



European Project Install+RES

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WIP Renewable Energies

Strategic Workshop
Training and qualification of small-scale RES installers in Europe
Brussels, Belgium, 12th March 2013



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**The Install+RES approach provides
qualified professionals in the RES
sector.**



Source: PV Employment project, www.pvemployment.org

Consortium

May 2010 – April 2013

WIP - Renewable Energies
Germany



BS EAG
Vocational School for
Electricians and Electronics
Installers - City of Munich



Landeshauptstadt
München
Referat für Bildung
und Sport

ALP
Academy for Teacher In-
Service Training and Staff
Development
Germany



AIE
European Association of
Electrical Contractors



FIEC
European Construction
Industry Federation



VHSE
Vocational High School of
Electronics "John
Atanasov"
Bulgaria



CRES
Centre for Renewable
Energy Sources and Saving
Greece



SCV
School Centre Velenje
Slovenia



PK
Cracow University of
Technology
Poland



ASSISTAL
Italian National Association
of Plant Builders
Italy



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Objective of the Install+RES

Establishment of training courses for the
and installers of small-scale renewable energy
systems in buildings in

Germany
Poland
Italy
Slovenia
Bulgaria
Greece

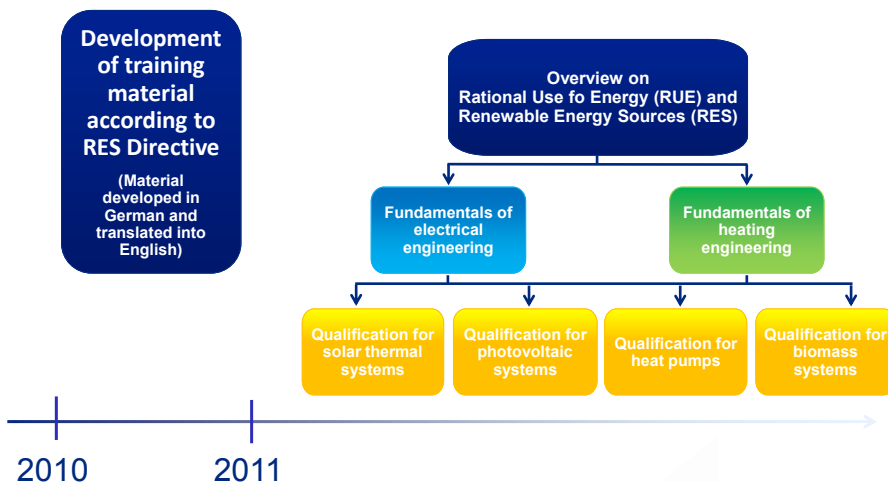


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Project Overview



Structure of the Install+RES courses



Information

Worksheets

Solutions to the
worksheets



Development
of training
material
according to
RES Directive

Train the
trainers
courses



Theory

+



Hands on learning

=

78 qualified trainers



The Install+RES training courses



Tandem approach

Multiplier effect

**"Install+RES"
courses**

2 trainers

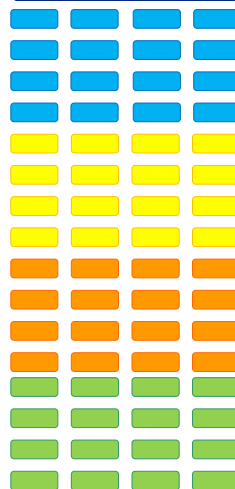
16 installers

PV

Solar
thermal

Heat
pump

Biomass



The Install+RES training courses



Hands on learning



Development of training material according to RES Directive

Adaptation and translation of training material



Train the trainers courses

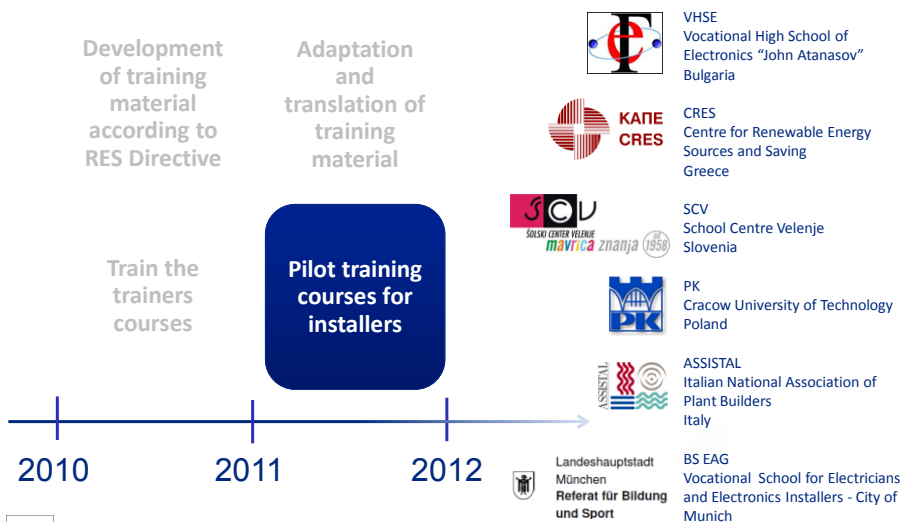
Localization of the training content referring the individual needs and the specific situations in all countries / locations



Localization of the training content

	PV	Solar Thermal	Heat Pumps	Biomass
PK (Polish)	✓	✓	✓	✓
VHSE (Bulgarian)	✓	✓	✓	✓
SCV (Slovenian)	✓	✓	✓	✓
BS EAG (German)	✓	✓	✓	
ASSISTAL (Italian)	✓		✓	
CRES (Greek)	✓			

Install+RES training providers



Development
of training
material
according to
RES Directive

Train the
trainers
courses

Adaptation
and
translation of
training
material

Pilot training
courses for
installers

2 training
courses for
installers in
Poland, Italy,
Slovenia,
Bulgaria,
Germany and
Greece



2010

2011

2012

2013

Overview on
Rational Use of Energy (RUE) and
Renewable Energy Sources (RES)

Fundamentals of
electrical
engineering

Fundamentals of
heating
engineering

Qualification for
solar thermal
systems

Qualification for
photovoltaic
systems

Qualification for
heat pumps

Qualification for
biomass
systems

Exam

Certificate of Small Scale Renewable Energy Systems* Installer

Certificate of
Solar Thermal
Systems
Installer

Certificate of
Photovoltaics
Systems
Installer

Certificate of
Heat Pumps
Systems
Installer

Certificate of
Biomass
Systems
Installer

Install+RES Facts and Figures

78 trainers trained during English and German “train for trainers” courses

18 training courses established in Italy, Bulgaria, Slovenia, Greece, Poland and Germany

268 certified installers in Italy, Bulgaria, Slovenia, Greece, Poland and Germany

Results beyond the project

- It can be estimated that after the project lifetime, the training courses further implemented could certify at least 2000 installers from 2013 to 2020
- Accelerate the deployment of RE systems (solar thermal, PV, biomass and heat pumps) in buildings
- Give a strong contribution to reach the 20-20-20 targets
- Contribute to the objectives of the Build Up Skills initiative



Thank you for Your Attention

<http://www.resinstaller.eu/>



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Back up slides



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Install+RES installers

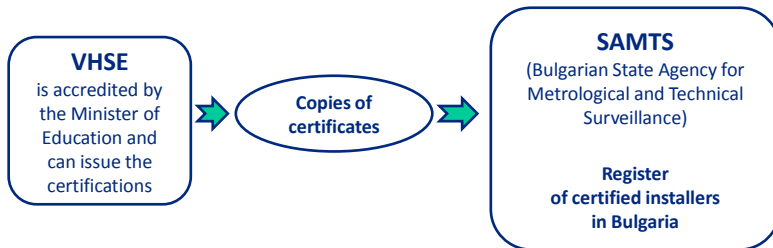
Poland	49 installers (HP, BM, PV, ST)
Greece	42 installers (PV)
Slovenia	31 installers (HP, BM, PV, ST)
Germany	13 installers (advanced module in PV)
Bulgaria	77 installers (HP, BM, PV, ST)
Italy	56 installers (PV, HP)

Total **268** installers

List of accreditation bodies identified in each country

Poland	Slovenia	Bulgaria	Greece	Italy
<ul style="list-style-type: none"> • Office of Technical Inspection (UDT) 	<ul style="list-style-type: none"> • National Institute for Vocational Education and Training • Chamber of Commerce and Industry 	<ul style="list-style-type: none"> • VHSE • National Agency for vocational education and training 	<ul style="list-style-type: none"> • No accreditation body assigned at the time 	<ul style="list-style-type: none"> • No accreditation body assigned at the time

Bulgarian case identified as BEST PRACTICE



The participants of the Install+RES courses at the VHSE are the first certified installers of PV technologies who have entered in the register of the SAMTS

This control mechanism will secure that all future PV installations are installed by qualified installers.

This incentivizes the future participation of installers in the training courses and subsequently the long term sustainability of the Install+RES concept.



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LEGISLATIVE FRAMEWORK

- In line with the RES Directive (article 14):
'Member States shall ensure that certification schemes or equivalent qualification schemes become or are available by 31 December 2012 for installers of small-scale biomass boilers and stoves, solar photovoltaic and solar thermal systems, shallow geothermal systems and heat pumps.'
- Give a strong contribution to reach the 20-20-20 targets
- Roadmap 2050



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