



### The project:

The Erasmus + project "Professional Bachelor degrees in Open and Distance Learning for Energy and Environmental Performance of Buildings in Russian Federation, China and Azerbaijan" promotes cooperation for innovation and the exchange of good practice In higher education.

The three partners and recipients of the project, namely the Russian Federation, China and Azerbaijan, must take measures to rethink the energy efficiency of their buildings. Policies to combat global warming, the mobilization of renewable energies and energy efficiency are major challenges for these countries and necessary for the sustainable construction of a market and the adaptation of human resources to the energy transition.

This project is part of the European policy that incorporates the energy efficiency of buildings as a solution in its Green Paper as well as in the renovation of training courses in line with the Bologna process.

It also enables universities with general energy and building curricula to specialize in order to meet the needs of companies to acquire new skills.

To conclude, the LPEB project is accessible in Open Distance Learning from digital teaching resources.

### Specific goals of the project :

- To compensate for the lack of qualification on the intermediate levels (site manager, office engineering technician) by improving the employability of students and by perfecting the executives of the companies.
- To accompany a profound change in professional practices through the deployment of a complete modular system covering all initial and continuing training needs in the building trades impacted by the Energy Transition and accessible in FOAD from digital resources.
- Professionalize curricula in the fields of climate engineering and energy in accordance with the Bologna process and the European Qualifications Framework (EQF).
- Create a professional Bachelor (accessible in FOAD) for the energy and environmental performance of buildings.
- Train 25 teachers in Europe
- Create a center of excellence, resource center for energy performance.

### Partner institutions

- ❖ CNAM, the National Conservatory of Arts and Crafts, promoter of the project, France
- ❖ AGCNAM, the Management Association of the National Conservatory of Arts and Crafts of Rhône-Alpes, France
- ❖ GIP FIPAG, Public interest group training and professional integration of the academy of Grenoble, educational coordinator, France
- ❖ Tsentr za Razvitie i Vnedryavane na Evropeiski Praktiki Ltd, évaluateur, Bulgarie
- ❖ UNINETTUNO, Telematic University, Italy
- ❖ USE, Universidad de Sevilla, Spain
- ❖ HTWK University Leipzig, Germany
- ❖ POLITO, Politecnico Di Torino, Italy
- ❖ UNIPV, Universita Degli Studi Di Pavia, Italy
- ❖ Azerbaijan Technical University, UTA
- ❖ Azerbaijan University of Architecture and Construction, AzUAC
- ❖ Sumgait State University, SumSU
- ❖ Ministry of Education of the Azerbaijan Republic (MEA)
- ❖ Harbin Institute of Technology, HIT
- ❖ Dalian University of Technology, DUT
- ❖ North-Eastern Federal University in Yakutsk, NEFU
- ❖ Siberian Transport University of Railway Engineering, SGUPS
- ❖ Tuvan State University, TuvSU
- ❖ Irkutsk State Technical University, ISTU
- ❖ Far Eastern Federal University, FEFU

- Train at least 160 students in each of the regions on the new curriculum.
- Create a modular system of FTLV, transversal to the building trades for energy performance and train 50 professionals in each of the regions.

## Kick off

The project was opened in Paris in the presence of the General Administrator of the CNAM, Mr Olivier Faron, during the 1st International Steering Committee LPEB which took place during the week of 4 to 8 April 2016.



## First realizations

After 14 months of work, the course contents of the specialty course "energy efficiency of buildings" are produced and the first student promotion will start in September 2017 in all the partner countries. It will be delivered as a face-to-face event because the introduction of the ODL will take place throughout the coming months so that the second student promotion, which will start in September 2018, will also have the possibility of integrating the Professional Bachelor in distance learning.

Mobility of teachers and dissemination activities have also followed their course as envisaged by the project, which has sufficient local political support in order for it to be carried out and to be perpetuated at the end of its official end in October 2018.

## Dissemination activities :

### **Website :**

- The website is online : <http://lpeb-erasmus.eu/> and all the productions are deposited as soon as ready, in order to allow a free access to the didactic resources produced by the members of the consortium.

**In each country, two types of dissemination have taken place since the beginning of the project:**

- Dissemination workshops: Dissemination workshops are aimed at all the faculties and universities of the region who do not participate directly in the project in order to present the latter, its objectives and results.
- Transfer training: transfer training is aimed at the entire faculty outside the project. It is carried out by the professors of the partner universities who have followed a refresher course in Europe and who pass on the methodology for the renovation of university courses in line with the Bologna process and the CEC.

