



**ПАВЛОДАРЭНЕРГО**

АКЦИОНЕРНОЕ ОБЩЕСТВО



**CAEPCO**

Центрально-Азиатская  
Электроэнергетическая Корпорация

!

## PRESS RELEASE

On May 22, 2012 «PAVLODARENERGO» Joint-Stock Company (hereinafter – the Company) undertook a drilling-and-blasting disassembling of the reinforced concrete cooling tower # 2 at CHP-2 in Pavlodar. At the existing filed before the end of the year 2012 a new block-module ventilator cooling tower will be constructed.

Reconstruction of the cooling tower # 2 has marked a new milestone in more than half of a century of history of CHP # 2 in Pavlodar. The disassembled cooling tower with an irrigation area of 900 square meters was used in operations for 46 years, since 1963. In 2009 the expert evaluation of technical parameters of the cooling tower was undertaken, and the opinion was given on prohibition for using it due to its unsatisfactory state. The volume of costs for restoring the obsolete cooling tower is comparable with constructing the new one, so, accordingly the Company made a decision to disassemble the cooling tower with worn out working capacity and to create a new one at the existing filed.

«The main complication in disassembling the cooling tower was that it was necessary to turn it off with the subsequent capping and valving on two pressured circulating pipelines and on two gravity channels. At this the generating capacity of the power plant for this period remained unchanged (in terms of implementing the set schedules on output of electricity and heat). The next complication was to ensure the safety of surrounding buildings, constructions and existing engineering networks from falling the cooling tower to the ground. Despite of all hardships disassembling the cooling tower was performed successfully” such a comment on the project was given by Oleg Perfilov, the Vice President and Technical Director of “Central Asian Electric Power Corporation” JSC.

Supposed periods of launching the new three section block-module ventilator cooling tower are set as the third quarter of the year 2012. Costs for that project will amount to KZT 437 million.

Constructing the ventilation cooling towers is 2-3 times cheaper than constructing the chimney type ones. Using the modern water absorbing systems in the ventilator cooling towers allows to significantly decrease water losses at droplet entrainment (up to 0,002%), and thus to decrease the volume of water used for feeding the system. Constructions of this system require lesser area of building when compared to other water cooling structures, while achieving the same cooling effect. In ventilator cooling towers only the modern, environmentally friendly materials are used, as oppose to asbestos-concrete blocks of irrigators, used previously for construction other types of cooling towers.

«Launching the new cooling tower at CHP-2 will allow to remove the restriction for generation of electricity in a condensed mode, and to carry the electricity load of 70 MWt during summer months, thus increasing the generation by 5 MWt as related to the projected capacity of the power plant during summer» - noted Vladimir Shevtsov, the Chief Engineer of «PAVLODARENERGO» JSC

Disassembling the existing cooling tower and assembling the new one is being implemented in the frame of investment program of the Company, included into the agreement with the Ministry of Industry and New Technologies of the RK for the year 2012. Modernizing the equipment at CHP-2, being obsolete by 70% became possible because of the Enactment of the Government

«On Approval of Ceiling Tariffs», adopted in 2009. Due to the investment component of tariffs electric power companies obtained funding for programs on reconstructing and renewing the equipment. Investment program of «PAVLODARENERGO» JSC is directed at increasing the capacity of generating energy assets, at increasing the efficiency of use of industrial capacities, decreasing the production losses and enhancing the environmental conditions in the regions of operations. By the results of implementing the investment program by 2018 the depreciation of fixed assets of «PAVLODARENERGO» JSC will decrease by 35-40%.

#### **Reference:**

«PAVLODARENERGO» JSC is a vertically integrated energy company, undertaking the generation, transmission and sales of electricity and heating in Pavlodar region. The energy system includes CHP-2 and CHP-3 in Pavlodar, CHP in Ekibastuz, Heating network enterprises of Pavlodar and Ekibastuz cities, «Pavlodar Distribution Electricity Network Company» JSC and «Pavlodar energosbyt» LLP sales company.

The total installed electric capacity of power plants amounts to 627 MWt, heating power installed capacity is 2012 Gcal/h. «PAVLODARENERGO» JSC ensures electricity supply for the territory of Pavlodar region with a total area of 124.8 thousand square kilometers with a population of 746 200 people.

Press service of «CAEPCO» JSC  
Kadyrzhan Smagulov  
+7 (727) 258 49 41 (ext. 217)  
+7 (707) 814 88 98  
k.smagulov@energy.kz