



## **BUDGET HEADING 04.04.01.01**

*Mutual learning in the field of skills and employment,  
EU Sector Skills Councils, Restructuring*

Title: GSSkills - Geothermal and Solar skills  
WP3 – CASE STUDIES



**EUROPEAN COMMISSION**  
*Employment, Social Affairs & Inclusion DG  
Europe 2020: Employment Policies  
New Skills for New Jobs, Adaptation to Change, CSR, EGF*





# Methodology

- Starting point: ***Debarrena Energy Strategy*** :  
Identify 50 stakeholders in our area.  
Identify 25 stakeholders are companies.
- GISSkills- We ***complete the list*** including another types of institutions have contact with 30 stakeholders.  
Specific topic: Geothermal, solar  
Another territorial scale  
Mix of organisations, companies, agencies, institutions
- Process. ***Good practices***  
Analyse the practices.  
Choose the practices  
Meeting or contact with the participants  
Agree with on the content

# Methodology

NAME OF THE GOOD PRACTICE	TYPE OF GOOD PRACTICE	COMPANY- PROMOTER
Climasol	Solar	Ente Vasco de la Eneía (Basque Energy Board)
Solair	Solar	Ente Vasco de la Eneía (Basque Energy Board)
Thermal Instalations Installer and Maintainer License Course	Solar	Instagi
ONLINE training for professionals in "solar photovoltaic installations" and "Development of solar photovoltaic projects."	Solar	Alecop
UF0150 Layout and operation of solar photovoltaic instalations	Solar	IEFPS San Jorge
IMAI0108-Plumbing and heating-cooling domestic operations	Solar	Lea Artibai Ikastetxea
The 3 Pillars of Energy Efficiency	Geothermal	Ingurubide
II Specialist shallow geothermal applied to the building course online	Geothermal	ICOG (Official Association of Geologists)
Solar thermic instalations organization and projects.	Solar	IES REPELEGA PORTUGALETE
UniKrannich training courses	Solar	Krannich Solar
Introduction to Solar photovoltaic energy Course	Solar	Universidad Politécnica de Valencia

# ALECOP S.Coop

- It is a company that for over 40 years has been developing solutions for technology training.
- It is based in Mondragon (Spain).
- It is an engineering company training based in the needs of their customers.
- Formative Solutions Mondragon (SFM) is the brand name line of business oriented to design, development and implementation of technology training solutions.
- SFM acts in the form of e-learning.





# ALECOP S.Coop

- NAME of the GOOD PRACTICE → ONLINE training for professionals in "solar photovoltaic installations" and "Development of solar photovoltaic projects."
- Aimed to → Professionals having expertise in project development of electrical and/or the installation and maintenance of photovoltaic solar installations.
- Training takes place in online mode tutored.
- Modules of the training:
  1. Autonomous ESFV facilities in DC.
  2. ESFV facilities network connection.
  3. Projects.

# ALECOP S.Coop

- They will acquire the knowledge, skills and attitudes related to:
  - ✓ Determining the feasibility of photovoltaic projects.
  - ✓ Development of photovoltaic projects.
  - ✓ Organization of the installation of photovoltaic systems.
  - ✓ Organization of the maintenance of photovoltaic systems.



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## Formación en tecnologías avanzadas:

Energías Renovables  
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Telecomunicaciones  
...



# IEFPS San Jorge

- It began the training tasks during 1978-79 being the initial mechanical and electrical.
- In the academic year 1998-99 obtain the qualification of specific institute of higher vocational education (IEFPS).
- Today it is part of the comprehensive network of training centres in the Basque Country.
- IEFPS San Jorge is located in Santurce.





# IEFPS San Jorge

- NAME of the GOOD PRACTICE → UF0150 Layout and operation of solar photovoltaic.
- Aimed to → Professionals having expertise in installation and maintenance of plumbing and water networks were interested in updating their skills.
- Organized by Lanbide, Basque employment service and taught by IEFPS San Jorge
- Participants will develop their professional activity dedicated to conducting all activities of photovoltaic solar installations for electricity production.



# IEFPS San Jorge

- Professional achievements:
  1. Stakeout photovoltaic panels from a design of technical report to refitting.
  2. Stakeout solar photovoltaic grid-connected from a design or technical report to refitting.
  3. Stakeout solar photovoltaic isolated from a design or technical report in order to make assembly.
  4. Rethinking energy support system in isolated facilities from a design or technical report.



# INSTAGI

- It is an association of installation and maintenance companies from Guipuzcoa.
- The generic purpose of the association is to defend the interest of the professionals.
- Instagi is involved in the training of its partners.
- Instagi is based in San Sebastian.



GIPUZKOAKO INSTALATZAILE ETA  
MANTENTZAILEEN ENPRESEN ELKARTEA  
ASOCIACIÓN EMPRESARIAL DE INSTALADORES  
Y MANTENEDORES DE GIPUZKOA



# INSTAGI

- NAME of the GOOD PRACTICE → Thermal installations installer and maintainer course license.
- Aimed to → Professionals, having or no having knowledge of installation and/or maintenance of heating systems
- Knowledge required for the design and dimensioning of the solar system is worked for the contribution of a percentage of the needs of domestic hot water.
- Modules of the training:
  1. Components of a solar installation.
  2. Configuring solar installations.
  3. Dimensioning of solar installations.
  4. Inspection and maintenance of solar installations.

# INSTAGI

- The achievement are the following ones:
  - ✓ Participants are able to design, measure and/or evaluate whether a facility is well planned and executed.
  - ✓ Participants are able to assess the status of the installation as a function of the lifetime.
  - ✓ Business opportunities are extended.





# INGURUBIDE

- It is a centre for effective rehabilitation and sustainable methods.
- It is a private company but with the participation of private and public organization.
- Over 50 companies, clusters and public administrations are involved.
- It is located in Bilbao.





# INGURUBIDE

- NAME of the GOOD PRACTICE → The 3 Pillars of Energy Efficiency.
- Aimed to → Professionals in the construction and rehabilitation area.
- These seminars / conferences are held with companies that are and are not part of the centre. These companies are given a great opportunity to introduce its new products to different professionals.
- The format of the conference:
  1. 1 or 2 companies are invited each day.
  2. The exposition is an hour and a half.
  3. Always Thursdays at 9.30am.

# INGURUBIDE

- The achievement are the following ones:
  - ✓ Exchange contact to achieve new customers
  - ✓ Create a network of professionals



# EVE

- Basque Energy Entity (EVE) is the energy agency of the Basque Country.
- It is headquartered in Bilbao.
- It has the following mission:
  - ✓ Propose energy strategies of the Basque Country under the criteria of security of supply, cost competitiveness and sustainability.
  - ✓ Participate in the development and contribute to achieving the objectives defined therein.



**EVE** | **Ente Vasco  
de la Energía**



- NAME of the GOOD PRACTICE → Solair.
- It is an European project where participate organization from all over Europe.
- Solar cooling is a highly intelligent technology because the demand and supply of energy coincide.
- The aim of Solair was to promote and strengthen the use of solar air conditioning systems.
- Solair has addressed three important market actuator groups
  - ✓ Suppliers: engineers, plant designers, manufacturers, installers and technicians.
  - ✓ Investors: Owners of residential and commercial buildings.
  - ✓ Promoters: Energy Agencies, thematic networks, policy makers, associations, NGOs.



# EVE

- This project has achieved:
  - ✓ Promote the implementation of market solar air conditioning appliances in SMEs.
  - ✓ Focus on the residential and commercial sector combining supply hot water and heating, air conditioning.
  - ✓ Resolve major market barriers.
  - ✓ Develop a set of measures relevant to key market actuators.
  - ✓ Create a set of tools to help the growth of the relevant market.
  - ✓ Disseminate activities nationally and throughout Europe.



Thank you very much!