

and Elliot Lake and Bancroft in Ontario. All four areas resulted from reports made by the Geological Survey. For the greater part, the mining operations themselves are conducted by private companies supported by export contracts that would have terminated in 1962 but have been revised so that some will be stretched out, without increase in total supply, to 1966. The revision of the contracts has also closed down the less economical mines of private companies. Only Eldorado and one other of the original six companies in Beaverlodge are still in operation, four of the original eleven at Elliot Lake, and two of the three at Bancroft. A refinery run by Eldorado is located at Port Hope on the northern shore of Lake Ontario. The Research and Development Division of Eldorado, together with the Mines Branch of the Department of Mines and Technical Surveys, also makes important contributions to the solution of recovery problems, a noteworthy example being the development of the sodium carbonate leaching process for the Beaverlodge uranium ore-processing plant, which avoided the shipping of large amounts of acid to that remote area.

Atomic Energy of Canada Limited (AECL) has an eleven-man Board of Directors, including individuals from private industry, public and private power companies and the universities. The Company's major plant is near Chalk River, Ont., and its Head Office and Commercial Products Division in Ottawa. During 1960 and 1961, contracts were awarded for the construction of AECL's new research centre at Whiteshell, Man., and site development is under way. Early in 1958, a Nuclear Power Plant Division was established in Toronto, and took over responsibility of directing the NPD-2 project. This project, a nuclear power demonstration plant to produce 20,000 kw. of electricity, is now being commissioned at Rolphton near the Chalk River establishment; its design and construction were carried out in collaboration with the Canadian General Electric Company Limited and The Hydro Electric Power Commission of Ontario. The Nuclear Power Plant Division of AECL, with the assistance of Ontario Hydro, is also designing and constructing a full-scale nuclear power plant, known as CANDU, which will supply 200,000 kw. of electricity to the Ontario Hydro system. This plant is being built at Douglas Point near Kincardine on Lake Huron. By agreement, Ontario Hydro will purchase the plant when it is in satisfactory operation. An Advisory Committee on Atomic Power Development keeps all other utilities fully informed of the progress being made. This Committee, which was set up by the Government in 1954, meets periodically at Chalk River to assess the economic prospects of nuclear power throughout the country.

Because of the great pace of technological development in nuclear power throughout the world, AECL devotes a major effort to collaboration with many organizations. These include industrial firms and the scientific and engineering departments of universities in Canada and, through foreign government agencies and several international organizations, many technical groups in other countries. For example, the Canadian General Electric Company has been contracted to carry out the design and development of an organic-cooled experimental reactor, and it seems likely that this will be the first reactor to be built at the Whiteshell Nuclear Research Establishment. AMF Atomics Canada Limited and CGE are AECL's chief contractors for fuel element fabrication, and other work related to Canada's nuclear power program is carried out in collaboration with Orenda Engines Limited, Canadian Westinghouse Company Limited, Montreal Locomotive Works Limited and Montreal Engineering Company Limited. In general, AECL's policy is to stimulate the interest of private industry in the development of nuclear power so that these firms can take over construction of power plants when the time arrives, leaving AECL free for fundamental studies and developing new reactor concepts. AECL also lends general support to the nuclear and related studies of Canadian universities and lets contracts to the universities on specific problems