

A VVER TECHNOLÓGIA KÉPZÉSI FELTÉTELEINEK FEJLESZTÉSE SPECIÁLIS KÉPZÉSI HÁLÓZAT LÉTREHOZÁSÁVAL (CORONA II)

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Bevezetés

A CORONA Projekt két részből áll:

- 1. CORONA I (2011-2014)**
- 2. CORONA II(2015-2018)**

“A VVER technológia képzési feltételeinek fejlesztése a VVER akadémia létrehozásával”, ami az EURATOM 2014-2015 HORIZON 2020 munkaprogramjának társfinanszírozásával jöhetett létre.

Célkitűzés

A CORONA II projekt fő célja, hogy növelje a nukleáris létesítmények biztonságát a nélkülözhetetlen személyzet magas szintű képzési kompetenciájának biztosításával.

A CORONA II projekt speciális feladata egy regionális oktatási központ létrehozása CORONA akadémia néven.

A project célja az európai országok között létrejött együttműködés folytatása, valamint a nukleáris felsőoktatási elméleti és gyakorlati képzés színvonalának növelése.

Résztvevők



A CORONA II projekt feladatai:

- 1. Nemzetközi és nemzeti szinten javítani az oktatási és tudományos együttműködést;**
- 2. Felgyorsítani és optimalizálni a kompetencia alapú oktatás fejlesztését, hogy biztosítani lehessen a magas színvonalú nukleáris oktatást és képzést VVER területen;**
- 3. Ösztönözni a nemzeti képzési rendszerek létrehozását és fejlesztését az atomenergia ágazatban megjelenő új országok részére;**

A CORONA II projekt feladatai:

- 4. A kölcsönös elismerés feltételeinek megteremtése: az ECVET (European Credit system for Vocational Education & Training) - európai szakoktatási és szakképzési kreditrendszer követelményeinek implementálása;**
- 5. A VVER oktatás és képzés integrálása az európai nukleáris biztonság és a sugárvédelem oktatási és képzési rendszerébe.**

Munkacsoportok

- WP1 – Overview and update of existing training schemes and training programs. Development of new training schemes and programs – Lead INRNE**
- WP2 – Update of existing training materials. Development of new training materials - Lead ESIS**
- WP3 – Pilot implementation of ECVET –Lead REL**
- WP4 – VVER Technology Excellence Academy for Safety - Lead TECNATOM**
- WP5 – Upgrade of KM portal and implementation of advanced training tools (e-learning and distance learning system). - Lead MEPhI**
- WP6 – Sustainability of VVER Education and Training Association (CORONA Academy). Link with ENEN and outside Europe– Lead ENEN**
- WP7 – Dissemination - Lead CV Rez**
- WP8 – Project Management – Lead KNPP**

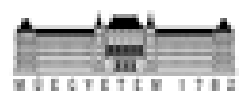
PARTICIPANTS

- Kozloduy Nuclear Power Plant (KNPP), Bulgaria (coordinator)
- Budapest University of Technology and Economics (BME), Hungary
- Engineering Support and Intellectual Solutions (ESIS), Germany
- European Nuclear Education Network (ENEN), France
- National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Russia
- Institute for Nuclear Research and Nuclear Energy of the Bulgarian Academy of Sciences (INRNE), Bulgaria
- Research Center Řež (CVR), Czech Republic
- Risk Engineering (REL), Bulgaria
- TECNATOM, Spain



CORONA

www.corona2.eu



INTRODUCTION

Education, training and maintenance of competencies i.e. knowledge management in engineering and sciences is a cornerstone in Europe's vision for the development of safe nuclear energy.

Within European Union (EU) there is a strong need for maintaining and preserving knowledge and nuclear competence including VVER competence. Russian technology is very popular amongst the European countries but is operated mainly in small countries, which have no enough resources to maintain individually the whole necessary knowledge. There are approximately 30 VVER units under construction in 10 countries in Europe and Asia. Some of these countries will operate nuclear power plants for the first time and will spend significant amount of resources in education and training in the near future.

OBJECTIVES

The general objective of the project is to enhance the safety of nuclear installations through further improvement of the training capabilities for providing the necessary personnel competencies in VVER area.

More specific objective of the proposed CORONA II project is to continue the development of a state-of-the-art regional training network for VVER competence (called CORONA Academia), which pilot implementation through CORONA project (2011-2014) proved to be viable solution for supporting transnational mobility and lifelong learning amongst VVER operating countries. The project aims at continuation of the European cooperation and support in this area for preservation and further development of expertise in the nuclear field by improvement of higher education and training. This objective should be realized through the co-operation between universities, research organisations, regulatory bodies, industry and any other organisations involved in the application of nuclear science, ionising radiation and nuclear safety.

DESCRIPTION

The first task of CORONA II project is to analyze the proposed corrective measures from CORONA project (2011-2014). Based on this analysis the partners will elaborate a list of training schemes, programs and courses to be improved or developed from scratch in order to make an explicit and comprehensive set of training programs, which cover all areas of training courses necessary for training of the target groups.

The Consortium is focusing its effort on using the most advanced ways of providing training to the trainees, saving cost and time – distance learning and e-learning approaches which will be tested in CORONA II Project. The knowledge management portal, which development started within CORONA project will be built up to include new features and various information for user's benefit. It will integrate the information on VVER web into a single communication system and develop and implement a semantic web structure to achieve mutual recognition of authentication information with other databases. That will enable the partners to share the materials available in each specific training center.



To complete the idea for state of the art training centre it was concluded that the establishment of VVER Training Association (CORONA Academy) will benefit vigorously, supported by new tools as Excellence Leadership Academy for Safety and the natural complement of the theoretical training, a Human Factor Simulator (HFS), all of them oriented to foster and maintain a strong safety culture. The sustainability of education and training efforts in VVER technology cannot be effective without a permanent structure that assures its follow-up and its survey. In this frame the integration to ENEN Association could be instrumental.



EXPECTED RESULTS

The project contributes to the EURATOM call 2014 -2015 general objective: „To pursue nuclear research and training activities with an emphasis on continuous improvement of nuclear safety, security and radiation protection, notably to potentially contribute to the long-term decarbonisation of the energy system in a safe, efficient and secure way”.

Impact at European Level is expected by increasing the quality and participation of nuclear E&T community of VVER operating countries to the Euratom programme and by contributing to the development of the specific VVER knowledge.

Impact at regional level is expected due to the harmonization of nuclear education and training programs which will allow increasing the quality of the process, to develop a common learning, teaching and training program and to provide expert support to the authorities regarding nuclear education and training policy and development.

Köszönöm a figyelmet