



TEMPUS PROJECT JPCR 530194-2012
Energy Efficiency, Renewable Energy Sources and Environmental Impacts-
master study, "ENERESE"

REPORT
RESULTS AND QUALITY INSURANCE OF THE PROJECT

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Based on the report of the meeting of Project Team (Working Group for Quality Assurance) held on 10.02.2014. at the State University of Novi Pazar, feedback from preventive work visit (monitoring visit) project held 31.05.2013. at State University of Novi Pazar, 11.11.2013. at the University of Sarajevo and 15.11.2013. at University of Montenegro, relevant project documentation, it can be concluded:

WP1

Activities on WP1 work package are completed.

Performed an analytical review of energy efficiency on the demand side and the use of renewable energy in the Western Balkans (WB) and EU countries (the countries of the Project partners). The conclusion is that the Western Balkan countries recently established a systematic way to improve energy efficiency at all levels of consumption (buildings, industry, transport, cities and municipalities, a national level), while the EU's experience in this regard is of great benefit. It also analyzes the opportunities for development and trends in the field of energy efficiency can be expected in the Western Balkans. In this regard, there are opportunities for improvement of higher education in the Western Balkan countries through the introduction of a new program, which is the main subject of the project ENERESE. After reviewing existing university programs of study showed that the new program areas should be oriented to the creation of new jobs, which is exactly the characteristic of energy efficiency and renewable energy. The project ENERESE defines a unique master study program in the Western Balkans, in accordance with a modular structure ("Bologna") and with quality output competence in the practical application of knowledge and scientific-research activities.

Proposed measures:

- Relevant state and social institutions in the Western Balkan countries need to continue the systematic improvement of energy efficiency and wider use of renewable energy sources, taking into account the practice and application of EU directives
- Relevant (technical, technological, technical physics, etc.) universities of Western Balkan countries should continue with the introduction of new courses and programs of study in the field of sustainable energy use

WP2

Within this activities the first version of new joint master curriculum is completed for the RS and ME university partners (SUNP, UB, UN and UME). Two modules (Energy efficiency in buildings and renewable energy sources and HVAC and hybrid systems using renewable energy sources) were defined. The study programs in BA university partners are in the final stage of adoption. WB Universities are free to add to its syllabus some topics of its choice, as long as the main learning outcomes are respected. One new upgraded master curriculum with two modules is developed. Adopting developed master program ENERESE as the joint program the horizontal mobility is achieved, while vertical mobility is introduced through defined courses for LLL short seminars. Joint new master curricula for RS and ME partners was completed and accepted at the round table organized during the workshop in Nis. The acceptance of common study program was signed by WB and EU partners.

Proposed measures:

- Continue to improve the quality of academic programs in the field of energy efficiency and renewable energy
- Because of the administrative compliance and similarities, especially should cooperate WB universities in the same state (exchange of professors and students, etc.)
- Monitor the modern trends in these areas and work with EU universities

WP3

Within activities of the work package WP3 two textbooks and one monograph book have prepared for printing and delivered to the students. In the second phase of the project is planned teacher training for WB universities, as well as procurement of necessary equipment and library content at the WB universities. WB partners on the project began in continuous improvement of library content from books, conference proceedings, professional and scientific journals in the field covered by the project ENERESE.

Proposed measures:

- Implement teacher training of WB universities in EU universities and provision of appropriate laboratory equipment under the rules of the tendering process defined by Tempus
- Continue improvement of library facilities

WP4

Activities on work package WP4 have been starting to realize. Thus, in joint ENERESE program that is implementing 2013/2014 school year at SUNP 15 students are registered in November 2013, out of that 6 from SUNP, 3 from UB, 3 from UN and 3 from UME. Between WB and EU project partners are progressing the consultations concerning to the selection of lectures that are interesting for each WB university. The student mobility is planned for the second parts of second and the third project year.

Proposed measures:

- Continue consultations between the project partners concerning to the lectures and topics that are needed new master degree program
- Define student practice in EU universities for students of WB universities

WP5

Within this activities at Senate of SUNP the completed curricula has adopted based on developed master program within ENERESE project and it is transferred to CAQA (Committee for Accreditation and Quality Assurance of National Council for High Education established by the Government of the Republic of Serbia) for external quality assessment. This procedure is on-going at other WB project partner universities, as well. As the leading partner for this WP, QA office of SUNP presented internal QA report. The decision and accreditation certificate are obtained by the CAQA. External assessment of QA activities by EU partners will be done in the second part of second Project year. The questionnaire form for the evaluation of teachers from the students are prepared. The questionnaire survey will be realized in June 2014.

Proposed measures:

- Continue monitoring and internal quality control master study program

- Upon the completion of teaching the same material delivered to the EU assessment of university partners in the project
- Upon realization, analyzed questionnaires with scores of professors by students

WP6

Project website <http://www.enerese.np.ac.rs> operational and is regularly updated. The activities on the creation of promotional material created on study programs have started. Dissemination activities are organized on an internal level (college and university), at national and international conferences and in the local media, especially in Novi Pazar.

Proposed measures:

- Organize actions to promote newly created study programs in high schools, in which the potential future students in direct contact and distribution of promotional materials, presented the study program and the prerequisites for enrollment
- Intensify cooperation with non-academic partners (joint participation in conferences, seminars, exhibitions, etc.)
- Use the opportunities to promote the project and its results at national and regional level

WP7

Project sustainability is achieved through the accreditation project curricula by the CAQA that is already done in RS. On this way is secured program financing after completion of Project in next three years. Also, SUNP Senate has accepted accredited project program for the realization in following years. The master study programs ENERESE at UNSA, UNIBL and UME will be accredited at university level as for the time being in BA and in ME there are not National Accreditation Commissions.

Proposed measures:

- Continue implementation of procedures relating to the activities of accreditation of new study program at WB universities

WP8

Overall project management and administration are realized by Project Management Team (PMT), that is the major project management body. Work of PMT is prepared and organized by SUNP in coordination with other partners. So far, total of 4 PMT meetings (including kick-off meeting at SUNP) were organized. The management of the project has developed matrix organizational structure appropriate for the effective and efficiency management. The project participants have intensive mutual communication. Complete financial project management is organized by Financial Project Manager and his team.

Proposed measures:

- Continue implementation of the agreed activities of project management and communication with all project partners