



July 2018

**CAEPCO JSC ARRANGED
“ENVIRONMENTAL TASK FORCE” IN HONOR
OF THE 20TH ANNIVERSARY OF ASTANA**

On July 14, 2018, the Central Asian Electrical Power Corporation JSC (CAEPCO) and its subsidiaries – Akmolinskaya EDC JSC, AREC-Energosbyt LLP, and Astanaenergosbyt LLP have conducted “Environmental Task Force” coincided with the 20th Anniversary of Astana and the 10th Anniversary of the Corporation. This campaign took place in Akmolina region.



Participants of the environmental task force were more than 200 employees of the Group of CAEPCO Companies and the representatives of Akimat of Tselinograd district of Akmolina region headed by Akim – Malgazhdar Tatkeyev. “Within the limits of “Rukhani zhangyru” State Program directed to modernization of social consciousness, “Tugan zher” Project is implemented in Kazakhstan. This process aims at positive changes

in the society; modernization should begin at home. Therefore, the company conduct a social campaign in support of the native shore in honor and the 20th Anniversary of the capital of Kazakhstan”, - said Naiyl Saifullin, General Director of Akmolinskaya EDC JSC.

In the course of the “Environmental Task Force”, over 20 tons of solid household

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key indicators:**

More than
10 000
EMPLOYEES



7,1%
share in Kazakhstan’s
total electricity
output in 2017



More than **2** MLN
consumers
(including family members)



1 203 MW
installed power generating
capacity



50,100 KM
total power network length
220-04 kv



2 953 GCAL/H
installed heat generating
capacity



995,7 KM
total heat network length

UNIQUE MODERNIZATION

A steel frame of superficial structure of the foundation turbine is installed at Pavlodar CHP-3. What’s unique here is that this frame allows achieving a minimum value of vibration status while in operation of turbine generator No.6. It is worth noting that it is the first installation of such type in Kazakhstan and in the CIS territory.

Up to date, the first section of 156-ton steel frame was installed. It consists, in whole, of three larger parts; two parts will be attached to the first one over the course of nearest several days.

“Our major tasks were to fix a frame section on special spring supports, to adjust in horizontal direction and along an axis of a future installation of the turbine genera-

tor. There are not any analogues of such steel frame in Kazakhstan and in the CIS. This is a project of the “GERB” German firm that was implemented jointly with Sevkazenergoprom Institute”, - said Alexandr Vergolyas, Chief Engineer of CHP-3. Turbine No.6 was firstly operated in 1977, it was mounted on reinforced-concrete foundation, all aggregate was installed on

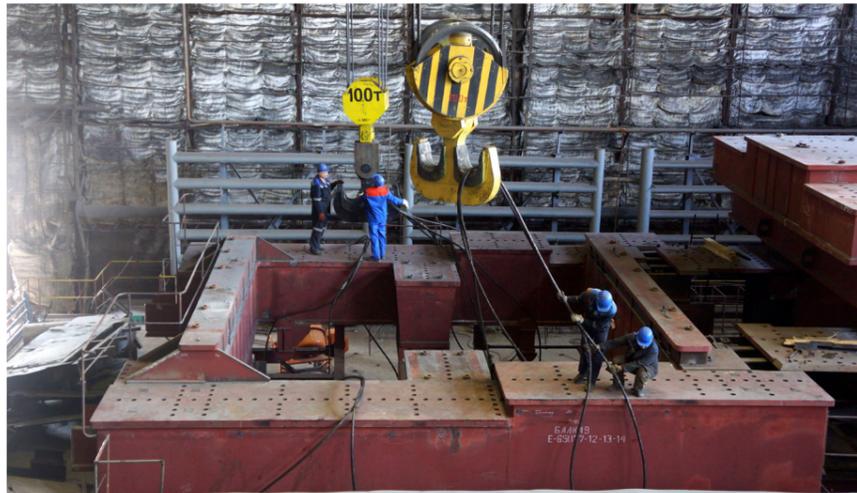
twist-and-steer girts made of reinforced concrete. Now, the turbine generator will be installed on a steel frame to be located on columns with spring blocks. The new generator and two cylinders of high and medium pressure are manufactured by the Uralsk Turbine Plant. Low-pressure cylinder is in good repair and shall not be replaced.

The German party performed the site supervision for installation of spring elements when assembling a steel frame of superficial structure of foundation and condenser of turbine generator No.6.

Under the direction of the German engi-

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UNIQUE MODERNIZATION



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neers, 12 foundation plants were installed and setup, spaces between columns and foundation plates were filled, pretensioned spring elements of condenser and of turbine were installed.

"All abovementioned works were performed according to the project without any remarks. Now, upon full assembly of turbine generator, pipelines, isolation, water pouring into the condenser, we are waiting for one more specialist from the same company. He shall perform works

on release of spring elements. They will be released in-situ in order absorbing of turbine vibration may be possible. The final setup of the turbine, start-up operations and hook up of the turbine into electrical network will be made upon completion of all works", - told Gennady Morar, Head of Reconstruction and Modernization Department. Reconstruction of turbine No.6 shall be performed through the end of 2018. Upon the reconstruction, installed electric power of the station will be increased by 15 MW and will amount 555 MW.

PROFENERGY IN ACTION

In July, the subsidiaries of CAEPCO JSC, PAVLODARENERGO JSC, and SEVKAZENERGO JSC have conducted final stages of research paper competition annually conducted in the Companies within the framework of PROFENERGY Project. The best intramural students of regional educational establishments, who major in power engineering industry, were admitted to the final defense of research papers.

Selection consisted of two stages. In the final, the authors shall defended their papers before the competent commission. The General Directors of the Companies headed the Commission for defense of research paper in candidacy for individual corporate studentship of PAVLODARENERGO JSC and SEVKAZENERGO JSC. We shall note that the participants of the competition touched in their researches the most pressing problems of the production operation.



In PAVLODARENERGO JSC, four students received the individual corporate studentship according to the results of the competition. Among them, Ivan Silchenkov, student of the Innovation Eurasian University, and three students of the Ekibastuz College of the Engineering Technical Institute named after the Academician K. Satpayev - Yevgeniya Saponenko, Daryn Kabidenov, and Maxim Yakushev. They will receive the individual studentship from PAVLODARENERGO JSC during the fourth year of study. The college students will receive the individual studentship amounting to seven MCI per month, and the IEU student - amounting to ten MCI per month. In SEVKAZENERGO JSC, two candidates for the individual studentship made it into the final; they are the students of the Petropavlovsk College of

ISSUE OF A COLLECTED BOOK "HEAT FOR ALL" FOR AWC IN PAVLODAR

In July, Power Engineers of PAVLODARENERGO JSC presented the Collected Book "Heat for All" with recommendations and technical requirements within the framework of preparation to the heating season. This book is addressed to the AWC employees and to owners of apartments and separate houses.



"In 80% of all cases when people complain about a lack of heating, "Pavlodar Heat Networks" are not in fault, - noted Oleg Perfilov, General Director of PAVLODARENERGO JSC at the presentation of this collected book. - In this year, we tried to enlarge our communications with AWC, residents, press, and Akimat". Circulation of the collected book is 5 000 exemplars. Electronic version is available at Websites of PAVLODARENERGO and CAEPCO.

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waste were removed from the Nura River banks at 20 kilometers from Akmol aul of Akmol oblast.

This place is the favorite leisure zone of capital townspeople and local citizens who, unfortunately, remain, in general,



household waste: plastic and glass bottles, plastic bags, and organic waste. In the course of this campaign, the employees of the Group of CAEPCO Companies removed the waste from the coastal area of the Nura River from both sides, filled up pits from old fire-pits, and installed billboards "STOP! Take care that there is clean!", "Take your waste!".



ENERGY OF GENERATIONS

The Group of SEVKAZENERGO JSC Companies celebrates two jubilees: 55 years of North Kazakhstan REC JSC and 10 years of Sevkazenergosbyt LLP. It became the cause for family sporting competitions in the territory of the Kyzylzhar PDZ polygon.

The event called "Energy of Generations" was conducted in the form of children's campus: four enterprises of the Group of Companies and the Managing Office of SEVKAZENERGO JSC created their "troops".

Firstly, the "troops" were acquainted with each other, presented the team name, motto, and team fight song. According to the results of "Family Starts" sporting relay, out of eight families the winner was Pili-pich family from North Kazakhstan EDC JSC, Mironovich family from Petropavlovsk Heat Networks LLP took the second place, and Agay family from Sevkazenergosbyt LLP took the third place.

The teams of the sporting competitions, not related to top 3 of winners, were encouraged in the nominations "For will to victory", "Most purposeful family", "Most merry family", "Most energized family",



and "Most subtle family".

Upon the sporting competitions, creativity competitions started at the stage; the participants of such competitions were popstars and showed their artistic skills. Jurors appraised the creative performances of the teams.

The cup for the third place in the creativity completion was awarded to SEVKAZENERGO JSC; the anniversary celebrant - Sevkazenergosbyt LLP - took the second place. Sacred cup for the first place was also awarded to the anniversary celebrants - a troop from North Kazakhstan REC JSC. Thus, it was the first summer competitions among the employees of the Group of SEVKAZENERGO JSC Companies with a hope that it is only the beginning!

ENVIRONMENTAL AUDIT CONDUCT

In May 2018, an independent environmental audit including an estimate of best available technology was started at Petropavlovsk CHP-2, Pavlodar CHP-2 and CHP-3, and Ekibastuz CHP.

The audit company involved local experts, members of the Environmental Chamber of Auditors of Kazakhstan, and international experts in best available technologies in a sphere of power industry.

The active audit stage was conducted in June: visit of stations of SEVKAZENERGO JSC and PAVLODARENERGO JSC. On June 6-9, the international experts Monika Příbylová and Jan Štejfá visited Petropavlovsk CHP-2, Pavlodar CHP-2 and CHP-3. In the course of such visits, the experts performed the commission examination of main shops of stations (fuel-transport, turbine, and boiler) starting from fuel delivery to the station and completing by finished goods issue. According to the results of the audit conducted, a report will be made and an action plan on reduction in pollutant emissions and environmental progress of the current stations up to 2025 will be developed according to the national standards.