

One of Pampev's major clients to date is yet another example of an innovative company which has developed an international reputation, this time for expertise in the planning and construction of hydro-electric dams.

The Société d'énergie de la Baie James (SEBJ), a wholly-owned division of Hydro-Québec, was founded in 1971 to develop hydro-electric resources in the James Bay region, an area of 350,000 square km representing one-fifth of the entire Province of Québec.

Its specific mandate was to plan, direct and implement all engineering and construction work involved in the multi-billion dollar La Grande project which was launched after 20 years of intensive study and which, by its very nature, saw the creation and perfection of new technologies.

One of SEBJ's primary concerns throughout, in addition to all technical and economic aspects of the project, was its impact upon the

environment and numerous measures were adopted to minimize the harmful effects brought about by such massive excavation and construction.

These included selective deforestation, building mini-dikes, extensive seeding in certain wildlife areas, massive planting of shrubs and seedlings, clearing certain sections of the reservoirs to ensure safe navigation, archaeological excavations to safeguard historical heritage sites, and creating clearways and access ramps to ensure that hunting, fishing and trapping by Native people could continue unimpeded.

Visitors to the site from around the world now call upon SEBJ to learn more about their expertise and planning methods and that of their numerous partners. Expertise which not only ensures that construction deadlines are met but, in some instances, even advanced while respecting quality and cost factors.

HIGH-TECH

For its part, **Silanis Technol-**

ogy, established in early 1992, has developed the world's first computer-based product to provide complete electronic revision and approval capabilities for PC CAD systems.

This system, incorporating pen-computing and imaging technology, enables users and managers of drafting and engineering departments to modify, track and sign off their drawings electronically and still preserve the security associated with paper-based signatures.

As a result, hard copy drawings and forms are eliminated and document handling costs are reduced. More significantly, document approval cycles can be shortened thereby eliminating large cost overruns due to missed project schedule dates which, for some companies, can amount to millions of dollars annually.

Revolutionizing the world of inspection systems, particularly in the aeronautics sector, both civil and military, is **UltraOptec Inc.** In late 1993, this specialized high technology optical and electronic instrumentation company signed a several-million-dollar contract with the Sacramento Air Logistics Centre of the USA Air Force Base in California, for the implantation in a production environment of its unique Laser Ultrasonic Inspection System.

In essence, this technology, a first in the world developed with the collaboration of the Industrial Materials Institute of the **National Research Council of Canada**, enables the control of parts and structures made from composite materials, such as carbon-epoxy and others, at either the fabrication or maintenance stage.



Six million alders will be planted during Phase II of La Grande project from 1992 to 1997.

Plus de six millions d'aulnes crispés seront plantés entre 1992 et 1997 durant la phase II du complexe La Grande.