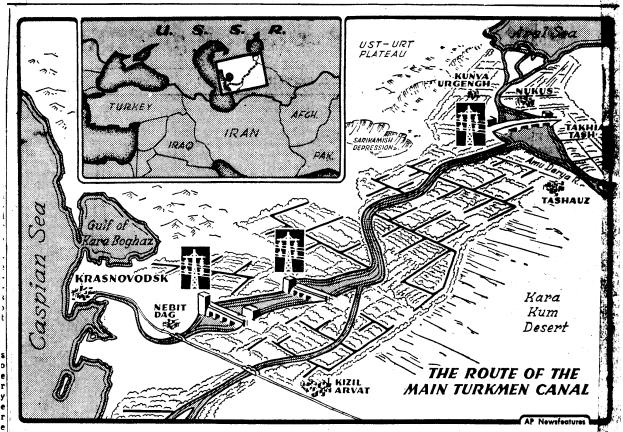
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## Russians Cutting a 700-Mile Canal Through a Desert

By EDDY GILMORE

MOSCOW—(AP)—Far away in miles of desert land. are building a 700-mile long canal areas.

d but slightly more than 50.

Thousands of people have been at work on it for months now, and since the Volga-Don Canal was finished, more engineers and workers have been shifted to the Turkmen.

S. Kalizhniuk, construction director of the huge project, reported the labor tempo is being stepped up. Last year, he said, the output per worker constituted 140 per cent of c-the norm—this year it has reached 161 per cent.

A worker's norm—what he is expected to accomplish in a regular working day-is established beforehand. He is encouraged to better this if he can and never to fall ben. hind it. The norm is considered 100, o if workers are now doing 161, se that's quite a labor speedup.

The new canal has several objectives, all sweeping in scope and magination:

Taming of the treacherous ters of the Amu Darya River. Opening of new lands to agric

distant central Asia, engineers | Electrification of large Asian more than 30,000 miles in length. | lion acres should bring at

only 103 miles long and the Panama pian, the Amu Darya, only one-fifth the irrigation system is at work, ects working they estimate canal is the Main Turkmen Canal, 120,000 acres of the desert and the running from Takhia Tash, near the Caspian plain and will bring water. The Main Turkmen Canal, 120,000 acres of the desert and the agreat degree.

With its innumerable lateral ir-

spreading branches, it will total said that the irrigation o

sthrough the fiery sands and blistering suns of the Kara Kum desert. Installation of a great transportation system whereby freight can whome huge the project is when you remember that the Suez Canal is only 103 miles long and the Papager.

When the canal is completed and form these relectricity in this part of Asia than by tractor.

When the canal is completed and form the Soviets get the standard of the first part of the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the raw cotton output, an incomplete the five years time the doubt tions at the various dams along the the five years time the doubt tions at the various dams along the the five years time the doubt tions at the various dams along the the five years time the doubt tions at the various dams along the five years time the doubt tions at the various dams along the five years time the doubt tions at the various dams along the five years time the doubt tions at the various dams along the five years time the doubt tions at the various dams along the five years time the doubt tions at the various dams along the five years time the

of whose waters are now used for the Soviet Union's annual cotton three million acres of desert viring to the Main Tunkmon Const.

The Main Turkmen Canal is a ture. sprawling foot of the Aral Sea to to more than 16 million acres of center link in the USSR's big irri-Krasnovodsk on the Caspian Sea. land in this area.

Lavrentry Beria, deputy chair- so for a long time,

Irrigation of thousands of square rigation installations, with its man of the Council of Mini

Several large hydroelectric sta- some five years time the doub

When the canal is completed and and the connection irrigation about 16 million will be good

> The Kara Kum is one of the deserts in the world and ha

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By a Student of Eastern Europe

under what is described in the Soviet generated by the new power stations, press as "The Projects of Communications as "The Projects of Communications" are seven in number: two of the seven times cheaper than that of stations nism" are seven in number: two on the Volga, near Kuibyshev and Stalingrad, with a capacity of 2,000,000kw. and 1,700,000kw. respectively; one each on the Dnieper at Kakhovka and on the Don at Tsimlyansk (250,000kw. and 160,000kw.); miles in length, will bring water to and one on the Amu-Darya and two and one on the Amu-Darya and two on the Turkmenian Canal, in Central Asia, with a total capacity of 100,000kw. According to Soviet estimates the combined annual outestimates the combined annual output of the two Volga power stations working on coal or oil.

The benefits to be derived from the projects by agriculture are perhaps of irrigation canals, more than 2,800 working on coal or oil.

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tons of coal, and 60.000.000 tons of oil.
The most recent Soviet production figures suggest that Soviet industry has now gone about half of the way towards attaining these goals. To reach them, that is to double the production of these materials within the next ten years, would require as momentous an industrial momentous and follows a momentous and follows and follows a momentous and follows and follows and follows a momentous and follows and follows are momentous and follows and momentous an industrial revolution as any the world has known.

## SIBERIA'S SHARE

The basis of this revolution—or rather of the "qualitative change" in "revolution" must no longer be used by Soviet economists with reference to future developments in their own country—is to be electric power. The amount of electric power which would be required by an industrial organisation capable of producing these vast masses of raw materials is estimated to be in the region of 250 000 million kilowatt bours per 250,000 million kilowatt hours per annum. Against this the Soviet Union produced in 1951 about 100.000 million kilowatt hours, million kilowatt hours, 100.000 million kilowatt hours, while the new power stations which are part of the projects, and others which are being built independently, can be expected to yield about 50,000 million kilowatt hours after 1957, when the projects are to be completed. This still leaves Soviet industry about 100,000 million kilowatt hours short of its estimated requirements at the end of the next. requirements at the end of the next ten years, and it is to be expected that before long new hydro-electric schemes on a scale even greater than those already announced will be made public. The Soviet Ministry of Power Stations is, in fact, now studying a plan for the diversion southward of two of Siberia's largest rivers, the Ob and the Yenisei, which would bring much-needed water to the deserts of Central Asia and provide "white coal" for more and bigger hydro-electric stations in a region of vast and unexplored schemes on a scale even greater than region of vast and unexplored

industrial opportunity.

The more immediate industrial significance of the projects is evident significance of the projects is evident from the fact that, in addition to directing 50 per cent of their joint output to the Central (Moscow) Region, the Kuibyshev and Stalingrad stations will supply respectively 24 and 28 per cent of their power to industrial objects in the Volga region.

power stations to be built be made possible by the energy working on coal or oil.

will, at approximately 20.000 million kilowatt hours, equal that of France and exceed that of Italy.

How does this fit into what is known about Soviet plans for industrial expansion? In 1946 Mr Stalin said in an election speech in his Moscow constituency that Soviet industry should aim within the next fifteen years or so at an annual production of 50.000.000 tons of iron, 60.000.000 tons of steel, 500 million —an area roughly equal to that tons of coal, and 60.000.000 tons of oil.

The most recent Soviet production by the production of 50.000.000 tons of oil.

Switzerland, and Denmark—will be in Switzerland, and Denmark—will be in

Soviet economists claim that the newly irrigated lands will provide food, clothing, and living facilities for 100 million people—and still have something to spare. The major part of this area, particularly in European Russia, has hitherto been used for the cultivation of grain crops. This was not economical from the point of view of an enlightened agricultural policy, because the climatic conditions in the the Soviet economy, since the word of an enlightened agricultural policy, "revolution" must no longer be used because the climatic conditions in the area, such as the abundance of sunlight and warmth, were more suitable for the cultivation of industrial crops yielding a higher cash return, such as cotton and sugar beet. This, however, cotton and sugar beet. This, however, was prevented by the lack of water. It is now proposed to reduce the area under grain crops in the Russian and Ukrainian irrigated lands from 75 per cent to about 40 per cent of the total, increasing at the same time their average yield to 39 bushels per acre. The reduction of the area under grain, combined with prigation and the combined with irrigation and the introduction of new agricultural techniques, is expected to result in the doubling of the total grain yield in the lands affected.

At the same time, over 3.500.000 acres, both in Europe and in Central Asia. are to be put under cotton, bringing the Soviet Union's total cotton yield to about 7.500.000 tons, which would double the figures for 1950.

It should, perhaps, be emphasised that the information on which this article is based comes from Russian article is based comes from Russian publications, many of them of a propaganda nature, and that in many cases the figures quoted here are hopeful estimates made by Soviet economists. While there is no reason to doubt that the scope of the projects is truly gigantic, their economic effects may fall somewhat short of expectations. However, the change in the distribu-tion of Soviet industry and agriculture, which will be among the most important consequences of the projects, will not be affected by small

failures here and there.

For the next few years Soviet industrial resources will be strained to the utmost—as they have been since the Revolution—in manufacturing supplies for the projects and for other purposes. To say this, however is not to support the argument industrial objects in the Volga region. This huge accretion of power to these areas (whose industry in 1940 consumed over 20 per cent of all coal produced in the Soviet Union, and have far-reaching effects on the geographical distribution of Soviet Union's population of some two hundred millions now lives in the Volga basin. The economic than the Volga basin. The economic the Kuibyshev power station—the Approved For Release 2011/08/29.

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