

Energy housing (Cont'd from P. 2)

ator on top of the Square burns the building's waste paper, generating heat which provides hot tap water for the entire building. A unique clause in the leasing agreement requires tenants to give all waste paper to the building manager to feed this system.

In order to maximize comfort and energy savings, a central computer orchestrates temperature and humidity adjustments. Every 20 minutes the computer monitors the entire building with the aid of 800 strategically-located sensors.

Energy consumption at Gulf Canada Square is expected to be slightly below 10 kwh a square foot a year compared with 45 for the average office building.

Other energy-conserving buildings

Many Canadian developers are applying energy-conserving principles in a variety of imaginative ways. The Cadillac Fairview Corporation has opened a retail mall (containing 170 stores) in St. Bruno, Quebec, which has extremely low winter heating requirements due, in part, to a ventilation system designed to pick up heat from store lights. Natural light from skylights illuminates the mall by day and photo-cells automatically turn on artificial lighting when needed.

Bata Footwear Ltd. has incorporated into its factory in Picton, Ontario as many energy-conserving elements as possible to determine which of them can be used in other Bata factories world-wide. Fuel consumption has been reduced by 90 per cent, largely due to an efficient heating and distribution system. Heat reclamation from the factory's air compressor provides 40 per cent of the heat needed.

On a Manitoba Indian reservation, designer Dudley Thompson has created a dwelling which combines the traditional Indian "Earthlodge" with modern intermediate technology. The lodge is essen-

tially buried in a hillside for low-cost insulation, and is open to passive solar heating on the south side. Although building underground for commercial and industrial complexes is common, underground residential housing is a new phenomenon. John Mix is an Ontario designer who has employed this type of design to produce what he calls a "solar cave with a view" for clients. Riverheights Subterranean School in Brandon, Manitoba is another successful working model. Not only can using the earth to insulate save as much as 50 per cent on energy needs, most designs result in reduced construction and maintenance costs.

News briefs

The spring session of the Manitoba Legislature opened on February 20. The speech from the Throne outlined a plan to revive the economy by exploiting provincial hydro resources but gave no indication that the freeze on construction of northern hydro projects is about to be lifted. Included in the initiatives were: creation of an energy authority to handle a wide range of energy problems, promotion of the use of gasohol and other renewable resources through tax incentives and continuation of the five-year freeze of hydro rates.

The Alberta Energy Resources Conservation Board has approved an application by Esso Resources Canada Ltd., a unit of Imperial Oil Ltd. of Toronto, to improve recovery at the Judy Creek oil field through carbon dioxide injection. Esso plans to inject about two million cubic metres of carbon dioxide a day into the formation, 200 kilometres northwest of Edmonton, to increase pressure and improve oil recovery. The company said the injection system, being tried in Canada for the first time, could result in a recovery rate of 73 per cent.

Major-General John MacQueen, the man largely responsible for equipping and mobilizing Canadian Forces during the Second World War, died recently in Ottawa at the age of 86. MacQueen, described as a brilliant military administrator, served as Deputy Quartermaster General at Canadian Military Headquarters in London, England, between 1941 and 1945. He was named a Commander Order of the British Empire in 1943.

Both the Nova Scotia and Newfound-

land Legislatures opened on February 28. The Nova Scotia Speech from the Throne promised a new petroleum and gas act to guarantee maximum benefit to the province from exploration work and restated the claim to ownership of offshore petroleum resources. It promised property-tax rebates and rent supplements for senior citizens as well as a long-range housing strategy which includes an end to the moratorium on public housing. The Newfoundland Speech from the Throne expressed determination to alter a contract that lets Quebec buy Labrador power at bargain prices and to continue efforts to achieve control of fish stocks and offshore minerals.

The Prince Edward Island budget was introduced on February 28. The sales tax has been raised to 9 per cent from 8 per cent and the sales tax exemption has been lifted from cigarettes and soft drinks, effective February 29. Personal income taxes will rise by 2.5 per cent phased in over 18 months, starting July 1. Finance Minister Lloyd MacPhail called for a 12.3 percent increase in spending in the coming year, to be offset by a 12.5 percent increase in revenue, resulting in a surplus of \$776,400.

The Export Development Corporation (EDC) will provide a \$20-million (U.S.) line of credit to support the sale of Canadian railway equipment to Argentina. The loan, to Banco Nacional de Desarrollo (BND), an Argentine government agency, will finance the purchase by Ferrocarriles Argentinos of Canadian goods and services to re-equip and modernize that country's railway system. Emphasis will be placed on rebuilding the railway's locomotive fleet and repairing railway tracks.

Canadian newsprint production totalled 746,000 metric tons in November 1979, the Canadian Pulp and Paper Association said. Total shipments were 741,000 tons, up 3.2 per cent from a year earlier. Exports to the United States were 544,000 tons, up 9.8 per cent.

Ten-year-old Mark Cosens is pulling in more money than his dad — at the auction block, that is. Following his father's footsteps, Mark has entered the world of bidding and seems to have captured the distinction of being the youngest licenced auctioneer in Canada. Don Cosen said his son sometimes fetches higher prices on auction goods than he does and notes that the boy's novelty value is making Mark a celebrity.

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