

the construction of many new hydro schemes upon inland fisheries, recreational and other land use and local climate will require careful study in the years to come.

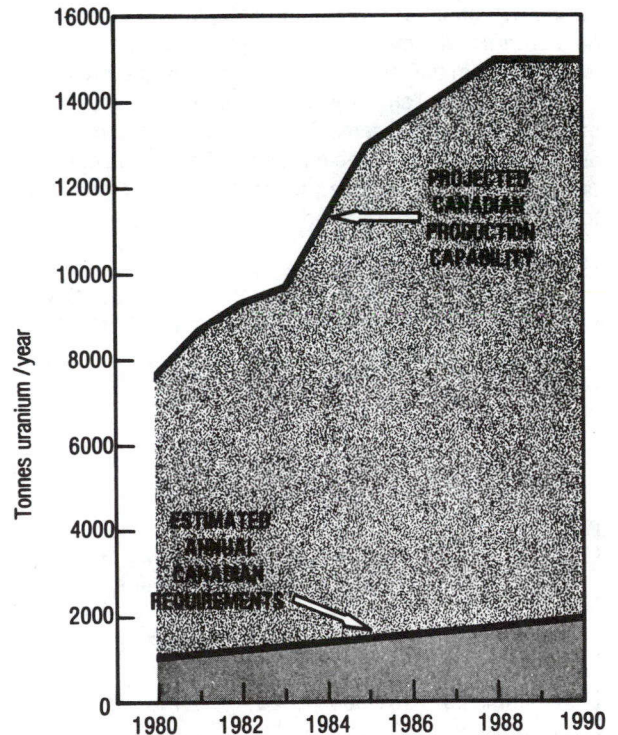
Current estimates suggest that a further 104,000 megawatts of hydraulic power is technically feasible to develop, more than double the capacity exploited today. Of this amount, perhaps 63,000 megawatts is economically developable. The present distribution of existing and potential hydro-electric power development in Canada is summarized in Table 3-6. It is apparent that the ultimate potential of this energy source is quite limited by comparison to many other energy forms, and that Canada's hydraulic resources will have been largely exploited by the middle of the 21st century.

**4. URANIUM RESOURCES**

Canada has extensive uranium resources. Uranium mining is underway in Ontario and Saskatchewan, and significant additional deposits are known in these Provinces and in Newfoundland, New Brunswick, Quebec, British Columbia and the Northwest and Yukon Territories. Table 3-7 gives the most recent published estimate

of Canada's mineable uranium resources. Discoveries since 1979 have added significantly to these totals and rising prices will result in the conversion of more uranium resources to reserves. Figure 3-11 shows that Canada's uranium production capability far exceeds forecast domestic requirements, explaining our major export position in this energy commodity.

Figure 3-11: PROJECTED CANADIAN URANIUM PRODUCTION CAPABILITY COMPARED WITH ESTIMATED ANNUAL URANIUM REQUIREMENTS



Source: Canada, Department of Energy, Mines and Resources, 1980g, p. 13.

Table 3-7: CANADA'S MINEABLE URANIUM RESOURCES IN 1979

Unit: Thousands of metric tons of elemental uranium.

Mineable at Uranium Prices of	Uranium Contained in Mineable Ore <sup>(a)</sup>		
	Measured	Indicated	Inferred
Up to \$130/kg of Uranium <sup>(b)</sup> .....	73	157	238
\$130 to \$200/kg of Uranium <sup>(b)</sup> .....	4	25	90
<b>TOTAL</b> .....	<b>77</b>	<b>182</b>	<b>328</b>

<sup>(a)</sup> The uranium recoverable from the ore will be somewhat less because of milling losses.

<sup>(b)</sup> The dollar figures refer to the market price of a quantity of uranium concentrate containing 1 kilogram of elemental uranium.

Source: Canada, Department of Energy, Mines and Resources, 1980g, p. 5.