

## THE PLAN OF THE DEVELOPMENT OF THE EDUCATIONAL PROGRAM “ENERGY SAVING AND RENEWABLE ENERGY SOURCES”

### 1 Passport of the educational program

1	Bases for elaboration of the EP development	Regulations on the order of elaboration of the EP development and monitoring of its realization of SMQ 11010.73-2013
2	Main developers of the EP development plan	Head of the chair, doctor of technical sciences, professor A.Kh.Tleuov. Employers: “Kaztekhenergосervice” director Sarmanov A.K., chief of safety operation and SE service ” Astana-REK” JSC, Moshchenko V. G., chief engineer deputy of AREK Esenov B. A., “Mekhkolonna 13” Ltd deputy director , Isabekov A.I., “Kazakhenergoeksperiza” JSC, director Zhakanov B. E.
3	Terms of implementation of the EP development plan	2013 – 2016 yrs.
4	Volume and financing sources	The budgetary and involved funds
5	The expected final results of implementation of the EP development plan	The updated maintenance of EP, improving of chair material resources. Existence of effective author’s learning aids (programs, tutorials). Improve of qualifications of teaching staff according to foreign training. Training of the qualified experts intended for the solution of set of technical and organizational actions, directed on increase of efficiency of use of energy resources and being part of the general structure of business management.

### 2 Problem characteristic

The educational program “Energy saving and renewable energy sources” is developed within specialty 5B071800 – “Electrical power engineering” was founded according to ISO 50001-Power management, Law and Resolutions of the RK government of energy saving and power management, requirements of a level of development of equipment and technologies in the Republic of

Kazakhstan, inquiry of employers, within the European project Tempus “Introduction of specialty of a bachelor degree on the basis of distance learning in higher education institutions of Kazakhstan”.

The educational program is developed according to the National and European framework of qualifications, professional standards, coordinated with the Dublin descriptors. It is developed on the basis of State higher educational standard approved by the resolution of the government of the Republic of Kazakhstan, August 23, 2012 No. 1080, the Standard curriculum of specialty 5B071800 - “Electrical power engineering”. The educational program is designed on the basis of modular system of studying of the disciplines forming general education and professional competences

### 3 List of the plan arrangements

<b>№ in order</b>	<b>Arrangements</b>	<b>Time-frame</b>	<b>Person in charge</b>
1.	Formation of the commission on elaboration of the Educational program	April 2013yr.	Tleuov A.Kh. Pyastolova I.Ya, Babko A.N.,
2.	Development of the purpose and the task of the Educational program	May-June, 2013 yr.	Tleuov A.Kh., teaching staff
3.	Determination of competences of the expert and disciplines of specialty	May-June, 2013 yr.	Tleuov A.Kh., teaching staff
3.1	Development of the common position on competences of the Educational program of experts with employers	June, 2013 yr.	Tleuov A.Kh., teaching staff
3.2	Development of the common position on competences of the Educational program of disciplines of specialty with employers	June, 2013 yr.	Tleuov A.Kh., teaching staff
3.3	Formation and coordination of competences of the expert and disciplines of specialty with the Dublin descriptors	June, 2013 yr.	Tleuov A.Kh., teaching staff
4	Formation of the Educational program according to the professional skills	June, 2013 yr.	Tleuov A.Kh., teaching staff
5	Compiling the academic calendar and the working curriculum in the specialty according to the developed of the	June, 2013 yr.	Tleuov A.Kh., teaching staff

	Educational program		
6	Consideration of the Educational program on enlarged meeting of the chair with participation of employers	August-September 2013 yr	Chair of “Electrical power engineering”, employers
7	Consideration and the approval of the Educational program on the Academic council of faculty	сентябрь 2013 г.	Members of the Academic council of the faculty, employers

#### 4 Content of professional activity

The main in professional activity of the power manager are:

- interaction of power consumers of the enterprise with power supplying organizations;
- the organization of power inspection of the equipment for the purpose of increase of power efficiency and energy saving;
- processing and providing information on power consumption on separate structural divisions (productions, shops, sections);
- preparation of offers on energy saving;
- start of energy saving projects and management of them;
- carrying out explanatory and educational work with all workers about energy saving importance and need.

Dean of Energy faculty

S. S. Issenov

Head of the “Electric equipment operation” chair

A.Kh.Tleuov