

## Renewable Energy for Future Generations

2011-1-SK1-LEO05-02879

<http://www.adam-europe.eu/adam/project/view.htm?prj=9744>

## Project Information

Title: Renewable Energy for Future Generations  
 Project Number: 2011-1-SK1-LEO05-02879  
 Year: 2011  
 Project Type: Transfer of Innovation  
 Status: granted  
 Country: SK-Slovakia  
 Marketing Text: EkoFond has initiated a programme for secondary schools to educate students in a new study programme "technician for energy facilities in buildings" (TEFB) which has to fill the gap at the labour market for this type of experts. The project REFUGE is a part of this big project. As a set of new occupations related to renewable energies promotion and production are emerging throughout Europe, there is a need to adapt young generation to this new situation. Project REFUGE project has identified and analysed these new occupations in order to produce job profiles/ standards and develop training curricula for counsellors/ advisors and teachers of VET in energy sector.  
 REFUGE project builds on the results of the European project EARTHCARE from where the innovation was transferred.

Summary: Topic of renewable energy is for various reasons - environmental and economic - of major interest and importance to EU countries. In Slovakia, as well as CZ, the sector of energy is a "green field". Therefore EkoFond has initiated a programme for secondary schools to educate students in a new study programme "technician for energy facilities in buildings" (TEFB) accredited by the SR Ministry of Education, which fills in the gap at the labour market for this type of experts. Its students have access not only to the latest information in the area of power engineering and renewable sources of energy, but also have modernised workshops with innovative technologies at their disposal. The project REFUGE is a part of this big project.  
 A set of new occupations related to renewable energies promotion and production are emerging throughout Europe. REFUGE project identified and analysed these new occupations and produced job profiles/ standards and developed training curricula for counsellors/ advisors and teachers of VET in energy sector. This is missing in SR and CZ. Ministry of Labour, Social Affairs and Family SR has a national task to develop a catalogue of all occupations, at present it started with occupations for wood processing and musical instruments production and plans to develop for all occupations. ŠIOV (our partner P6) is involved in this task and the handbook developed in the framework of the REFUGE project could be used for this catalogue.  
 REFUGE project builds on the results of the European project EARTHCARE from where the innovation is transferred - [www.idec.gr/earthcare/home.htm](http://www.idec.gr/earthcare/home.htm) - handbook for career advisers/counsellors and job profiles in renewable energy, training curricula. Project REFUGE integrates the above two previous products in a complete support package for vocational counsellors, advisors and teachers that can be trained to guide young people in the new occupational field of renewable energy, and completes it with development of new text books on RES.

Description: Objectives of the project are:  
 a: to improve skills and competencies of people, especially young people, in initial vocational training at all levels, with a view to facilitating their integration into the labour market.  
 The proposed project developed job profiles/standards for new occupations related to renewable energy. It provides occupational counsellors and advisors with a set of tools and training in order to be able to inform young people about the job opportunities, requirements and VET provision on these topics, facilitating thus their integration into the labour market. Young people whom the counsellors will address, may be at all levels of initial VET as there is a variety of jobs, related to renewable energies.  
 Objective  
 b: to promote and reinforce the contribution of vocational training to the process of

## Project Information

innovation, with a view

to improving competitiveness and entrepreneurship, also in view of new employment possibilities.

REFUGE by defining job profiles and standards and by developing tools, training curricula for counsellors and new text books on RE contributed positively to the enhancement of new employment possibilities in the renewable energy sector.

Aims of the project also were:

- improve European dimension of the guidance in the specific field of new renewable energy related occupations-

- improve career information on these occupations-

- improve education of students in renewable energy via development of text books

- fill in the gap at the labour market via education of students in the new study programme

TEFB

- contribute to the development of the energy and mainly renewable energy sector

The project results (handbook with job profiles, training of career advisers/counsellor and teachers, new text books in RE) help to educate students in such study programme which is unique in SR and CZ and its graduates fulfill the gap at the labour markets in this type of experts and services. All project results are incorporated into the educational system of the involved schools and countries.

- Themes:
- \* Sustainability
    - \* Higher education
    - \* Vocational guidance
    - \* Ecology
    - \* Continuous training

- Sectors:
- \* Construction
    - \* Electricity, Gas, Steam and Air Conditioning Supply

Product Types: description of new occupation profiles  
 program or curricula  
 teaching material  
 website  
 Film  
 others

Product information: Handbook:  
 Topic of energy is in SK and CZ "a green field", not many activities have been developed so far. The Handbook on occupations in RES for career advisors and occupation counsellors with list of job profiles for the renewable energy sector and related occupations did not exist in Slovakia and CZ and is highly required. In the Earthcare project it was prepared analysing 15 EU countries where SK and CZ were missing. ŠIOV, our partner P6, provides it to the Ministry of Labour, Social Affairs and Family SR for inclusion into the catalogue of occupations which has the Ministry started to produce in the framework of its national task. This was the main reason why that result and innovation have been chosen for transfer.

Training curricula:  
 Training curricula for career advisors and occupation counsellors in the renewable energy sector were also missing in SK and CZ as this sector is a relatively new one. All of this was completed by development of 2 text books on RE for VET schools.

All project results were also incorporated into the education system of each school (partner P2, P3, P4 and P5) of this project.

Career advisors training:  
 training curricula and support package for educational counsellors and advisors and teachers in the field of renewable energy and renewable energy occupations were developed.

Development of text books:  
 2 text books on renewable energy and another 3 textbooks for the experimental new study programme "technician for energy facilities in buildings"- Energy Sources, Energy Services and Counselling, , Electrotechnical equipment for the 2nd grade, Electrotechnical Equipment for the 3rd grade, Economy were developed.

## Project Contractor

Name: EkoFond, non-investment fund  
City: Bratislava  
Country/Region: Západné Slovensko  
Country: SK-Slovakia  
Organization Type: association/non-governmental organisation  
Homepage: <http://www.ekofond.sk>

## Contact Person

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## Coordinator

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Country: SK-Slovakia  
Organization Type: association/non-governmental organisation  
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Homepage:

## Partner

### Partner 1

Name: IDEC  
City: Pireaus  
Country/Region: Attiki  
Country: EL-Greece  
Organization Type: others  
Homepage: <http://www.idec.gr>

### Partner 2

Name: Secondary technical vocational school  
City: Prešov  
Country/Region: Východné Slovensko  
Country: SK-Slovakia  
Organization Type: initial training  
Homepage: <http://www.sost-po.sk>

### Partner 3

Name: Integrated secondary school  
City: Sokolnice  
Country/Region: Stredni Morava  
Country: CZ-Czech Republic  
Organization Type: initial training  
Homepage: <http://www.iss-sokolnice.cz>

### Partner 4

Name: Secondary electrotechnical school in Trnava  
City: Trnava  
Country/Region: Západné Slovensko  
Country: SK-Slovakia  
Organization Type: initial training  
Homepage: <http://www.sose-trnava@gmail.com>

## Partner

### Partner 5

Name: Joint school Kremnika BB  
City: Banská Bystrica  
Country/Region: Stredné Slovensko  
Country: SK-Slovakia  
Organization Type: initial training  
Homepage: <http://stavebnabb.eu>

### Partner 6

Name: State Institute for Vocational Education  
City: Bratislava  
Country/Region: Západné Slovensko  
Country: SK-Slovakia  
Organization Type: public institution  
Homepage: <http://www.siov.sk>

## Project Files

### A4\_letacik\_refuge\_sk\_en\_CMYK\_final.pdf

[http://www.adam-europe.eu/prj/9744/prj/A4\\_letacik\\_refuge\\_sk\\_en\\_CMYK\\_final.pdf](http://www.adam-europe.eu/prj/9744/prj/A4_letacik_refuge_sk_en_CMYK_final.pdf)

This is project leaflet where you can find the basic information about the project

### A4\_letacik\_refuge\_sk\_en\_v3\_FINAL.pdf

[http://www.adam-europe.eu/prj/9744/prj/A4\\_letacik\\_refuge\\_sk\\_en\\_v3\\_FINAL.pdf](http://www.adam-europe.eu/prj/9744/prj/A4_letacik_refuge_sk_en_v3_FINAL.pdf)

Project leaflet about the results achieved during the project.

### Curriculum\_CZ\_FINAL.pdf

[http://www.adam-europe.eu/prj/9744/prj/Curriculum\\_CZ\\_FINAL.pdf](http://www.adam-europe.eu/prj/9744/prj/Curriculum_CZ_FINAL.pdf)

Curricula for training of educational advisors in the Czech language

### Curriculum\_EN\_FINAL.pdf

[http://www.adam-europe.eu/prj/9744/prj/Curriculum\\_EN\\_FINAL.pdf](http://www.adam-europe.eu/prj/9744/prj/Curriculum_EN_FINAL.pdf)

Curricula for training of educational advisors in the English language

### Ekonomika\_final\_cz.pdf

[http://www.adam-europe.eu/prj/9744/prj/Ekonomika\\_final\\_cz.pdf](http://www.adam-europe.eu/prj/9744/prj/Ekonomika_final_cz.pdf)

### Ekonomika\_sk\_final.pdf

[http://www.adam-europe.eu/prj/9744/prj/Ekonomika\\_sk\\_final.pdf](http://www.adam-europe.eu/prj/9744/prj/Ekonomika_sk_final.pdf)

### Elektrotechnicke\_zariadenia\_3\_roc\_SK\_FINAL.pdf

[http://www.adam-europe.eu/prj/9744/prj/Elektrotechnicke\\_zariadenia\\_3\\_roc\\_SK\\_FINAL.pdf](http://www.adam-europe.eu/prj/9744/prj/Elektrotechnicke_zariadenia_3_roc_SK_FINAL.pdf)

Text book on electrotechnical equipmnet in the Slovak language

### Energeticke\_sluzby\_a\_poradenstvo\_final\_CZ.pdf

[http://www.adam-europe.eu/prj/9744/prj/Energeticke\\_sluzby%20a%20poradenstvo\\_final\\_CZ.pdf](http://www.adam-europe.eu/prj/9744/prj/Energeticke_sluzby%20a%20poradenstvo_final_CZ.pdf)

### Energeticke\_sluzby\_a\_poradenstvo\_final\_SK.pdf

[http://www.adam-europe.eu/prj/9744/prj/Energeticke\\_sluzby%20a%20poradenstvo\\_final\\_SK.pdf](http://www.adam-europe.eu/prj/9744/prj/Energeticke_sluzby%20a%20poradenstvo_final_SK.pdf)

### Energeticke\_zdroje\_4\_rocnik\_SK\_FINAL.pdf

[http://www.adam-europe.eu/prj/9744/prj/Energeticke\\_zdroje\\_4\\_rocnik\\_SK\\_FINAL.pdf](http://www.adam-europe.eu/prj/9744/prj/Energeticke_zdroje_4_rocnik_SK_FINAL.pdf)

Text book on energy sources in the Slovak language

### Energetické zdroje pre 4 roník\_final\_CZ.pdf

[http://www.adam-europe.eu/prj/9744/prj/Energetické%20zdroje%20pre%204%20ro%C4%8Dn%C3%ADk\\_final\\_CZ.pdf](http://www.adam-europe.eu/prj/9744/prj/Energetické%20zdroje%20pre%204%20ro%C4%8Dn%C3%ADk_final_CZ.pdf)

## Project Files

### Info o projekte\_EN.pdf

[http://www.adam-europe.eu/prj/9744/prj/Info%20o%20projekte\\_EN.pdf](http://www.adam-europe.eu/prj/9744/prj/Info%20o%20projekte_EN.pdf)

Information about the project in English language

### Info o projekte\_FRA.pdf

[http://www.adam-europe.eu/prj/9744/prj/Info%20o%20projekte\\_FRA.pdf](http://www.adam-europe.eu/prj/9744/prj/Info%20o%20projekte_FRA.pdf)

Description of the project in French language

### Info o projekte\_GER.pdf

[http://www.adam-europe.eu/prj/9744/prj/Info%20o%20projekte\\_GER.pdf](http://www.adam-europe.eu/prj/9744/prj/Info%20o%20projekte_GER.pdf)

Description of the project in German language

### Kurikula\_skolenie\_vychovnych\_poradcov\_final.pdf

[http://www.adam-europe.eu/prj/9744/prj/Kurikula\\_skolenie\\_vychovnych\\_poradcov\\_final.pdf](http://www.adam-europe.eu/prj/9744/prj/Kurikula_skolenie_vychovnych_poradcov_final.pdf)

Curricula for training of educational advisors in the Slovak language

### Prirucka\_AJ\_final.pdf

[http://www.adam-europe.eu/prj/9744/prj/Prirucka\\_AJ\\_final.pdf](http://www.adam-europe.eu/prj/9744/prj/Prirucka_AJ_final.pdf)

Handbook on occupations in RES in English language

### Prirucka\_CZ\_final.pdf

[http://www.adam-europe.eu/prj/9744/prj/Prirucka\\_CZ\\_final.pdf](http://www.adam-europe.eu/prj/9744/prj/Prirucka_CZ_final.pdf)

Handbook on occupations in RES in the Czech language

### Prirucka\_SK\_final.pdf

[http://www.adam-europe.eu/prj/9744/prj/Prirucka\\_SK\\_final.pdf](http://www.adam-europe.eu/prj/9744/prj/Prirucka_SK_final.pdf)

Handbook on occupations in RES in the Slovak language

## Products

- 1 [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)
- 2 Handbook on occupations in RES
- 3 Training curricula for educational advisers and counsellors
- 4 Text books
- 5 Project leaflets
- 6 A short film about the project results

## Product 'www.refuge.ekofond.sk'

Title: www.refuge.ekofond.sk

Product Type: website

Marketing Text: You can find all information about the project, all activities and products prepared so far.

Description:

Target group:

Result:

Area of application:

Homepage:

Product Languages: English  
Slovak

## Product 'Handbook on occupations in RES'

Title: Handbook on occupations in RES

Product Type: description of new occupation profiles

Marketing Text: The Handbook on occupations in RES consists of 2 parts. The first parts in a brief overview of RES and the 2nd part is detailed description of occupations in SK, CZ, IT, EL, UK, ES, FR (the last five taken over from the original project Earthcare). It is a textbook which can be also used for training of educational advisers and counsellors during their training.

Description: The Handbook on occupations in RES consists of 2 parts. The first parts in a brief overview of RES and the 2nd part is detailed description of occupations in SK, CZ, IT, EL, UK, ES, FR (the last five taken over from the original project Earthcare). It is a textbook which can be also used for training of educational advisers and counsellors during their training.

Target group: The target groups are:

- educational advisers and counsellors from primary and secondary schools
- pupils of primary (also secondary) schools and their parents
- teachers of vocational subjects
- labour offices

Result: The Hanbook is provided as a hardcopy as well as on CD in Slova, English and Czech languages. It can be also dowloaded from the project website: [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk) in the part project outputs

Area of application: The Handbook can be used

- as a textbook for training of educational advisers and counsellors,
- by pupils of primary and secondary schools and their parents when deciding about their future career
- teachers of vocational subjects
- labour offices during communication with unemployed

Homepage: [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Product Languages: Slovak  
Czech  
English

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## Product 'Training curricula for educational advisers and counsellors'

Title: Training curricula for educational advisers and counsellors

Product Type: program or curricula

Marketing Text: The curricula for training of educational advisers was developed for the area of RES in order to train the educational advisers and counsellors about the RES area and description of occupations in this area. The curricula will be used by regular training which did not exist in the past.

Description: The curricula for training of educational advisers was developed for the area of RES in order to train the educational advisers and counsellors about the RES area and description of occupations existing in this area. The curricula will be used by regular training which did not exist in the past and which will be established by the schools involved in the project on a regular basis. The Handbook (another result of REFUGE project) will be used as the textbook for this training.

Target group: Target group:  
- educational advisers and counsellors from primary and secondary schools

Result: The curricula were developed as a text in Slovak and Czech languages.

Area of application: The curricula will be used for regular training of educational advisers and counsellor from especially primary schools, but also secondary schools.

Homepage: [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Product Languages: Slovak  
Czech

## Product 'Text books'

Title: Text books

Product Type: teaching material

Marketing Text: During the project REFUGE were developed 5 textbooks for especially the study programme technician for energy facilities in buildings, 3 of them also in CZ language:

- Energy sources for the 4th grade - SK and CZ languages
- Energy services and counselling - in Sk and CZ languages
- Economy - in CZ and Sk languages
- Electrotechnical equipment for the 2nd grade - in SK language
- Electrotechnical equipment for the 3rd grade - in Slovak language

The developed textbooks can be used by VET schools in SK and CZ.

Description: 5 textbooks, 3 of them also in CZ language were developed during the project REFUGE:

- Energy sources for the 4th grade - SK and CZ languages
- Energy services and counselling - in Sk and CZ languages
- Economy - in CZ and Sk languages
- Electrotechnical equipment for the 2nd grade - in SK language
- Electrotechnical equipment for the 3rd grade - in Slovak language

The profile and the content of the textbooks was developed by the project partners, the texts were developed by the university professors. The project partners commented upon the draft texts concerning the suitability of the text book for the level of secondary school students. The external evaluators commented upon the the professional side. All comments were included.

Target group: - teachers and student of secondary vocational schools

Result: 5 textbooks, 3 of them also in CZ language:

- Energy sources for the 4th grade - SK and CZ languages
- Energy services and counselling - in Sk and CZ languages
- Economy - in CZ and Sk languages
- Electrotechnical equipment for the 2nd grade - in SK language
- Electrotechnical equipment for the 3rd grade - in Slovak language

Area of application: The textbooks can be used at secondary vocational schools, especially for the study field: technician of energy equipment in buildings

Homepage: [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Product Languages: Slovak  
Czech

## Product 'Project leaflets'

Title: Project leaflets

Product Type: others

Marketing Text: For dissemination about the project and its results were also used leaflets prepared during the project - initial leaflet with basic information about the project and final project leaflet about the results of the project.

Description: Two leaflets - one prepared at the beginning of the project including information about the project and another one prepared before the end of the project including information of the project results.

Target group: general and professional public

Result: 2 leaflets

Area of application: for dissemination of information about the project and its results

Homepage: [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Product Languages: English  
Slovak

## Product 'A short film about the project results'

Title: A short film about the project results

Product Type: Film

Marketing Text: A short video about the project results for prepared for dissemination purposes. It is uploaded on the project website [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk) and all project partners can use it.

Description: A short video about the project results for prepared for dissemination purposes. It is uploaded on the project website and all project partners can use it. It describes all main project outputs/results. It is short enough to be able to use it during e.g. meetings with schools, at conferences, seminars etc. and at the same time it is long enough to include all necessary information about the project results.

Target group: general and professional public

Result: short vide/film

Area of application: during exploitation of the project and dissemination information about the project results

Homepage: [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Product Languages: Slovak

## Events

### Final project conference

Date 20.11.2013

Description The final conference was held before the end of the project in order to present to the project target groups and other stakeholders the project outputs

Target audience All project target groups and all those who participated in the project implementation

Public Event is open to the public

Contact Information [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Time and place 20 November 2013

### Workshop on RES

Date 16.05.2013

Description Workshop - conference for the all target groups, in particular SMEs active in RES to get their information about occupations in RES and present the textbooks prepared under the project.

Target audience SMEs active in RES, educational advisors, students, teachers from secondary schools,

Public Closed event

Contact Information [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Time and place 16 May 2013 Bratislava

## Events

### Training of educational advisors in individual partners

Date 07.02.2013

Description In all 4 partner schools in the Slovak Republic and the Czech Republic were held trainings of educational advisors from the relevant regions. The trainings were organised after development of the curricula, which were tested and afterwards finalised.

Target audience The target audience were educational and career advisors from primary schools from the relevant regions. The total number of the participants was more than 120.

Public Event is open to the public

Contact Information [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Time and place Secondary vocational school in Presov - 7 February 2013  
Secondary vocational school in BB - 12. March 2013  
Secondary vocational school in Trnava - 16 April 2013  
Integrated secondary school in Sokolnice - Czech Republic - october 2013

### workshop on development of the Handbook on occupations in RES

Date 25.10.2012

Description The project partners invited educational advisors and teachers from other primary and secondary schools to get their opinion on development of the Handbook on occupations in RES

Target audience educational and career advisors from primary schools, teachers and directors of secondary schools

Public Closed event

Contact Information [www.refuge.ekofond.sk](http://www.refuge.ekofond.sk)

Time and place 25. - 26 October 2012, Donovaly, Banská Bystrica