

- (e) Further development of small pyrolysis units;
- (f) Investigation of effects of changing the flows of material that supply the nutrients essential to agriculture;
- (g) Identification of immediate opportunities for installing large or multiple unit facilities in the developing countries using present technology.

Hydro-electric Power

There is little doubt that there will be a continuing and even expanding requirement for large hydro stations to feed urban, industrial and rural loads and thereby to assist in displacing hydrocarbon fuels. However, small-scale plants can also have an important role.

Canada is already routinely supplying for world-wide use small plants in the 1 - 10 MW range and is now on the threshold of having 100 - 1,000 KW mini or microhydro plants available.

Scope exists for machines to be designed for which maintenance requirements are low and a local manufacturing capability could be readily developed. The cost of extensive front-end studies to install small machines of this nature cannot be justified. Consequently Canada is investigating the possibility of setting up small hydro "satellite" projects in developing countries where large hydro projects are already underway and qualified staff is available. Installations may be supervised by N.G.O. groups, or university student volunteers working with local personnel under occasional guidance from the professionals on the larger projects.

Resources data in the form of hydrological and climatological surveys will continue to be needed and this information will form the basis for both large and small scale hydro power initiatives in the context of national energy planning. It will also allow water management and environmental aspects to be taken into account.

Wind Power

Many locations in the developing world are known to have the climatic conditions and local situations suitable for the installation of wind powered machines for pumping and mechanical or electric power drives. These types of projects do not seem to have been given high priority in many developing countries. While wind-powered machines are still in a state of development, there is