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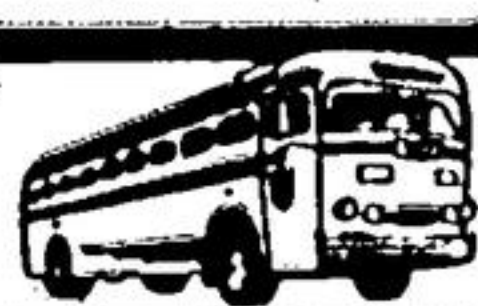
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Hydro Power Picture Brightest in 9 Years

The brightest Ontario Hydro power picture since the end of World War II was reported in a year-end review of operations. The Commission, according to preliminary figures, had a reserve capacity in its Southern Ontario System of 13.7 per cent at the time of the December primary peak demand — the highest in nine years. "This," says the chairman, "is a result of Hydro's tremendous expansion program and the placing in service during 1954 of seven units — three more than originally planned for the year — at our new Niagara Project, together with good water conditions in most areas of the Province. As we enter 1955, Hydro can look forward to the safest period in terms of reserve of power since 1945.

"In 1945, the Commission had no margin between power demands and available supplies to meet the growing power requirements, of the Province's rapidly developing industrial might," said the chairman. Three years later, the effect of extreme low water conditions and mounting electrical demands gave Hydro a year of critical power shortages.

"Considering that in 1953 we were able to overcome a similar low-water supply situation on the Ottawa River without any major power cuts and today have achieved a nearly 14 per cent power reserve, is a wonderful tribute to the success of our labor-management team, contractors and suppliers in pushing through the greatest power expansion program in the history of the commission," he added.

While Hydro's 1954 activities on the power front were also highlighted by the official start on the St. Lawrence Power Project, near completion of a two-unit addition to Pine Portage Generating Station on the Nipigon River, and rapid progress at Manitou Falls Generating Station on the English River, it was the outstanding headway on the Sir Adam Beck Niagara Generating Station No. 2 which helped place the commission's Southern System in its present greatly improved position.

On December 21 last, for example, the combined output of Hydro's two giant Sir Adam Beck plants soared to an all-time high of 1,413,000 horsepower. On this day, the seven in-service units at the Sir Adam Beck No. 2 plant produced 811,000 horsepower — 111,000 horsepower in excess of their combined installed capacity, while the older Sir Adam Beck No. 1 station delivered 602,000 horsepower, which exceeded its installed capacity by 77,000 horsepower.

The chairman stated that the excellent flow of water through the tunnels and canal systems associated with the operation of the two plants was responsible for their increased power production. This additional output came as Hydro experienced unprecedented power demands on its Southern Ontario System. Throughout November and December, primary peak demands recorded new highs culminating

on December 21 in an all-time peak of 4,178,000 horsepower.

"The ability of our hardworking and efficient construction men and engineers at the Sir Adam Beck No. 2 plant to exceed this year's original objective of four units enabled the Commission to take care of the record peak demands," the Chairman stated. "The demands were met despite the fact that two 134,000 horsepower units at the Richard L. Hearn Generating Station, Canada's largest fuel-electric power plant, were out of service owing to mechanical damage."

The Chairman paid warm tribute to the wonderful cooperation which Hydro has received at Niagara from its contractors and suppliers, including Raynor-Atlas, Perini Walsh, Canadian General Electric, Canadian Westinghouse, Dominion Engineering, Horton Steel Works, English Electric, Canadian Bridge and many other firms.

Power from the huge \$343,742,000 Sir Adam Beck No. 2 plant opened officially last August 30 by her Royal Highness the Duchess of Kent, was initially delivered in April this year, less than three and one half years after construction began. The present objective calls for the installation of five more units by mid-summer of 1955 which will mean the initial 12-unit stage will be completed about one year ahead of original estimates. Four more 100,000 horsepower generators will be added as required which, together with the pumped storage scheme, will give the plant an ultimate installed capacity of 1,828,000 horsepower.

With the speeded-up construction schedule in effect, the Commission hopes to be able to maintain a satisfactory margin in Southern Ontario between power demands and available supplies until 1958 when the first units of Hydro's 1,100,000 horsepower share of the St. Lawrence Power Project come into service. Substantial completion of the entire power phase is expected in 1959.

St. Lawrence Power Project Advances
Sought for nearly 40 years, the historic and vital St. Lawrence Power Project received final authorization on June 7th, 1954, when the United States Supreme Court upheld the right of the Power Authority of the State of New York to develop the power potential of the river in joint partnership with Ontario Hydro. Two months later, on August 10, the project was officially begun with international softening ceremonies were held at Cornwall, Ontario, and Massena, New York.

Together, these two entities are building the vast \$400 million project. They will share each one exception, the construction costs and each will be entitled to one-half of the installed capacity of 1,100,000 horsepower for each entity. The exception is the purchase, installation and operation of mechanical and electrical equipment for the power house to be handled and paid for separately by each entity.

Progress on the project during 1954 included:
1. The completion of the first stage of the 1.5 mile long canal, all the north channel of the river between Sorel and Bouché Island above the power house, and the start of a second canal, 2.25 miles downstream.

2. Start of two tunnels under the 14-foot Cornwall Canal to provide ready and rapid access to the powerhouse site for construction equipment, men and supplies — opposite Hydro's project office.

3. Pressing forward on the new project office, located one and a half miles west of Cornwall, and the highly important field project hospital.

4. Calling of tenders November 30 by Hydro for crushed rock or crushed gravel and sand to be used as concrete aggregate in the construction of the Canadian section of the powerhouse and associated work in the vicinity of Cornwall; and the reviewing by the Commission of tender bids for the supply and installation of the powerhouse generator units.

Relocation and Rehabilitation
On August 17th, Hydro presented its community planning and rehabilitation proposals to officials of the communities to be affected along a 4 1/2 mile stretch of the north shore of the St. Lawrence River.

An agreement was signed on November 20th between Hydro and Caldwell Linn Mills covering the purchase by Hydro of the company's existing plant and dwellings in Iroquois and Matilda Township. To the residents of the area the agreement gives assurance that the Caldwell organization will not only continue but will expand its operations, thereby creating additional employment.

Surveys were completed in Iroquois and Morrisburg, and are planned for other communities in the St. Lawrence area which are to be relocated, to determine the residents' feelings regarding their future location.

Two Major Projects in Northwestern Ontario

In Northwestern Ontario, where power demands continued to mount with the development of new mining areas, excellent progress was made on two important projects. A two-unit addition to Pine Portage Generating Station on the Nipigon River was nearly completed, which will raise the plant's dependable peak capacity to 135,000 horsepower. Along the English River, construction on the 55,500-horsepower Manitou Falls Generating Station proceeded on schedule, with completion of the project expected in 1956.

Niagara Remedial Works
During the year, considerable pro-

gress was reported on the \$17,500,000 Niagara remedial works program. It is being jointly undertaken by Hydro and the Corps of Engineers, US Army, in accordance with terms of the Niagara Diversion Treaty signed in 1950 by Canada and the United States. The program is designed to preserve the scenic beauty of the Falls, while contributing to the most effective use of water for power purposes.

Present construction by Hydro is concentrated on the control structure about two miles above the Falls. When completed in 1957, this dam-like structure will project about 1,500 feet into the Niagara River from the Canadian shore and will be equipped with 13-bascule type gates. Its function will be to control the level of water in the Chippawa-Grass Island Pool area, the site from which the Sir Adam Beck No. 1 and No. 2 plants are drawing their water.

Excavation work along the Canadian flank of the Horseshoe Falls will commence in 1955 after similar operations on the Goat Island flank are completed by the United States agency. These undertakings will produce an unbroken crestline and the desired distribution of flow over the Falls, thus arresting erosion. At the same time, earth and rock will be used to fill in the ends of the Horseshoe Falls to eliminate incidental flows of water over the extremities of the crest.

Rural Program Progresses
Rural expansion, which has been an important phase of Hydro policy for more than a generation, continued throughout the year with the result that nine out of ten farms in the Province are now electrified. The 1954 rural program to December 1st, has included the net addition of 23,880 customers and 979 miles of primary line.

The extension of rural facilities in recent years has meant that the net addition of rural customers between 1945 and December 1, 1954 was greater than during the entire previous 24 years of rural service. At the beginning of 1945, Hydro served 144,218 rural customers over 20,437 miles of rural line. As of December 1st, 1954, the number of rural customers had increased to 388,276, more than 2 1/2 times the 1945 figure, and they were being served by 42,563 miles of rural line.

At the same time, Hydro's huge program of Frequency Standardization, involving the changeover of some 940,000 customers in Southern Ontario's "25 cycle island" to 60 cycles, has made rapid progress. As of October 1st, 1954, a total of 452,954 customers of all classes had been changed over. As well, a total of 2,789,909 items, or about 52 per cent of the estimated total, had been changed from 25 to 60 cycle operation.

Capital Expenditures
The magnitude of the Commission's all-system expansion program during the past three years is reflected in the fact that from November 1st, 1945 to November 1st, 1954, Hydro's capital expenditure amounted to \$1,099,355,000. This includes the undertaking of 16 new power sources, 14 of which are now in service.

Don't forget the RODE Form to be held this Friday evening, Feb. 11, in the Rose Room.

Burma Fashions



At International Labor Organization Headquarters in Geneva, two young staff members admire the first screen printed textiles to come from the looms of small Burmese producers. Textile production by handicraft workers was made possible through the cooperatives which a United Nations-ILO technical aid team helped to set up at the request of the Government.

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