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Form 45,300,000 setric tons in 1862 to 58,200,000 tons in 1960, an increase which approximates the present production of Great Britain. The USSE obviously intends to obtain sufficient steel to support the over-sill industrial growth it has projected for 1958-1960. Although the industry' expansion is not a direct preparation for sar, it greatly increases the USSE's par potential. These points as littly to be not in view of the abundance of the materials reserved, the expansions gained during previous five-year plans, and the apparent sargine of matery built into the Bixth Five-Year Plans. (SECRE) (Propaged by OER)

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The Sixth Five-Year Plan for the Soviet iron and steel industry provides for the largest expansion program yet realfind during a five-year period. Production of crude steel is coheduled to rise from 45,200, 000 metric tons in 1955 to 68, 500,000 in 1960, an increase which approximates the present production of Great Britain. Of the 23,000,000-ton increase to be obtained, the regime relies on continuing increases in production efficiency to furnish nearly inli.

brought into production largely at existing plants. However construction is planted for Siberia and Hazakhstan, where, on the basis of the region's coal and iron ove reserves, the USSR plans to develop over the next 10 to 15 years an iron and steel center ranking third in size to the Ukrains and Urals. These new latter areas are account for 70 to 75 percent of the Russian iron and steel output.

The USSA obviously intends to obtain sufficient steel to support the over-all industrial growth it has projected for 1958-1980. Although the in-

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dustry's expansion is not a direct proparation for war, it greatly increases the USSE's exwar potential. The USSE is already the morid's second largest steel producer. In 1855, production of crude steel was 17 percent of world output, 43 percent of that of the United States, and 72.5 percent of total production in the Sino-Soviet bloc.

The industry's major production goals are likely to be met in view of the abundance of raw materials reserves, the experience gained during previous five-year plans, and the apparent margins of safety built into the first Five-Year Plan with respect to the production of iron ore, pig iron, and crade and finished steel.

Since the Seviet industry consistently operates at capacity, the production of 23,000,000 metric tons more crude steel in 1965 than in 1965 will require an expansion of similar magnitude in capacity. A concensus of estimates indicates that in the same period about 20,000,000 metric tons will be added to the present 116,000,000 metric tons of crude steel capacity in the United States, on this basis



the USER's planned acpacity in 1960 would equal 52 percent of that in the United States as compared with 41 percent in 1955. In absolute figures the USER's capacity will be comparable with that of the United States in 1951.

Rolled Steel - The planned increase of ities metric tons in the annual rate of total rolled steel production inciudes a major expansion in fx flat rolled steel products. Societ industry has long been deficient in these products, which are used largely in the production of consumer goods. Production is to be increased by installing a number of contimuous sheet and strip mills. Soviet technicians have had little experience in building this type of mill, the first unit of Ecviet design and manufacture having been installed only last year. Previously, the only milis of this kind in the USSR were two units purchased in the United States in the 1930's and one that was removed from Germany. The Soviets say they will raise the prepertion of flat-rolled products during the next several fiveyear plans to 40 to 45 percent of total rolled steel production,





Similar to that in the United States. It is doubtful, however, if this will be done unless consumer goods industries are assigned a such higher priority than they now receive.

Raw Materials - To support the expansion in steel output the USSR plans substantially increased production of iron ere and other ray materials. ore production is scheduled to increase from 71,960,000 metric tons in 1955 to 114,300,000 metric tons in 1960. Such of the planned new iron ore capacity requires the provision of beneficiating facilities. The Soviets expect that by 1960 a-AND two thirds of the commercini grade ore supply will be so processed, as compared with one third in 1955 and about one sixth in 1950. Although born increased of necessity, th beneficiating reflects anim small decline in the quality of the USSR's prot, which are generally of good quality and abundant. Europeaners, beneficiating has positive benefits as increasing furnace productivity and lowering the rate of coke consumption. Similar measures are being taken by the US steel industry, although not on as

broad a scale.



Technology - Russian iron-Steel-making and starts technology in general is on a par with that of leading Western mations. In putting new technological devolopments into practive, however, the USER has concentrated on certain segments of the industry and on a limited number of plants. Esphasis has been put on increasing the production of pig iron and crude stock; considerably less attention has been given to rolling mill and finishing line technology.

Major improvements have thus far been installed in a limited number of plants. The tron- and steel-making departments of the Engultogorsk and Enzuetak Combines, where advanced technology has been introduced, are as efficient and productive as the best units in the United States. Industry-wide productivity rates, however, are considerably lower than in the United States, where crude steel output per worker in 1955 was 163 tone, as compared with only 68 tons in the USSR. large opportunities for improvement here make possible long strides toward attaining the called boily Men officiency (gorls set forth in the plan.

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Low labor productivity and the extensive processing required for ray materials in the USER suggest that Soviet steel production is no less expensive than in other major steel-producing countries. Belative to the United States, the principal advantage competitive ask of the Boriet iron and steel industry appears to lie in its low wage rates. Soviet emphasis on use of advanced techniques to incrosso production from existing facilities appears to be a considered policy aimed & expanding output with a minimum of outlay. In some instances this will result in higher operating costs than would have been the case had additional facilities been provided.

Outlook for Plan Fulfillment - As in past plans major iron and steel production goals set for 1980 an likely to be mot despite the probable underfulfillment of certain supporting progress in the Five-Year In the past this industry Plan. has consistently failed to complete its planned modernization and new construction programs. Blast furnace efficiency, schedwied to increase 30 percent in 1951-1955, improved only 22 percont. serious failures



during that period were shortfalls of 20,000,000 tons in the construction of new iron ore capacity and 4,800,000 tons (25 to 35 percent) in the installstion of new rolling mill capneity. Such failures have not in the past prevented the industry from attaining planned increases in production. Cutput goals have been met by schedoling maximum production from new and existing capacity and by contiming (in service) inefficient facilities that otherwise would have been retired.

plans appear to incorporate provisions for replacing obsolete facilities and possibly for creating reserve capacity—a cushion which could be abandoned if production targets are endangered. More additional capacity is provided for in the Plan than would be required to meet the 1990 output goals for pig iron, crude steel, and rolled steel. In the case of crude steel, for example, the in capacity combined increase ins expected from increased efficismey and from new facilities is 26,600,000 tons-3,600,000 tons more than the planned increase in the annual rate of production.



If planned increases in efficiency materialize and if construction schedules are not completely, which appears unlikely on the basis of past performance, the industry will be in a position to meet production guals while replacing obsolete units and creating some reserve expacity. However, a shortfall of nearly 15 percent in the planned expansion of crude sted capacity, aithough preventing the successful achievement of retirement and reserve sime, would not ber the possibility of meeting production goals. (SECURE) (Prepared by CHR)

