**The Statement of**

**The Sixth International competition of energy-saving and ecological guarding ideas**

**"ERGONOMICS OF THE FUTURE"**

 **1. General Provisions**

1.1 This provision determines procedures of competition of energy-saving and environmental protection ideas(further - competition), requirements to the projects, terms of choice of winners of competition and their rewarding.

1.2 The organizers of competition are: "ProEco" company, "Ergonomica" company together with "KazPromAvtomatika" company, the Karaganda state technical university (further - KarSTU) with support of UNDP, Karaganda regional Akimat, "Grundfos" (Austria), "Danfos"(Denmark), "Itron"(France) and "Teplokom" (Petersburg) companies.

1.3 The participants of competition are students, young specialists. All who are not indifferent from a teenager to the pensioner, from a schoolboy to the academician and from a housewife to the Member of Parliament!

1.4 **Aim and tasks of competition**

* Propaganda of ideas of energy-savings as norms of life.
* Bringing in the most active part of young people to the creative process and work in the field of energy-savings and protection of ecology. Development and search of new ideas of energy-savings.
* Stimulation of participants of competition engaged in issues of ecology and energy-savings.
* Search of new ideas of energy-savings and their implementation.

**2. Principle of the competition**

2.1 Projects that meet the requirements of this Provisions are accepted for consideration.

2.2 Organizers form a working group for organizing and holding competition and Competitive Commission (no more than 10 persons) and choose a Chairman of Competitive Commission.

2.3 Organizers of competitive commission can engage representatives of branch ministries and departments, independent experts in area of energy-savings and investing.

* 1. Projects are accepted in the following nominations:
* **The most original idea of an energy-savings and protection of ecology:**

ALL (we underline ALL) ideas are accepted. And even those that cannot be realized practically today. Main criteria are NOVELTY and ORIGINALITY and absence of contradictions to the basic laws of physics and logic. Therefore we wait any interesting suggestions, without regard to practicality and possibility of realization. There would be an IDEA and a technique will be pulled up!

**- Second Life.** In this category projects that focus on rational use, treatment and disposal of garbage and domestic waste are involved. We are waiting for new and original ideas. The possibility of practical and simple implementation is welcome.

**-**  **EXPO 2017.** **Solution of practical problems:** designer projects containing new ideas and original approach in the decision of municipal problems from the point of view of energy efficiency and ecological protection are accepted. Reasonable projects touching any problems of your city are accepted.

**- Ecological campaign against illiteracy:** projects, containing original ideas assisting forming of ecology- and energy- literate population, are accepted.

**- Ecohouse:** The idea of this category is to build a house, or a series of activities in a city apartment, through which microclimate favorable for life will be supported inside. As a result of all activities undertaken house should be environmentally friendly, economical, energy efficient and comfortable for living. Projects presenting the most original and effective ideas directed to the decision of problem, are accepted. The most successful decision will be realized practically.

**- Intelligent bus stop:** Projects incorporating new ideas and solutions for improvement, energy efficiency and environmental improvement of the infrastructure of the city are accepted. The best project will be implemented in practice.

2.5. Projects can be both from the point of view of energy and design or construction.

2.6. **Criteria of estimation of works:**

* relevance;
* originality;
* novelty;
* economic efficiency;
* ecological efficiency;
* energy efficiency;
* rationalism;
* personal contribution of participant;
* practicality;
* social significance

**3. Organization of competition**

A competition plugs in the next stages:

3.1 First stage - from February, 25 to November, 01 2015 - collecting applications for participation in the Competition and preliminary selection of participants.

3.2 Second stage - from November, 01 to November, 16 2015 - selection of projects that meet the requirements of the competition, examination of competitive works.

3.3 Third stage - from November, 16 to November, 20 2014 - presentation of projects of participants-finalists. Selecting the winners of the nominations.

3.4 Final stage - from November, 27 to November, 27 2015 - final of the competition, awarding the winners.

3.5 Participants of competition carry all charges related to preparation and submission of documents, and also costs of travel and accommodation (at desire of personal participation in the award ceremony).

 **4. Requirements to the project**

4.1 A project must correspond to direction of competition;

4.2 Project and all documents can be presented in Kazakh, Russian and English languages.

4.3 Content of project in all cases must reflect creative independence of author in solving technical problems;

4.4 The number of coauthors must not exceed 3 persons;

4.5 In a project must be reflected and clearly defined: aim, task, actuality, advantages, results of researches, description of appliance or device or technological process, calculations, illustrations(photos, tables, charts etc.), conclusions, personal deposit of participant of competition, economic, ecological efficiency, social meaningfulness, term of recoupment, current status.

4.6 Project should be sent in 2(two) copies in the printed form to the address of company "Ergonomika" and in electronic form on e-mail: future@proeco.center

* 1. Execution of documents :

- text document is in MS Word. Font - Times new roman, 12,14 size of type through 1-1,5 interval, tabular material with calculations - MS Excel

* Documents should be printed on А- 4 size, margins not less than 1,5 cm.

- Continuous page numbering.

- Corrections in a text are not allowed.

- All amounts indicated in a project must be expressed in tenge or dollars.

- Units of physical quantities should be given in the international measuring system.

4.8 Each document included in competitive documentation must be signed by authors. Documents included in the application must be stapled, stitched or packed in such a way as to prevent loss of sheets.

4.9 Documents necessary for participating in a competition:

- Questionnaires of participant (Appendix 1);

- Competition work (project);

- Copy of identity card.

Prizes for winners:

- **a visit to one of foreign companies**, producing energy-saving equipment (covered by the organizers);;

**- a journey to Saint-Petersburg** with the visit to Teplokom company (Russia's leading manufacturer of devices for energy account) and excursion program of historical part of a city;

**- notebooks;**

**- tablet;**

**- money prize;**

- **realization** of project on the base of "Laboratory of development and regulation of energy-saving and heating systems" of Faculty of Energy and Telecommunications of KarSTU, with possibility of presentation on the International exhibition EXPO 2017.

- and other consolation prizes.

We are waiting for you at: "Ergonomika" company, 100019 Republic of Kazakhstan, Karaganda, ulitsa Krivoguza, 57/2.

proeco.center

Contact persons:

Miroshnichenko Darya, tel: 8 (7212) 909 758, mob. +7 701 513 98 24, future@proeco.center