in each of these countries.



BUILD UP Skills

Energy training
for builders



An initiative to boost the energy skills
of Europe's building workforce





- Europe 2020 strategy
 - Agenda for new skills and jobs with the objective of equipping people with the right skills for employment
- Skills for green jobs
 - Developing a low-carbon economy depends on improving existing skills
- The European Qualification Framework
- European Social Fund and Lifelong Learning Programme



- European Council 2007: 20-20-20 energy and climate change objectives for 2020 (restated in Europe 2020 strategy in 2010)
- European Council 2009: reduction of 80-95% in GHG by 2050 compared to 1990 levels
- RES Directive 2009/28/EC: Minimum requirements for RES in buildings
- Recast EPBD 2010/31/EU: All new buildings in the EU by 31 December 2020 will have to be nearly zero energy buildings (public authorities two years earlier)
- Energy Efficiency Plan (2011)
- Future Energy Efficiency Directive (articles on Availability of qualification, accreditation and certification schemes and on information and training schemes)



Intelligent Energy Europe

- **Encourages the uptake of proven intelligent energy solutions / practices**
- Budget €730 million from 2007 to 2013
- Funding projects through annual calls for proposals
- Funding areas:
- Energy efficiency and rational use of energy (SAVE)
 - New and renewable resources (ALTENER)
 - Energy in transport (STEER)
 - Integrated initiatives



IEE projects supporting training and qualification

- **CEPH** (01/09/2008-28/02/2011): training course for Certified European Passive House Designer in 9 countries
- **TRAINENERGY** (01/10/2009-30/09/2011): improve the capacity of building professionals to offer intelligent energy solutions by training craftsmen in the construction sector in 6 countries
- **EDUCATE** (01/06/2009-31/05/2012): integration of sustainable environmental Design in University Curricula and Architectural Training
- **USE EFFICIENCY** (01/06/2009-30/01/2012): Universities from 10 countries work together to develop a common higher educational course for students that will develop careers in building sector
- **ENFORCE** (01/09/2009-31/08/2012): training courses for graduates in engineering and architecture, for the creation of a network of qualified experts on energy certification and audit in buildings
- **REE_TROFIT** (01/05/2010 - 30/04/2013): prepare and implement a European vocational training programme for energy efficiency and renewable energy solutions for the retrofitting of buildings
- **IDES-EDU** (03/06/2010-02/06/2013): Master and Post Graduate education & training in multidisciplinary teams implementing the EPBD



IEE projects supporting training and qualification

WINDSKILL (01/11/2006 - 31/10/2009): overcoming the barrier related to the lack of skilled staff in charge of installation and maintenance of wind energy systems

RES-COMPASS (01/10/2008 - 31/12/2010): guidance to students for the development of energy education in upper secondary higher education and training in the RES sector

PRODES (01/10/2008-30/09/2010): the action aims at introducing Renewable energy sources coupled to desalination into higher education system of relevant countries + e-learning

GEOTRAINET (01/09/2008 – 28/02/2011): training of designers and drillers of ground source heat pumps

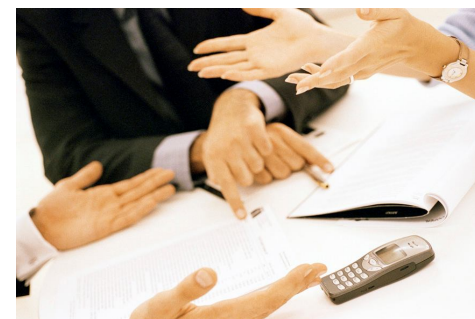
10ACTION (14/05/2010 - 14/11/2012): promotion of the Solar Decathlon Europe Competition, targeting, among others, students and building professionals

PVTRIN (01/05/2010 – 30/04/2013): training and certification of Photovoltaic installers in six European countries

Install+RES (01/05/2010 – 30/04/2013): training courses for installers of small-scale renewable energy systems (biomass, solar, PV and heat pumps) in buildings

BUILD UP Skills - Scope

- 3-years (2011-2013) funding initiative under the IEE programme



→Focus:

- Continuing education and training (i.e. after initial education and training or after they entered working life)
- Craftsmen and other on-site construction workers and system installers
- Energy efficiency and renewable energy sources in all types of buildings



BUILD UP Skills – Main elements

Pillar I

**National Qualification Platforms
and Roadmaps**
subject of Call 2011 and 2012



Pillar II

**Qualification and Training
Schemes**
subject of Call 2012 and 2013

**Targeted
European
Exchange
Activities**

**organised
by EACI**

BUILD UP Skills - Objectives



- **Initiate national discussion processes** that bring together all relevant stakeholders
- **Identify and quantify the need for a workforce** qualified in energy efficiency and renewable energy in each Member State by 2020 (and beyond)
- **Set up and agree national qualification roadmaps** to achieve the sustainable energy policy objectives for 2020
- **Support concrete qualification schemes** on the basis of roadmaps to 2020 with identified needs and priorities



Who needs to be trained?

→ **Tradesmen:** “bricklayer, carpenter, plumber, electrician, roofer, plasterer, glazier, concrete worker, steel worker, ...”

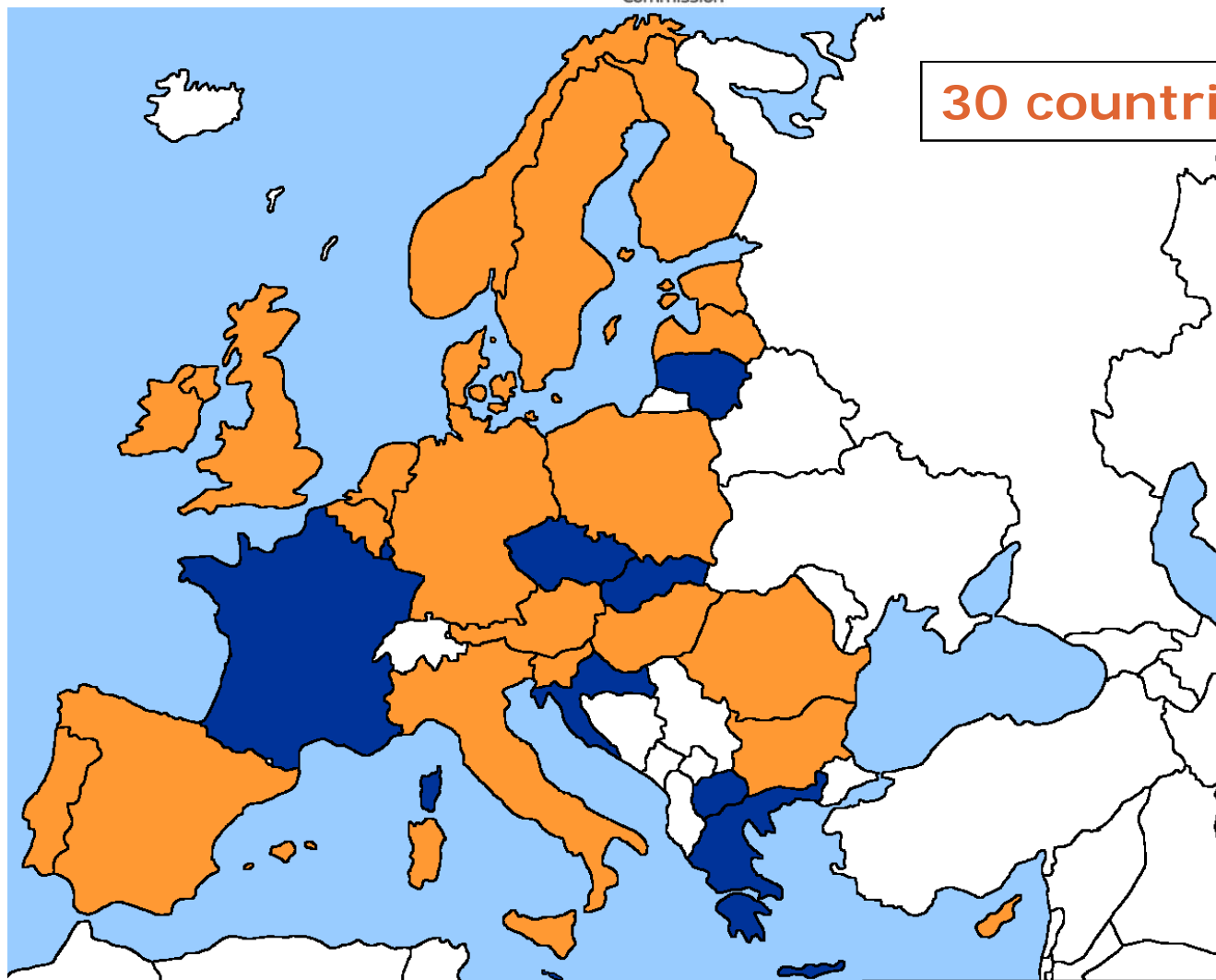
→ **Supervisors, who work on site** groundwork, walls, roof, windows, doors, chimneys, heating / cooling systems, air handling, lighting, other services, ...

→ **Renewable energy system installers** small-scale biomass boilers and stoves, solar photovoltaic and solar thermal systems, shallow geothermal systems, heat pumps

→ **Specialists** who select / size / check / inspect installations
gas boiler, oil boiler, solid fuel burner, under-floor heating,
radiators, air handling units, cooling / air conditioning plant



European
Commission



30 countries!

Call 2011 countries
Call 2012 countries



European exchange activities

- EU exchange activities for all BUILD UP Skills projects for:
 - Exchange of best practice between all projects
 - Addressing common issues in a European context (e.g. mutual recognition of qualification and training, cross-border movement of workers, etc)
- Facilitating the **aggregation of results at EU level and the feed into relevant EU policy processes**
- Increase the visibility of the actions as joint European initiative
- 4 EU sessions foreseen within the timeline of actions
- Organised by the EACI/EC

Thank You
Please visit
www.buildupskills.eu

 **BUILD UP SKILLS**
ENERGY TRAINING FOR BUILDERS 

Home | National projects | EU Activities | Calendar | BUILD UP Community | Library

Welcome to BUILD UP Skills



Contribute to national priority setting: a key achievement of BUILD UP Skills will be endorsed national roadmaps pinpointing to the most important changes and concrete measures needed in the continuous education system of the building sector.

[Read more](#)

Latest BUILD UP Skills activities



11-05-2012 | Greening of the building sector is held back by skill shortages. | EU Research brief by the International Labour Organization (ILO) on greening of the building sector and how Skills-led...

[View](#)



11-05-2012 | Skills and Occupational Needs in Green Building | EU Report by the International Labour Organization (ILO) on skills and occupational needs in green building.

[View](#)



11-05-2012 | Skill Needs on the Labour Market in Transition to the Low Carbon Economy | EU Report by the International Labour Organization (ILO) that includes a comparative analysis of methods of identification...

[View](#)

National Country Pages

National teams have been already formed in 30 European countries. In each country, key public and private players work together to improve the qualification and skills of building workers, which are essential to deliver high energy performance buildings. Click here to have information on the activities carried out in each of these countries.