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YUGOSLAVIA MAKES POWER PLANT EQUIPMENT;
EXPANDS HYDROELECTRIC, THERMAL POWER PLANTS

TURBINE FACTORY MANUFACTURES STEAM TURBINE PARTS -- Zagreb, Vjesnik, 16 Jul 51

The "Edvard Kardelj" Turbine Factory in Karlovac now makes all major repairs, adjustments, and changes on steam turbine parts, particularly turbine vanes. Yugoslavia is no longer dependent on foreign technicians for this work.

From 1948 until the present, the factory has rebuilt a considerable number of steam turbines, and has also installed 14 new turbogenerator units in Rasa, in the cellulose factory in Prijedor, in the "Jugovinil" Factory in Kastel Sucurac, etc.

Large expenditures for the procurement of turbines have been decreased by manufacturing turbine vanes from special steel and brass alloys Yugoslav metallurgists have succeeded in producing for this purpose. The Jesenice Ironworks produces the steel alloy, the "Impol" Light and Nonferrous Metals Factory in Slovenska Bistrica produces the special brass alloy, and the "Edvard Kardelj" Factory finishes the vanes. Some steam turbines have already been rebuilt with Yugoslav-made vanes.

The "Edvard Kardelj" Factory recently finished 5,000 turbine vanes for the 12,500-kilowatt turbogenerator unit in the Trbovlje Thermal Power Plant. The Rajhenburg Thermal Power Plant will soon receive the same kind of vanes, made of special steel. The newest X-ray and ZYGLO test methods attest to the good quality of the vanes.

The steam turbine in the Kreka Thermal Power Plant was rebuilt recently by replacing the moving and stationary vanes of the Parsons section with brass-alloy vanes. Tools for making the semifinished vanes were made by toolmakers Zafosnik, Mlinar, and Lucin of the "Impol" Factory, tools for fabricating the vanes were made by the "MEBA" Metal Products Factory in Zagreb, and the "Edvard Kardelj" Factory finished the work on the vanes. The rebuilding of this turbine will assure constant electric power to the entire Banovici, Kreka, and Tuzla basin.

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The "Edvard Kardelj" Factory also finished 30,000 turbine vanes for the two turbines in the Mostar Thermal Power Plant. About 10,000 vanes will be mounted in each turbine and 10,000 vanes will be kept as spares.

The paper mill in Zagreb was also supplied with new vanes for its turbine.

NEW STEAM BOILER DOUBLES POWER PRODUCTION -- Zagreb, Vjesnik, 22 Jul 51

Borovo, 21 July -- Tests of the newsteam boiler in the electric power plant of the Borovo Combine have been successfully completed. The boiler withstood a pressure of 42 atmospheres. It will double the plant's production of steam and electric power.

The Borovo power plant and combine were built before the war, but after the liberation could not meet the electric power requirements of expanded production facilities. It therefore became necessary to build a new and larger boiler.

All the boiler parts except the steam drum were made in Yugoslavia, under the direction of the "Djuro Djakovic" Railroad Equipment Factory. The boiler and its components weigh about 600 tons.

A crew of workmen from the "Djuro Djakovic" Factory recently assembled the boiler, assembly of which was begun in January. This is the first work of its kind ever done in Yugoslavia with Yugoslav personnel. Previously such work was done by foreign technicians.

SOKOLOVICA POWER PLANT INSTALLS SECOND GENERATOR UNIT -- Belgrade, Borba, 16 Jun 51

Zajecar, 15 June -- The second generator unit of the Sokolovica Hydroelectric Power Plant on the Timok River was installed recently and trial tests begun. Completely Yugoslav-made, the turbine was built by the "Litostroj" Heavy Machinery Factory, the generator and transformer by the "Rade Koncar" Electric Equipment Factory, while installation was done by the "Hidromontaza" (Hydro Assembly) Enterprise. The turbine of the new generator unit is the first Kaplan turbine to be built in Yugoslavia. Its rotor was displayed at the 1950 Zagreb Fair.

The new generator unit has a capacity of 1,600 kilowatts, which added to that of the first unit in operation since 1948, will bring the total capacity to 2,240 kilowatts.

TO EXPAND HYDROELECTRIC POWER PLANT IN SVICA -- Zagreb, Vjesnik, 22 Jul 51

Work will begin soon on expansion of the local hydroelectric power plant in Svica, on the Gacka River waterfall, near Otocac. Two generators, each of them two and a half times the capacity of the old generator, have been delivered to Svica, while two new turbines are being built by the "Litostroj" Enterprise. The turbines will be finished by the beginning of 1952. According to the plan, all new equipment for the plant will be completed by mid-1952.

The one small generator unit now operating in the plant was built and installed in 1935, and does not make full use of the water from the Gacka River. The electric power produced only satisfies the requirements of Otocac and Svica, for other villages were not taken into consideration when the plant was built.

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In expanding the plant, maximum utilization of the water is to be considered. The height of the present dam will be increased, the waterfall increased, and the buildings remodeled for the installation of two turbines and two generator units.

The expanded hydroelectric power plant will produce five times as much power, and will make possible the electrification of all villages in Otocac Srez.

BUILDS PROTOTYPE OF SMALL HYDROELECTRIC POWER PLANT -- Zagreb, Vjesnik,
22 Jul 51

Belgrade, 21 July -- The "Nikola Tesla" Institute of the Serbian Academy of Science, in Belgrade, has built a prototype of a small hydroelectric power plant suitable for the electrification of villages which are far from electric power network lines. Tests of the new plant made by the Federal Institute for Turbine Machinery, in Ljubljana, have been very successful.

This $8\frac{1}{2}$ -horsepower, or 5-kilowatt, plant, which required 2 years to design and build, is adaptable to creeks, small rivers, and other small streams which have a 200-liter-per-second flow and a 400- to 500-meter waterfall.

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