

Federal, Provincial and Agency

INITIATIVES IN
DOMESTIC ENERGY CONSERVATION

CONSERVATION DE
L'ENERGIE RESIDENTIELLE

Initiatives des gouvernements
fédéral, provinciaux
et divers organismes

NOVEMBER 1981

NOVEMBRE 1981

AVANT PROPOS

- Les renseignements contenus dans ce document ont été recueillis jusqu'au 31 août 1981.
- Tout lecteur désirant des renseignements supplémentaires est prié de s'adresser directement à la personne-clée de chaque programme.
- Bien que ce document est aussi précis et complet que possible, toutes additions, révisions ou mises à jour seront incorporés dans une deuxième impression.

Prière de les faire parvenir à:

Michael Pine,
Division de l'Evaluation
des propositions,
Société canadienne
d'hypothèques et de
logement,
Chemin Montréal,
Ottawa, Ontario.

- La publication de ce recueil a été retardée par la récente grève des postiers. C'est pourquoi le processus a été accéléré en imprimant chaque fiche dans la langue d'origine.

Une future impression serait disponible dans les deux langues officielles.*

*La décision d'imprimer à nouveau se fera suite à une évaluation de l'utilité du document en tant qu'ouvrage de référence.

FOREWORD

- The information presented in this listing has been assembled and updated to August 31, 1981.
- Readers requiring information on the current status of any program should apply directly to the Principal Contact named for that program.
- While every effort has been made to ensure that the listing is accurate and comprehensive, additions, corrections or updated information will be included in future editions if sent to:

Michael Pine,
Policy Evaluation Division
Canada Mortgage and Housing
Corporation,
Montreal Road,
Ottawa, Ontario.
K1A 0P7

- Difficulties in assembling information resulting from the postal strike earlier in the year have delayed publication. In order to make this material available while it is still current, programs are presented in the language in which information was received. Future editions* will be made available in both official languages.

*The decision to reprint will be based on the demand for the publication, and an assessment of its usefulness as a reference source.

HOUSING/ENERGY RELATED PROGRAMS

KEY NUMBER	PAGE	CONSERVATION PROMOTION/INFO.	CONSERVATION CODES/STANDARDS	CONSERVATION, NEW HOUSING	CONSERVATION, RETROFIT	RESEARCH/DEMONSTRATION PROGRAM	RESIDENTIAL REHAB/CONVERSION	EMERGENCY REPAIR	OIL SUBSTITUTION/FURNACE CONVERT	RENEWABLE ENERGY	ENERGY AUDIT/EFFICIENCY TESTING	ASSISTED/INSURED LOANS	GRANTS/SUBSIDY
EMR-01	1			•	•	•				•			•
02	3			•	•	•				•			•
03	5	•									•		
04	8				•								•
05	11				•								•
06	13			•		•							
07	16			•		•							
08	18	•									•		
09	20					•			•	•			
10	22	•											
11	24					•				•			•
12	27								•				•
13	32								•				•
14	37								•				•
15	39				•				•				•
16	41								•				•
17	44								•				•
18	46					•			•	•			•
19	48	•				•			•	•			•
NRC-01	51					•				•			
02	53	•											
CMHC-01	55				•		•	•				•	•

HOUSING/ENERGY RELATED PROGRAMS

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NS-04	96	•				•							
05	98										•		
06	100									•			•
07	102	•									•		
08	104		•										
09	106			•				•				•	
10	108						•					•	
11	110			•		•	•					•	•
12	112				•		•					•	
13	114	•											
NB-01	116				•							•	
02	118			•	•	•						•	
03	120			•								•	
04	122				•		•		•			•	
QUE-01	124				•								•
02	126				•						•	•	
03	128						•					•	•
04	130				•		•					•	•
ONT-01	132	•			•								•
02	134	•			•								•
03	136				•							•	•
04	138					•							•

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Federal-Provincial Agreements:

Canada - B.C.	Canada - Manitoba
Canada - NWT	Canada - Ontario
Canada - Yukon	Canada - NB
Canada - Saskatchewan	Canada - Nfld

TITLE OF PROGRAM: Conservation and Renewable Energy
Demonstration Agreements (CREDA)

AGENCY RESPONSIBLE: Energy, Mines and Resources and
provincial counterpart in each CREDA

GEOGRAPHICAL LOCATION
OF PROGRAM: Ottawa/Provincial Capitals

OBJECTIVES OF PROGRAM: To develop and demonstrate promising
technologies, techniques and systems
which use renewable energy, conserve
energy or make its use more efficient.

ELIGIBILITY: Proposals for demonstrations are
welcomed from - industry, consultants,
associations, colleges and
universities, government departments,
municipalities, voluntary and
non-profit organizations and
individuals.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: This is a jointly funded Federal-
Provincial program for the
demonstration of energy conservation
and renewable energy technologies. The
following provinces and territories are
invited: BC, NWT, Yukon, Saskatchewan,
Manitoba, Ontario, NB and
Newfoundland. The program provides
funding for demonstrations in all
sectors of the economy including

residential. Government funding is intended to share the risk of the demonstration.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCY:

Federal-Provincial Agreements,
Provinces as noted.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$28 million for all CREDAS FY 82-83
(Federal funds)

PROGRAM COMMENCED:

1979

PROGRAM ENDS: 1984

CURRENT STATUS:

On-going

COMMENTS:

These agreements cover conservation and renewable energy technologies across the whole economy. Domestic energy conservation is a small but important part.

PRINCIPAL CONTACT(S):
(Federal)

Dr. P.B. Lumb
Technology Division
Conservation and Renewable Energy
Branch

ADDRESS(ES):
(Federal)

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Conservation and Renewable Energy
Demonstration Program in PEI.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION
OF PROGRAM: Prince Edward Island.

OBJECTIVES OF PROGRAM: To develop and demonstrate promising
technologies, techniques and systems
which use renewable energy, conserve
energy or make its use more efficient
in PEI.

ELIGIBILITY: Proposals for demonstrations are
welcomed from industry, consultants,
associations, government departments,
municipalities, voluntary and
non-profit organizations and
individuals in PEI.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: This is a Federal program for the
demonstration of energy conservation
and renewable energy technologies in
PEI. The program provides funding for
demonstrations in all sectors of the
economy including residential.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCY: Other Federal government departments
provide reviews of proposals in
appropriate areas of technology.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$ 2 million FY 82-83.

PROGRAM COMMENCED:

1981

PROGRAM ENDS: 1984

CURRENT STATUS:

On-going

COMMENTS:

This program covers conservation and renewable energy technologies across the economy of PEI. Domestic energy conservation is an important part.

PRINCIPAL CONTACT(S):
(Federal)

Dr. P.B. Lumb
Technology Division
Conservation and Renewable Energy
Branch

ADDRESS(ES):
(Federal)

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: EnerSave Advisory Service.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To provide direct advice to Canadian householders on practical and economical ways to reduce energy consumption in their homes.

ELIGIBILITY: The computerized analysis of insulation requirements is available to owners and tenants of detached, semi-detached and row houses up to three stories. The toll-free advisory service and publications are available to all Canadian householders interested in saving energy on their homes.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: A national information centre on all aspects of home energy conservation. It offers householders a free computerized analysis of their home insulation requirements. The householders simply complete a questionnaire on the basic characterizations of their home, the answers are analyzed by computer and the results returned by mail. The analysis pinpoints how much insulation to add in each area of the home and specifies other saving measures which are advisable. It includes estimates of the cost of materials and

labour, the annual fuel savings, and the payback period based on current prices in their area. The Heatline service offers direct advice to householders who are interested in saving energy in their homes but who need help in deciding exactly what to do, what products and services to choose, and how to use them effectively. Technical information is provided on such topics as home insulation, home heating, energy-efficient home design and renewable energy. Enersave also produces and distributes a variety of EMR publications on home energy conservation, renewable energy and other related topics, as well as other EMR publication.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

The program is operated by the Department of Energy, Mines and Resources Canada. Copies of the questionnaire are available from the EnerSave office. A wide variety of agencies including provincial governments, utilities, industries, building supply outlets, community groups are already participating.

PROGRAM COMMENCED:

1977

PROGRAM ENDS: On-going.

CURRENT STATUS:

Since the inception of the program, the EnerSave Home Insulation Analysis has shown more than 300 000 Canadians how to achieve savings which have averaged over \$200 a year. It was anticipated that an additional 120 000 householders would take advantage of the program in 1980-81.

COMMENTS:

Bilingual Heatline information officers handle up to 1 500 calls and 200 letters per week from across Canada on both technical and consumer aspects of home energy conservation.

PRINCIPAL CONTACT(S):

EnerSave Advisory Service.
Energy, Mines and Resources Canada
P.O. Box 4510, Station "E"
Ottawa, Ontario
K1S 5K3
(613)995-1801

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Canadian Home Insulation Program (CHIP).

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: All parts of Canada except Nova Scotia and PEI which operate under a separate insulation grant program (HIP).

OBJECTIVES OF PROGRAM: To assist in the cost of materials and labour involved in insulating and air tightening a home in order to achieve a 30% energy saving in 70% of the entire housing stock over a period of seven years.

ELIGIBILITY: Single family homes, semi-detached or row house units, apartment buildings, and non-profit hostels are eligible. The house or apartment building must be used as a principal residence, be three stories or less and have been built before 1 January 1961 or before 1 September 1977 in the Yukon, Northwest Territories or Newfoundland.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: CHIP offers taxable grants to cover 100% of the cost of insulation materials, weatherstripping, vapour barriers, and attic vents to a maximum of \$350, and one-third of labour costs up to \$150, for a maximum of \$500. This maximum grant applies to detached, semi-detached and row house units. The

maximum varies for other types of units totalling \$285 (\$200 for materials and \$85 for labour) for units in apartment buildings of three stories or less, containing six units or less (including duplexes); \$215 (\$150/\$65) for units in apartment buildings of three stories or less containing more than six units; and \$100 (\$70/\$30) for bedrooms in non-profit hostels. Two grants per unit can be obtained up to the maximum grant allowable for that unit.

After 1 November 1981, insulation contractors performing work under CHIP will be required to be listed in the Canadian General Standards Board Certification Program for Residential Insulation Contractors.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

Energy, Mines and Resources is responsible for program policy and development, program evaluation and program funding. Under contract to EMR, CMHC processes applications distributes cheques and provides inspection services.

Information about CHIP and application request cards are available from CHIP coordination offices located in each Province and Territory.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$265 Million for 1981-82.

PROGRAM COMMENCED:

Nov. 1977 - PROGRAM ENDS: March 1987
(Modified
April 1979)

CURRENT STATUS:

From the introduction of the CHIP program to 31 August 1981, there have been 1 115 023 applications received and 1 077 888 grant cheques issued for a total expenditure of \$386.7 million.

PRINCIPAL CONTACT(S):

Nancy Mitchell, Administrator
Canadian Home Insulation Program
Conservation and Renewable Energy
Branch, Energy, Mines & Resources.

580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-1801

Suzanne Paquet, Manager
Canadian Home Insulation Program
Canada Mortgage and Housing Corporation
Post Office Box 700
Postal Station St-Laurent
Montreal, Quebec
H4L 5A8
(514)341-1511

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Home Insulation Program (HIP).

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: Nova Scotia and PEI.

OBJECTIVES OF PROGRAM: To encourage homeowners to reduce oil consumption for space heating as one means of offsetting the impact of higher electricity prices.

ELIGIBILITY: The unit must be a self-contained family housing unit, mobile home; hostel or apartment building three stories in height or less. The unit must be used as a principle residence and must have been occupied either by an owner or tenant before 1 January 1977. Previous recipients cannot reapply.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: HIP provides non-taxable grants of up to \$350 for the purchase of materials installed by the householder, or one third of the total insulation cost, including materials and labour charges up to \$500. Only one grant is available per unit.

INVOLVEMENT OF OTHER GOVERNMENT/AGENCIES: Funded by Energy, Mines and Resources, and delivered by Canada Mortgage and Housing Corporation.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1 January 1977 PROGRAM ENDS: 21 December 1981

CURRENT STATUS: Cheque issued from January 1977 until 31 May 1981

Prov.	Cheques	Units	Beds	\$
P.E.I.	26 122	28 190	647	9 605 457
N.S.	166 481	194 367	2 002	65 514 070
Total	192 603	222 557	2 649	75 119 527

COMMENTS: As of 31 March 1981, 70% of eligible units in PEI have participated in the program.

PRINCIPAL CONTACT(S): Nancy Mitchell, Administrator
Canadian Home Insulation Program.

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Super Energy Efficient Housing Demonstration.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To involve house builders in constructing housing units which are similar to those constructed under the Saskatoon Demonstration. It is hoped that a total energy budget of 100 Kwt hours per square meter per year will be adhered to for all units constructed under this program.

ELIGIBILITY: In principle, program participation is limited to builders who normally construct a significant number of housing units each year, i.e., a minimum of 20.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Funding available under the program, i.e., an average \$6 000 per house, must be used to assist in the design and evaluation of houses to be constructed in the demonstration projects for training builders and tradesmen on the appropriate techniques and core involved in construction, for site supervision during the construction process, for making the houses accessible to the public as demonstration units after construction is completed, for maintaining a documented record of the construction

process, for publicizing and promoting the demonstration and the techniques used in the various houses, and for keeping records of the energy performance of the houses once they are occupied.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:

Details of program to be developed in consultation with the provincial governments and representatives of the home building industry. Federal/Provincial Agreements to be signed.

AUTHORIZED PROGRAM
FUNDING LEVELS:

A total of six million dollars will be provided for 1 000 new energy efficient homes, i.e., for design and evaluation, not marginal costs.

PROGRAM COMMENCED:

1 April
1981

PROGRAM ENDS: 31 March
1984

CURRENT STATUS:

It is hoped that Federal/Provincial agreements will be completed by the end of the 1980-81 fiscal year and that approximately half of the housing units will be constructed during the summer of 1981.

COMMENTS:

It is hoped that as many builders as possible will be able to participate in the program as that different approaches might be explored by different builders and that the different experiences might be shared by all who participate in the program and all who are exposed to the program as a result.

PRINCIPAL CONTACT(S):

Charlie Ficner,
Conservation and Renewable Energy
Branch.

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: District Heating Detailed Engineering Design (D.H.).

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: The Atlantic Region.

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: D.H. is the provision of hot water from a central boiler or a source of waste heat to heat family housing units or commercial buildings. Financing will be provided to conduct detailed engineering designs of sites lending themselves to the implementation of district systems in the Atlantic region. Preliminary studies involve in-depth analysis of study results and evaluation of methodologies used with a view to establishing validity of findings and methodologies used and suitability of the DH project as a long-term public or private investment.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Study costs are fully funded by the Federal Government but direction and study design will include federal, provincial and local inputs.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Funding up to a maximum of one million
dollars will be provided.

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

Program not yet approved by Treasury
Board.

PRINCIPAL CONTACT(S):

T. Irwin
Conservation and Renewable Energy
Office.

ADDRESS(ES):

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Municipal Energy Management Program.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To realize significant energy savings in three distinct areas: internal energy management; review of services, by-laws and municipal planning and community involvement/outreach.

ELIGIBILITY: Canadian municipalities will be eligible.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: This program combines job creation with energy conservation by providing financial assistance to permit municipalities to hire full-time energy managers. It is proposed to pay the first-year salaries of some 900 municipal energy managers contingent upon agreement by the municipalities to continue funding for at least one additional year. Provision has been made for funding appropriate training programs as municipal energy managers are hired, and provide technical information including an exchange of case studies between municipalities.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

Some \$20 million has been ear-marked
for this program.

PROGRAM COMMENCED:

PROGRAM ENDS: 1985

CURRENT STATUS:

PRINCIPAL CONTACT(S):

Mr. Charles Marriott, Director General
Conservation and Renewable Energy
Branch.

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-1801

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Arctic Community Demonstration.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: The North.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: A selected community.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: This program will develop and finance a demonstration of enhanced conservation and renewable energy systems in a selected Arctic community with the intention of reducing, as far as economically justifiable, the reliance of that community on oil. Items to be demonstrated in the community include conservation technologies in the communities buildings and industries, wind energy, photovoltaics and other solar technologies, co-generation and the recovery of energy from thermal and material wastes.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Representatives from the governments of the Yukon, the Northwest Territories, Quebec, Newfoundland and Labrador will participate in discussions to develop detailed proposals for the demonstration and to oversee the development and completion of contracts to design and implement the various parts of the demonstration within the community.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Total funding under the program amounts
to \$10 million.

PROGRAM COMMENCED:

1980

PROGRAM ENDS: 1985

CURRENT STATUS:

PRINCIPAL CONTACT(S):

Graham Armstrong,
Conservation and Renewable Energy
Branch

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Low Energy Building Design Awards
(LEBDA).

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION
OF PROGRAM: National.

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: National competition to encourage more
energy-efficient building design, with
particular emphasis on design features
that help take advantage of building
orientation (passive solar)
- one for housing
- one for commercial/industrial
buildings.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: Public Works Canada worked with EMR in
developing the basic concept for the
competition. PW managed the
competition and the production of the
final publication.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$350 000 in prize money.

PROGRAM COMMENCED:

PROGRAM ENDS: 5 November 1980

CURRENT STATUS:

The competition ended on 5 November 1980 when the Governor General presented awards to the winning contestants. A publication containing the winning designs was made available at the same final. The book "Winning Low Energy Building Designs" is available from the Canadian Government Publishing Centre at a cost of \$19.95.

PRINCIPAL CONTACT(S):

I. Zaborowski,
Conservation and Renewable Energy
Branch

580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Accelerated Demonstration of Solar-Domestic Water Heating.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To demonstrate large scale deployment of solar domestic-water heating, to establish preliminary economies of scales, to demonstrate a preliminary commercial infrastructure for the installation and maintenance of solar-heating equipment, to contribute to the development of a private market for solar heating equipment, and to provide experience and information essential to the on-going development of policy in active solar heating.

ELIGIBILITY: The program deals exclusively in the suppliers of complete solar-heating systems. The main contractors will sub-contract to suppliers of solar-heating equipment, to owners of property (either building developers or homeowners), and to companies that will install and maintain the systems.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The financial participation of householders or builders is required. The proposer shall calculate the estimated annual value in 1981 of the hot water produced by the solar domestic water-heating system, and the owner of the house will be required to contribute three times this sum of money. The balance of the cost of the system and its installation, including

a fee for management of the project, will be paid by Energy, Mines and Resources. The ownership of the system shall reside with the homeowner at the end of the project, three years after the date of approval of installation.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

The program is run by Energy, Mines and Resources through contracts to project managers who administer projects of typically 100 or more solar heating systems.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

The program is now operational in eight regions with the following contractors:

- Ark Solar Products Ltd. - Victoria, BC
- Canadian Group Inc. - Hamilton, Ont.
- Francis Fuels Ltd. - Ottawa area Ont.
- Institute of Man and Resources Associates - Prince Edward Island
- Middleton Associates - Brampton, Ont.
- Scharry, Ouimet, Gélinas et Associés - Montréal, Québec
- Shairmont Nfld Ltd. - St. John's and New Brunswick
- Solar Energy Systems Inc. - Nova Scotia New Brunswick
- Solar Systems Industries Ltd. - Vancouver, BC

PRINCIPAL CONTACT(S):

Jack Cole
Conservation and Renewable Energy
Branch

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Canada Oil Substitution Program (COSP).

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: The program applies throughout the country but the eligible fuels alternatives vary from province to province.

OBJECTIVES OF PROGRAM: To assist homeowners and businesses to change their heating systems from oil to more abundant alternative fuels. The program is intended to play a key role in achieving the national goal of reducing oil consumption in the non-transportation sectors to ten percent of their total energy needs for 1990.

ELIGIBILITY: COSP grants are available to homeowners, landlords and to tenants whose landlords have agreed that the tenants may undertake and pay for conversions. COSP grants may be obtained also for conversions by businesses and by non-profit organizations, churches, school boards, hospitals, houses for the aged and libraries.

The program applies to conversion of residential and business space heating and water heating systems. Properties such as cottages are not eligible unless they are used as a principle residence. Grants for heated swimming pools are available only for conversions to solar heating. The buildings must have been constructed before 28 October 1980 and heated by oil (except where no reasonable

alternative is available) prior to the system conversion. However, COSP may be provided in two stages at different times when supplementing and later eliminating oil heating or when renting and later buying non-oil equipment.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED:

COSP provides taxable grants covering half the eligible costs of materials and labour for heating system conversions from oil. For a single family residence, the maximum grant is \$800. For centrally heated buildings with two or more self-contained dwelling units, the maximum grant varies from \$1 000 to \$5 500, depending on the total number of units in the building. In addition to supporting conversions to solid fuels and renewables, COSP will cover half the eligible costs of improving oil furnace efficiency and upgrading insulation in Newfoundland, Prince Edward Island, and the Yukon and Northwest Territories. In these areas, COSP grants are available in addition to the \$500 grants available under CHIP. Residents may therefore qualify for up to \$1 300 in federal government assistance.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:

COSP will be delivered by CMHC. Information and advice may be obtained from natural gas and electricity utilities, regional EMR offices, CMHC and the EnerSave Advisory Service. Administrative arrangements differ according to the alternative fuel selected by the consumer.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$2.2 billion is allocated for COSP
i.e., including assistance for
expansion of energy distribution.

PROGRAM COMMENCED:

28 October
1980

PROGRAM ENDS: 31 December
1990

CURRENT STATUS:

Administrative arrangements have been largely completed, following extensive discussions with the provincial governments and the electrical and natural gas utilities. Application forms are now available and cheques, are expected to start flowing in June.

COMMENTS:

COSP grants are available in addition to the \$500 grants available under CHIP. Residents may therefore qualify for up to \$1 300 in federal government assistance.

There are energy restrictions on alternatives in some provinces depending on the regional supply situation and preferences of the provincial governments. For example, in the Island of Newfoundland, in Prince Edward Island, and in Nova Scotia, conversions to electric heating will not be eligible until such time as dependence on oil-fired electricity generation has been reduced, as provided for in special regional/ initiatives under the National Energy Program. (Certain Labrador communities served by hydro-electricity will be eligible.) Also, at the request of the provincial governments, conversions to electricity will be ineligible in Alberta and restricted to certain areas of B.C. For the time being, only conversions to propane and renewable energy sources will be eligible for grants, in Saskatchewan.

PRINCIPAL CONTACT(S):

Tom Brett, Director
Conservation and Renewable Energy
Policy Division

Mr. Charles Marriott, Director General
Conservation and Renewable Energy
Branch

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

The Canadian Oil Substitution Program (COSP) is further divided into four sub-programs:

- (a) Gas/Electric Conversion Assistance Program (GELCAP)
- (b) Renewable Energy Conversion Assistance Program (RENCAP)
- (c) Super Retrofit Program (Super-CHIP)
- (d) Distribution System Expansion Program (DSEP).

Another program, the Renewable Energy Infrastructure Program (REIP) is a component of the latter program (DSEP). These sub-programs are described in the following pages.

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Gas-Electric Conversion Assistance Program (GELCAP).

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM:

	ELECTRIC*	GAS
NEWFOUNDLAND	NO	NO
----- Labrador communities of: Labrador City, Sheshatshit, Happy Valley- Goose Bay, Northwest River	----- YES	----- NO
PRINCE EDWARD ISLAND	NO	NO
NOVA SCOTIA	NO	When the gas pipe- line sys- tem is extended to N.S.
NEW BRUNSWICK	YES	When the gas pipe- line sys- tem is extended to N.B.

QUEBEC	YES	Western Quebec YES Eastern Quebec as the distribution system is extended
ONTARIO	YES	YES
MANITOBA	YES	YES
SASKATCHEWAN	NO	YES
ALBERTA	Except for heat pumps to supplement oil heating	YES
BRITISH COLUMBIA	Anywhere in the province for heat pumps YES	YES
	On Vancouver Island and anywhere natural gas is available NO	
NORTHWEST TERRITORIES	NO	Where available
YUKON	NO	Where available

* ELECTRIC: In some small remote communities of qualifying provinces where electricity is oilgenerated, electric conversions are not eligible.

OBJECTIVES OF PROGRAM: To assist householders and businesses to convert from oil to either natural gas or electricity.

ELIGIBILITY:

ELIGIBLE CONVERSIONS

Eligible conversions under COSP include:

adapting an oil-fired heating system with the result that it uses a non-oil energy source (for example, a conversion gas burner adapting an oil furnace to use gas);

replacing an oil-fired heating system with a heating system that uses another energy source (for example, replacing an oil furnace with an electric or gas furnace); and,

adding a supplementary heating system while keeping oil for part of the heating requirements (for example, adding a wood stove to supplement an oil-fired furnace).

ELIGIBLE APPLICANTS

This program is open to people or corporations who convert off oil to an eligible non-oil energy source. Eligible applicants include owners, tenants who have the owner's written permission to undertake a conversion, non-profit organizations, and churches, public libraries, schools, hospitals, and homes for the aged.

The following may not apply for a grant under the program:

- 4.1 - the government of any country, state, province, territory, municipality, subdivision or agency of the foregoing, or Crown corporation, except the public institutions listed above; and
- 4.2 - utilities administering the program.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED:

The program provides a grant (officially a contribution) of 50% of conversion costs, up to a maximum grant of \$800 for the single family residences. the maximum varies from \$1,000 to \$5,500 for multi-unit buildings. The grant is taxable; it is not indexed to the CPI.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:

Utilities across the country are carrying out part of the administration of the program on behalf of EMR.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 21 May 1981 PROGRAM ENDS: 31 December
1990

CURRENT STATUS: Operational; cheques are being issued.

PRINCIPAL CONTACT(S): Dennis Orchard, Director
Gas and Electric Conversion Assistance
Program

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580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9351 Ext. 212

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Renewable Energy Conversion Assistance Program (RENCAP).

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: RENCAP applies to all provinces except PEI, Newfoundland, Yukon and Northwest Territories.

OBJECTIVES OF PROGRAM: To assist householders and businesses to convert from oil to renewable sources of energy or propane.

ELIGIBILITY: Residences and commercial buildings are eligible but not government agencies.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: RENCAP provides taxable grants or 50% of the cost of converting from oil to renewable sources of energy (wood, solar, etc.) and propane, up to a maximum of \$800 depending on the building. Applies to space and hot water heating (including swimming pools).

INVOLVEMENT OF OTHER GOVERNMENT/AGENCIES: Delivered by CMHC.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Total budget over ten years for conversion to renewable sources of energy is based on a forecast that there will be approximately 240 000 conversions at a maximum cost of \$800 each, for a total of \$192 million.

PROGRAM COMMENCED:

28 October 1981

PROGRAM ENDS: 31 December 1990

CURRENT STATUS:

The development of the administrative system for processing of application forms is well advanced, request cards should be available by 30 May and CMHC should be ready to issue application forms by 10 June.

COMMENTS:

Automatic operation of the administrative system will commence in July, and until that time the applications will be processed manually.

PRINCIPAL CONTACT(S):

Deborah Lyan or Lou Brett, Director
Conservation and Renewable Energy
Policy Division

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-1801

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Enhanced Energy Conservation Program
(Super-CHIP)

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION
OF PROGRAM: Applies only in Newfoundland, PEI, the
Yukon and Northwest Territories.

OBJECTIVES OF PROGRAM: To encourage homeowners and small
businesses to implement energy
conservation initiatives and increase
their use of renewable energy forms.

ELIGIBILITY: Households and businesses undertaking
prescribed energy conservation
initiatives and switching to renewable
forms of energy.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: This program provides a taxable grant
of 50% of the costs of eligible
expenditures including conversions to
renewable energy, insulation, air
tightening and oil furnace retrofit up
to a maximum of \$800. The Super CHIP
grant is an on-site Class 'A' audit
which determines the optimal conversion
- conservation package for each
applicant.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES: Administered by EMR in consultation
with the provinces. Applications are
processed by CMHC under contract to
EMR.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 28 October 1981 PROGRAM ENDS: 31 March 1990

CURRENT STATUS: Underway, but Class 'A' audit still under development.

PRINCIPAL CONTACT(S): Graham Armstrong or Tom Brett, Director
Conservation and Renewable Energy
Branch

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Distribution System Expansion Program (DSEP)

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To encourage:
a) the expansion of distribution systems for natural gas, electricity, and propane.
b) infrastructure investments for renewable forms of energy
c) non-oil energy investments in remote communities.

ELIGIBILITY: Provincial governments, provincial utility companies and private sector firms may present proposals for funding under DSEP.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: DSEP will be conditional, in each province, upon a commitment by the provincial government to the 10% oil share target, and agreement that the gas price incentive be used in part at least to pay for gas system expansions. Except in Newfoundland, PEI and the Territories, DSEP funds are to be dedicated primarily to the expansion of natural gas distribution systems. In each province, not more than 10% of the funds shall be allocated to electricity utilities. DSEP grants normally take the form of a cash contribution to a well-defined project (such as a gas distribution

lateral or a mini-hydro project in a remote community). However, other methods of allocation (e.g., a cash grant per conversion obtained by a given project) will also be considered.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:

A federal provincial consultative committee reviews proposals and make recommendations to both federal and provincial ministers.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$1 400 million will be available for distribution system expansions over the ten-year life of the program. The allocation of funds by province will be based on current levels of oil consumption in each province.

PROGRAM COMMENCED:

28 October
1981

PROGRAM ENDS: 31 March
1990

CURRENT STATUS:

COMMENTS:

A project must receive approval from both the federal and provincial ministers. Criteria for approval by the federal minister include:

- . the extent to which the proposal will contribute toward reductions in the consumption of oil; and
- . evidence that the proposal would not be commercially viable in the absence of the DSEP grant.

PRINCIPAL CONTACT(S):

Tom Brett, Director
Conservation and Renewable Energy
Policy Division

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Remote Community Pilot Program.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: Applicable to off grid communities anywhere in Canada.

OBJECTIVES OF PROGRAM: To assist remote communities displace electricity with renewable energy sources.

ELIGIBILITY: Eligibility criteria have not yet been approved.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Under development.

INVOLVEMENT OF OTHER GOVERNMENT/AGENCIES: Provincial/Territorial governments, DINA, NCP.

AUTHORIZED PROGRAM
FUNDING LEVELS:

No budget has been approved yet.

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

Currently under development. Policy approval is expected by November 1981 program approval, by January. No projects are planned for this fiscal year.

COMMENTS:

PRINCIPAL CONTACT(S):

Tom Brett, Director
Conservation and Renewable Energy
Policy Division

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM:\ Energy Conservation R&D - Buildings Sector.

AGENCY RESPONSIBLE: Energy, Mines and Resources

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To provide the technical services, engineering and operational systems development required for development of existing technology and to provide conservation technologies which can be made available in the medium and long term to respond to high energy costs reduced availability.

ELIGIBILITY: Private Sectors and universities can participate in this program through submissions to "Request for Proposals".

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: This program covers the full range of buildings and includes shell, mechanical systems, components and appliances as well as tests standards and codes. The residential R and D is one program within this sector. This is not a program of assistance as such, but the R and D is conducted in-house or contracted out, and is directed to areas of federal priorities.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:

This is an interdepartmental program involving: National Research Council
Public Works Canada
Energy, Mines and Resources
Canada Mortgage and Housing Corporation
Indian and Northern Affairs.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$7 million for year 1982/83.

PROGRAM COMMENCED:

1981

PROGRAM ENDS: 1984

CURRENT STATUS:

On-going.

COMMENTS:

Private sectors and universities participate in this program through applications to "Request for Proposals" which appear in DSS, R and D Bulletins.

PRINCIPAL CONTACT(S):

Dr. P.B. Lumb
Conservation and Renewable Energy
Branch

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Federal/Provincial Program for the Demonstration of Conservation and Renewable Energy.

AGENCY RESPONSIBLE: Energy, Mines and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: Most provinces and the two territories. Alberta and PEI have special program agreements.

OBJECTIVES OF PROGRAM: The program has three main objectives:
. To develop and demonstrate promising technologies, techniques and systems which use renewable energy, conserve energy or make its use more efficient;
. To develop broad public awareness and acceptance of conservation and renewable energy technologies;
. To create employment in new or existing industries.

ELIGIBILITY: Proposals for demonstrations are accepted from industry, consultants, associations, colleges and universities, government departments and agencies, municipalities, voluntary and non-profit organizations and individuals.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The activities of the program are focused on two principle areas: funding and management of demonstration projects and transfer of information about demonstration experience. The program provides funding for demonstrations in all sections of the economy: residential, industrial, agricultural, commercial,

transportation and governmental. New conservation technologies in each sector will be demonstrated. In renewables, the most promising applications in each technology will be demonstrated. Funding is available for both large and small projects. Project contractors will be required to document the demonstration and to work with the Provincial Office in an information transfer program.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:

The program is funded under cost-sharing agreements with the provinces and territories. Program delivery is carried by the provinces who process applications and administer the projects. Project contractors are also expected to share the risks of the demonstration.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$300 million (Federal contribution of \$113 million, Provincial and Territorial contributions of \$96 million and third party participation for a total of \$300 million.) These funds are divided into separate provincial and territorial elements which are further allocated to sectors, technologies and years.

PROGRAM COMMENCED:

1979

PROGRAM ENDS: 1984

COMMENTS:

The decision to accept or reject any project will depend on how well it fulfills the following criteria:

- . energy impact - short and/or long term;
- . technical soundness;
- . potential for cost-effectiveness and/or commercial viability;
- . technical competence of the applicant to design, build, operate, manage, document and publicize the proposed demonstration;
- . impact on public acceptance and incentive for adoption;
- . private sector participation including cost-sharing;
- . wide geographical and sectorial coverage;
- . the quality of the information transfer plan; and
- . potential contribution of the technology to Canadian energy, industrial trade, regional and environmental objectives.

PRINCIPAL CONTACT(S):

C.S.L. McNeil, Co-ordinator
Federal Provincial Demonstrations
Conservation and Renewable Energy
Branch

Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613)995-9447

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Solar Energy Research and Development Program.

AGENCY RESPONSIBLE: National Research Council.

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To establish where and when solar energy can be used to an advantage in Canada, and to undertake, sponsor, encourage and promote the development in Canada of solar technology and an industrial capability based on that technology.

ELIGIBILITY: Any group or individual can present proposals in response to Requests for Proposals by N.R.C. or as unconsolidated proposals to Supply and Services Canada.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Consists of a series of projects for solar research development. These are for the most part conducted through contracts by organizations and individuals.

INVOLVEMENT OF OTHER GOVERNMENT/AGENCIES: Funded under the Federal Government's Energy Research and Development effort. The principal agencies involved in related activities include CMHC, EMR Environment Canada and Agriculture Canada and Public Works Canada.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$10 000 000 for the year 1981 (\$21
provided by EMR for the period
1978-1985).

PROGRAM COMMENCED:

1976

PROGRAM ENDS:

CURRENT STATUS:

Approximately 200 contracts currently
in force, most of them for an 18 month
period.

COMMENTS:

Most contracts are made in reply to
proposals. Technical information is
available to builders and engineers.
The Energy Project publishes reports on
contract work carried out under the
Solar Energy Program.

PRINCIPAL CONTACT(S):

R.M. Aldwinckle, Manager
Solar Energy Program

National Research Council
Montreal Road
Ottawa, Ontario
K1A 0R6
(613)993-2730

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Division of Building Research
Information Program.

AGENCY RESPONSIBLE: National Research Council.

GEOGRAPHICAL LOCATION
OF PROGRAM: National.

OBJECTIVES OF PROGRAM: Information dissemination.

ELIGIBILITY: General.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Provides information on matters
relating to energy use in buildings,
and on thermal properties and
performance in materials and
structures. The Energy Project
publishes reports on contract work
carried out under the Solar Energy
program of NRC. Reports and
publications of other NRC divisions
relating to energy are also available.

INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: On-going

CURRENT STATUS:

This service is not a special program, but a normal part of the wide range of technical work undertaken by the Division of Building Research, including that of field stations.

PRINCIPAL CONTACT(S):

R.G. Turenne, Head Technical
Information Service
Division of Building Research

National Research Council
Montreal Road
Ottawa, Ontario
K1A 0R6
(613)993-2607

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Residential Rehabilitation Assistance Program (RRAP)

AGENCY RESPONSIBLE: Canada Mortgage and Housing Corporation

GEOGRAPHICAL LOCATION OF PROGRAM: Restricted to designated areas (both urban and rural)

OBJECTIVES OF PROGRAM: To assist in the repair, rehabilitation or conversion in the case of non-profit corporations, of residential dwellings and to promote its subsequent maintenance.

ELIGIBILITY: Homeowners, landlords, non-profit corporations and co-operatives. In order to be eligible, the properties must be substandard in at least one of five basic areas; (structural) soundness, fire safety, electrical wiring, plumbing or heating and/or, in the case of non-profit corporations, upon conversion of their properties. The nature and quality of the repair work should ensure a further useful life of the property of about 15 years.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The Corporation makes preferred interest rate loans (current rate: 14 3/8%) to homeowners, landlords on a residual basis, non-profit corporations and co-operatives. Also, as a result of 1979 amendments to the NHA, the Corporation insures and guarantees private lender loans to landlords.

In addition, the Corporation may forgive repayment of a portion of the loan by the borrower. Homeowners are

eligible for a maximum loan of \$10 000. Under current regulations, borrowers with adjusted family incomes of \$9 000 or less are eligible for the maximum loan forgiveness of \$3 750. Available forgiveness declines to zero as adjusted income rises to \$16 500. Landlords are eligible for a maximum loan of \$10 000 per unit (\$4 000 per hostel or dormitory bed) directly from CMHC or, as noted above, may secure private lender loans. In either case, the current regulations provide that 50% of the costs of repairs may be forgiven to a maximum of \$2 500 per unit. In the case of rehabilitation loans financed by approved lenders, the forgiveness is provided through a loan made by the Corporation which is fully forgiven. The insured loan or home improvement loan must, however, be advanced before the forgivable loan.

Forgiveness is earned by the borrower over five years in the case of homeowner loans and ten years in the case of rental loans. The unearned portion of the forgiveness becomes repayable if landlords default on the operating agreement in respect of the rental rates that may be charged or if the homeowner ceases to occupy the property.

**INVOLVEMENT OF OTHER
GOVERNMENT/AGENCIES:**

In most areas the Corporation acts through agents, usually the municipality, in the delivery of the program. The approval process has been broken into stages from the preliminary application to the final inspection. Agents are paid a fee on a stage basis with the maximum fee being \$400 for each urban homeowner loan. The agency fee for rental loans is based on \$400 per unit for the first unit and \$50 for each additional unit. Fees for rural and native and on-reserve loans are set at \$400 per unit except in remote areas where, due to the travel costs associated with the loans, the agency fee is up to \$575.

AUTHORIZED PROGRAM
FUNDING LEVELS:

A total of \$165 million in capital allocations for 1981 (\$62.5 million for Urban RRAP, \$90.7 million for Rural RRAP and \$11.8 million for Non-Profit RRAP).

PROGRAM COMMENCED: 1974 PROGRAM ENDS:

CURRENT STATUS:

<u>Approved Loans</u>	<u>No. of Units</u>	<u>\$Million</u>
<u>Urban RRAP</u>		
1974 - 31 May 1981	78 276	311.808
1980	13 165	40.581
<u>Rural RRAP</u>		
1974 - 31 May 1981	61 858	265.095
1980	18 256	75.941
<u>Non-Profit RRAP</u>		
1980	304	

Average Loan Amount 1980

- Urban RRAP - 3 082
- Rural RRAP - 4 160

COMMENTS:

Although insulation is not a qualifying item under the Program, particular attention is drawn to the eligibility of improvement to the insulation of a dwelling under the RRAP standards. Inspectors and others involved in counselling property owners on repairs and improvements which they may undertake, are encouraged to emphasize the importance of improved insulation combined with an efficient heating plant.

PRINCIPAL CONTACT(S):

Charles d'Amour, Director
Residential Improvement Division

CMHC, National Office
Montreal Road
Ottawa, Ontario
K1A 0P7
(613)748-2693

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Housing Technology Incentives Program (HTIP).

AGENCY RESPONSIBLE: Canada Mortgage and Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: National.

OBJECTIVES OF PROGRAM: To encourage the development demonstration and documentation of new ideas intended to improve the performance of housing and to make the experience gained available to industry and the public.

ELIGIBILITY: Any Canadian company as person is eligible to apply. Organizations that are government sponsored or supported by public funds are not eligible.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: HTIP provides funding to a maximum of \$10 000 for each proposal. It is required that the proponents who receive a contribution under the program will themselves be financially involved in the endeavor. They are required to test and demonstrate their product or project and provide the Corporation at the conclusion of the work a report on the performance of their proposal.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funded under Part V Section 37.1 of the National Housing Act.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$800 000 for the year 1981.

PROGRAM COMMENCED:

Sept. 1980 PROGRAM ENDS:

CURRENT STATUS:

In the last 4 months of 1980, 94 applications were received out of which 39 were approved seventy-six percent of all proposals (71 applications) in 1980 were energy related. In 1981, 92 applications have been received and 22 approved. Of those approved 84% relate to energy, 8% to renovations for the handicapped.

COMMENTS:

In certain instances, the program will allow repeat demonstration of an idea in different regions of the country, as a method of information transfer. For 1981, "housing innovations for the disabled" were added to the 1980 priorities of 'energy in housing' and residential rehabilitation".

PRINCIPAL CONTACT(S):

C. Gwilym, Manager
Housing Technology Incentives Program
Policy Development and Research Sector

CMHC, National Office
Montreal Road
Ottawa, Ontario
K1A 0P7
(613)748-2238

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Canada.

TITLE OF PROGRAM: Heating Costs and Minimum Qualifying Incomes.

AGENCY RESPONSIBLE: Canada Mortgage and Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Country-wide.

OBJECTIVES OF PROGRAM: To provide an incentive to increasing the energy efficiency of the housing stock and reduce the risk of mortgage defaults due to heating costs claiming excessive proportion of purchasers' incomes.

ELIGIBILITY: This policy will affect all new and existing homeownership loans to be insured under Section 6 of the NHA. Purchasers of new housing must meet the new standards announced in the National Energy Program as of 1 July 1981.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: It consists of a change in the approach for computing minimum qualifying income for home purchasers. Lenders will be required to consider space heating costs as well as principle, interest, and taxes and one-half of condominium fees, excluding space heating costs, and to ensure that they do not exceed 32% of gross income. As a result purchasers of new housing will qualify at slightly lower incomes whereas purchasers of energy inefficient existing housing, especially in high energy cost areas will need higher income to qualify.

For new housing CMHC will accept that the lender use reasonable estimates by the builder of annual space heating costs. For existing housing, CMHC will except reasonable estimates of annual space heating costs by the seller or real estate agent.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

Lenders will be required to implement this new policy in disbursing loans.

The standards for new housing are incorporated in the National Energy Program under EMR.

AUTHORIZED PROGRAM
FUNDING LEVELS:

No funding requirement.

PROGRAM COMMENCED:

1 July 1981 PROGRAM ENDS:

COMMENTS:

As a further aid to the introduction of this measure, each local CMHC branch is prepared to furnish typical annual space heating costs for new and existing housing in its area for different types of fuels. These estimates are to be used entirely at the lenders discretion in place of the estimates by builder or seller. (Exceptions to the new measures will be considered on a case by case basis).

PRINCIPAL CONTACT(S):

Dave J. Munroe, Assistant Director
Luc Menard, Senior Policy Development
Specialist, Underwriting Directorate

CMHC, National Office
Montreal Road
Ottawa, Ontario
K1A 0P7
(613)748-2573
(613)748-2574

INITIATIVES IN DOMESTIC ENERGY CONSERATION

PROVINCE, OR CANADA: Agency.

TITLE OF PROGRAM: The Energy Saver Program.

RESPONSIBLE: Housing and Urban Development Association of Canada (HUDAC).

GEOGRAPHICAL LOCATION OF PROGRAM: National

OBJECTIVES OF PROGRAM: To improve energy conservation in Canadian housing.

ELIGIBILITY: The program applies to residential buildings up to 600 m² (6000 sq. ft) and three storeys in height as described in the National Building Code of Canada.

DESSCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The program covers four mandatory features:

- . increased air-tightness,
- . minimum insulation levels,
- . maximum glezing areas,
- . requirements for windowns and doors.

In addition, there are two optional, but worthwhile extras which should be featured in energy Saver Homes:

- . upgraded heating systems,
- . night set-back thermostats.

A layer promotion campaign was undertaken to make energy efficiency or regular sales themes and to make sure all sales representatives features are familiar with built-in energy efficiency customers. This promotion includes a travelling exhibit, a technical requirements bulletin, a savings and payback guide. A logo was developed for this promotion.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

The program was developed with the co-operation of CMHC and EMR. It is endorsed by CMHC, Insmor Mortgage Insurance Company, The Mortgage Insurance Company of Canada.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

1980

PROGRAM ENDS: On-going

PRINCIPAL CONTACT(S):

Housing and Urban Development
Association of Canada
15 Toronto Street - 10th Floor
Toronto, Ontario
M5C 2E3
(416) 364-4135

INITIATIVES IN DOMESTIC ENERGY CONSERATION

PROVINCE, OR CANADA: Agency.

TITLE OF PROGRAM: Energy Efficient Home Program (or Double E Home Program)

RESPONSIBLE: Canadian Electrical Association nationally Electric Utilities provincially.

GEOGRAPHICAL LOCATION OF PROGRAM: All provinces except Alberta.

OBJECTIVES OF PROGRAM: The goal of the program is to motivate builders of new homes and owners of existing ones to build or modify their structures to meet high energy efficiency guidelines. The guidelines are intended to improve the resistance of houses to heat loss and encourage the use of efficient major energy-consuming equipment and appliances. The guidelines can be applied regardless of the type of heating fuel used in the home; oil, gas, electricity, coal, solar energy or wood.

Ultimitaly, the Double E Program will minimize the waste of Canada's energy resources, reduce the need for utilities to invest in new generation, transmission and distribution facilities, decrease environmental problems and help keep homeowners' energy bills as low as possible.

ELIGIBILITY: Any and all builders and homeowners who meet or exceed the program guidelines.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED:

The program is based upon a set of national guidelines, for new or existing homes, designed to improve the resistance of the structure to heat loss and ensure the efficient operation of major energy consuming equipment and appliances.

Each participating utility is responsible for administration of the program in its service area. There are differences in the application of the program across Canada and interested parties should call their utility for information on local assistance and support programs.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

Supported by: Consumers' Association of Canada; Energy, Mines and Resources Canada and the electric utilities.

PROGRAM COMMENCED:

September 1979 PROGRAM ENDS: When a majority of homes included.

COMMENTS:

Builders participating in the program will have access to print materials which will link up their display homes or marketing programs plus the support of a national public information campaign. For more information, builders should contact any of the following electric utilities:

- B.C. Hydro
- City of Saint John Power Com.
- Hydro-Québec
- Manitoba Hydro
- Maritime Electric
- New Brunswick Electric Power
- Newfoundland Light & Power
- Nova Scotia Power
- Nova Scotia Power
- Ontario Hydro
- Saskatchewan Power
- West Kootenay Power & Light

PRINCIPAL CONTACT(S):

Phil Louette, Manager
Customer Services Division

Canadian Electrical Association
Suite 580, One Westmount Square
Montreal, P.Q. - H3Z 2P9

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Newfoundland.

TITLE OF PROGRAM: Energy Conservation Promotion and Information.

AGENCY RESPONSIBLE: Department of Mines and Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: Newfoundland and Labrador.

OBJECTIVES OF PROGRAM: To inform and educate the public on all aspects of renewable energy and energy conservation.

ELIGIBILITY: Aimed in the first instance at groups of people who have an interest in Energy Conservation, including teachers in Vocational Schools, the College of Trades and the Fisheries College; Canada Works Groups, Contractors; Engineers, Architects; and Citizens Groups.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Responds to general and specific information requests or metric referrals. Information is provided through literature, seminars, conferences - displays, etc. An Energy Conservation Poster contest was organized for school children.

INVOLVEMENT OF OTHER GOVERNMENT AGENCIES: Educational institutions such as Memorial University Extension Service, College of Trades, Vocational Schools are asked - to arrange courses and seminars are arranged in cooperation with people from the trades and professions. The Oil Companies, Newfoundland Light and Power and Hydro provided funds for the 80 prize winning posters.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS: On-going.

COMMENTS: Currently planning the Second Newfoundland "Energy Efficient Housing Conference" to be held in the Fall 1981. Proceedings are available for the first Energy Efficient Housing Conference held in October 1979 as well as "The Atlantic Canada Conference on Woodheating" - Feb/1979. Pamphlets are available to the general public.

PRINCIPAL CONTACT(S): Jo Heringa, Information Officer.

Nfld. Dept. of Mines and Resources
Conservation Section
P.O. Box 4750
St. John's Nfld A1C 5T7
(709) 737-2777

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Newfoundland

TITLE OF PROGRAM: Energy Conservation and Renewable Energy Demonstration Program.

AGENCY RESPONSIBLE: Department of Mines and Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: Newfoundland and Labrador.

OBJECTIVES OF PROGRAM: To demonstrate new technologies in various areas of energy conservation and renewable energy and show the general public that in energy efficiency care be achieved with a short pay back period.

ELIGIBILITY: Applicants must have the technical competence to design, built, operate, monitor and report on the innovation in question and be willing to assure a significant proportion of the project cost.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Projects demonstrating significant energy and cost saving potential resulting from the installation of energy saving devices in public and private building and transportation centres are suitable for funding in the energy conservation field. Projects which demonstrate significant fuel or electric savings through development or use of alternate or renewable energies (peat, wood, wind, solar, wave, etc.) also qualify.

The criteria necessary for approval include - the need for the proposed technology within the region in which

it is located, its potential to become economically attractive in domestic and foreign markets, its potential to encourage broad public awareness and adoption of the proposed technology and its potential contribution, if widely adopted, to the canadian energy industrial trade regional and environmental objectives.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

Under the Canada/Newfoundland Agreement for the Development and Demonstration of Renewable Energy and Energy Conservation Technologies. (Funding 80% Federal Government 20% Newfoundland Government.)

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$11,250,000

PROGRAM COMMENCED:

1979

PROGRAM ENDS: March 1984

CURRENT STATUS:

- (i) Small Scale Energy Demonstration Program provides contributions of up to 75% to a maximum of \$10,000 for small scale energy conservation and renewable projects.
- (ii) Low Energy Housing Demonstration Program
 - Two phases, I building an energy efficient house, II builders incentive program.

PRINCIPAL CONTACT(S):

Phil Graham, Manager
Energy Branch
Juanita Ryan
Energy Research Officer

Nfld. Dept. of Mines & Energy
P.O. Box 4750
St. John's, Nfld.
A1C 5T7
(709) 737-2411
(709) 737-2762

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Newfoundland.

TITLE OF PROGRAM: Public Information Program.

AGENCY RESPONSIBLE: Newfoundland Light and Power.

GEOGRAPHICAL LOCATION OF PROGRAM: Covers 85 percent of the Island of Newfoundland.

OBJECTIVES OF PROGRAM: To encourage energy conservation.

ELIGIBILITY: Any customer may receive information on the wise and efficient use of electricity. Advisory service is available for electric space heating requirements for homes and for buildings up to 10,000 sq. ft.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: All media are used to advertise the wise and efficient use of electricity, the Energuide Program and the Energy Efficient Home Program of the Canadian Electrical Association. Free advisory service is offered to all customers who wish to install electric space heating in their homes by recommending standards of insulation, designing their space heating requirements and estimating their heating costs.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: No direct involvement of Government. However, Newfoundland Light & Power supports and cooperates with government policies and programs.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Funding is made available as required.

PROGRAM COMMENCED:

PROGRAM ENDS: On-going

CURRENT STATUS:

Free advisory services in many forms
are provided to thousands of customers.

PRINCIPAL CONTACT(S):

A.P. Nugent, Technical Supervisor,
Energy Use Services
W.J. Connors, Supervisor, Energy
Communications
Newfoundland Light & Power Co. Limited
Customer Services Department
P.O. Box 8910
St. John's Newfoundland
A1B 3P6
(709) 737-5763

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Newfoundland.

TITLE OF PROGRAM: RRAP Loan Assistance.

AGENCY RESPONSIBLE: Newfoundland and Labrador Housing Corp.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide

OBJECTIVES OF PROGRAM: To enable Social Assistance recipients take full advantage of the federal RRAP.

ELIGIBILITY: Social Assistance recipients in RRAP designated areas.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Loan portion of RRAP assistance repaid by the Province in situations where emergency repairs are necessary - This makes it unnecessary to get a promisory note.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Department of Social Services repays RRAP loans in these cases. Canada Mortgage and Housing provides the funding for RRAP.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1978 PROGRAM ENDS:

CURRENT STATUS:

COMMENTS: This program is in addition to the
Federal/Provincial RRAP.*

PRINCIPAL CONTACT(S):	M.J. Vincent Director Social Assistance Nfld. Depart. of Social Services Confederation Building St. John's, Nfld. A1C 5T7 (709) 737-3243	Robert Noseworthy Director of Planning & Nfld. & Labrador Housing Corp. P.O. Box 220 Elizabeth Towers St. John's, Nfld. A1C 5J2 (709) 737-3554
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INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island

TITLE OF PROGRAM: Wood Fuel Blocking and Splitting Program

AGENCY RESPONSIBLE: P.E.I. Energy Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide

OBJECTIVES OF PROGRAM: To meet the need for blocking and splitting facilities for those using wood for heating purposes.

ELIGIBILITY: Persons who will provide the equipment to the public on a rental basis for a period of at least three years.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Loans up to \$1,250 are available to cover 50 percent of the cost of a wood splitter or blocker. One third of the loan is forgivable every year for a period of three years.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM
FUNDING LEVELS: \$30,000

PROGRAM COMMENCED: Fall 1980 PROGRAM ENDS: 1 April 1982

CURRENT STATUS: Program ongoing - 18 applications have
been processed to date.

COMMENTS: Response to the program is very good.

PRINCIPAL CONTACT(S): Mr. Art Hiscock
Acting Executive Director

ADDRESS(ES): P.E.I. Energy Corporation
Box 2000
Charlottetown, PEI
(902) 892-1051

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island

TITLE OF PROGRAM: Social Rehabilitation Program.

AGENCY RESPONSIBLE: P.E.I. Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To assist Social Assistant recipients in upgrading their housing units, i.e. those who qualify for RRAP and cannot undertake repayment.

ELIGIBILITY: Applicants are selected by the P.E.I. Department of Social Services. The housing unit and proposed repairs must be approved by the PEI Housing Corporation before any rehabilitation work can take place.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides RRAP loans up to \$10,000 of which a maximum of \$3,750 is forgivable. In the case of units occupied by Social Assistance recipients, labor is performed through the local Manpower Office and the Department of Social Services repays the loan.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The P.E.I. Department of Social Services selects the applicants and pays the clients portion of the loans. Funding for RRAP is provided by CMHC.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Subject to the CMHC-RRAP budget.

PROGRAM COMMENCED: 1975 PROGRAM ENDS: Indefinite

CURRENT STATUS:	<u>Approved Loans</u>	<u>Number</u>	<u>\$</u>
	1977-78	36	200,000
	1978-79	17	100,000
	1979-80	14	108,000
	1980 (to 31 Dec.)	14	100,000 (est.)

COMMENTS: This program is a sub-section of Canada
- PEI RRAP.

PRINCIPAL CONTACT(S): Bill Irwin, Director
Field Services

ADDRESS(ES):	PEI Housing Corp.	PEI Dept. of Social
	P.O. Box 1388	Services
	Charlottown, PEI	
	(902) 892-0221	(902) 892-1261

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island.

TITLE OF PROGRAM: Consultant Grant Program.

AGENCY RESPONSIBLE: Department of Tourism, Industry and Energy

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: As a follow-up to Enersave energy audit, consultant assistance is sometimes recommended where the situation warrents more in-depth investigation.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funding provided under a Canada/PEI Agreement.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

569 consultant grants paid out as of
30 April 1981 for a total of over three
million dollars.

PRINCIPAL CONTACT(S):

Copthorne MacDonald, Manager
Consultant Grant Program

ADDRESS(ES):

PEI Department of Tourism,
Industry & Energy
Box 2000
Charlottetown, P.E.I.
(902) 892-7411
Zenith 19450

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island.

TITLE OF PROGRAM: Thermography Program.

AGENCY RESPONSIBLE: PEI Department of Tourism, Industry and Energy

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To assist homeowners in determining insulation needs.

ELIGIBILITY: Homeowners.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: An experimental program offering a thermography service which is conducted using hand held equipment and a walk through method. The homeowner is required to pay a fee for the service.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funding provided under Enersave through a PEI Agreement with Energy, Mines and Resources Canada.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: To continue
until demand
is met.

CURRENT STATUS:

Ongoing program.

COMMENTS:

PRINCIPAL CONTACT(S):

Laura Mair, Conservation Co-ordinator
Norman Hall, Director,
Energy Branch
PEI Department of Tourism,
Industry & Energy
Box 2000
Charlottetown, P.E.I.
(902) 892-7411

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island.

TITLE OF PROGRAM: Furnace Retrofit Program.

AGENCY RESPONSIBLE: PEI Department of Tourism, Industry and Energy

GEOGRAPHICAL LOCATION OF PROGRAM:

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: An experimental program which provided training in the installation of burner retrofit components to burner servicemen. The province also offered a \$20 cash rebate incentive to homeowners having retrofits by the servicemen.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funding provided under Enersave through a PEI Agreement with Energy, Mines and Resources Canada.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: 31 March 1980

CURRENT STATUS:

Training at this date has been completed and the cash rebate has been discontinued.

COMMENTS:

Enersave notes that retrofit work is continuing without these programs.

PRINCIPAL CONTACT(S):

Laura Mair, Conservation Co-ordinator
Norman Hall, Director,
Energy Branch
PEI Department of Tourism,
Industry & Energy
Box 2000
Charlottetown, P.E.I.
(902) 892-7411

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island.

TITLE OF PROGRAM: Furnace Efficiency Tests.

AGENCY RESPONSIBLE: PEI Department of Tourism, Industry and Energy

GEOGRAPHICAL LOCATION OF PROGRAM:

OBJECTIVES OF PROGRAM:

ELIGIBILITY: Homeowners.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Kits are provided free of charge to check the efficiency of their furnaces.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funding provided under Enersave through a PEI Agreement with Energy, Mines and Resources Canada.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS: Ongoing program.

COMMENTS: This test can also be performed by
Enersave staff in conjunction with the
thermography scan.

PRINCIPAL CONTACT(S): Laura Mair, Conservation Co-ordinator
Norman Hall, Director,
Energy Branch
PEI Department of Tourism,
Industry & Energy
Box 2000
Charlottetown, P.E.I.
(902) 892-7411

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island

TITLE OF PROGRAM: The Canada PEI Agreement on Renewable Energy Development.

AGENCY RESPONSIBLE: Institute of Man and Resources.

GEOGRAPHICAL LOCATION OF PROGRAM:

OBJECTIVES OF PROGRAM: To study and develop renewable energy resources within the province, including energy management.

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Consists of
(i) assessing the potential resources,
(ii) reviewing available technologies and systems,
(iii) setting up demonstrations of renewable energy on a scale suitable to the PEI,
(iv) developing and adopting those technologies and systems where necessary,
(v) identifying private and public sector involvement in the manufacturer, installation and use of those technologies and systems, and
(vi) providing information.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funding provided by Energy, Mines and Resources Canada and the PEI Government. Environment Canada also contributes with the Ark project. The Institute of Man and Resources acts as a Secretariat sub-contracting work.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Authorized funding for a three year
period.
\$3 Million from the Federal Government
\$3 Million from the Provincial
Government.

PROGRAM COMMENCED:

1977

PROGRAM ENDS: Extended to
31 March
1981

CURRENT STATUS:

COMMENTS:

PRINCIPAL CONTACT(S):

Martha Musgrove,
Information Officer
Andrew Wells,
Executive Director
Institute of Man &
Resources
50 Water Steet
Charlottetown, P.E.I.
(902) 892-0361

Dr. Peter J. Dyne
Director
Office of Energy
Research & Dev.
Energy Mines &
Resources
580 Booth St.
Ottawa, Ont.
K1A 0E4
(613)992-3738

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Prince Edward Island

TITLE OF PROGRAM: Electric Water Heating Insulating Blanket Program.

AGENCY RESPONSIBLE: Maritime Electric Company, Limited.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-Wide.

OBJECTIVES OF PROGRAM: To reduce stand-by heat losses from electric water heater storage tanks thereby reducing consumption and costs.

ELIGIBILITY: Owners of water heater storage tanks.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Insulating water heater Kit (R10) available at cost (\$17.17) from branch offices throughout the Province.

Kit is exemp from Provincial Sales Tax.

Eligible for grants under Off-Oil Program (CREB).

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Program is self-supporting with kits
being sold at cost.

PROGRAM COMMENCED:

Summer 1981 PROGRAM ENDS: On-going.

CURRENT STATUS:

Program is just getting underway but
preliminary interest is high.

COMMENTS:

Response to the program is excellent.

PRINCIPAL CONTACT(S):

W.W. Brown,
Public Relations Supervisor
Maritime Electric Co. Ltd.
P.O. Box 1328,
Charlottetown, PEI
CIA 7N2
(902) 892-6531 Ext. 123

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Public Information Program.

AGENCY RESPONSIBLE: Nova Scotia Department of Mines and Energy

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To increase public awareness and involvement in energy conservation.

ELIGIBILITY: Aimed at all Nova Scotians through a variety of activities.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides information, resources materials, seminars, and educational courses on various aspect of energy conservation. Activities include a toll free telephone service, portable display units used in conjunction with energy shows and special events, Energy Conservation Days, the presentation of Energy Awards for significant achievements in energy management, poster contests for elementary school students, an advertising campaign, an Energy Auditing Service for individuals with problems, etc.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Cost shared with DREE for certain activities, namely courses on home insulation and energy conservation offered through the Continuing Education Program, and seminars on specific energy subjects, offered by third parties.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$1 Million

PROGRAM COMMENCED:

1 April 1978

PROGRAM ENDS:

31 March
1983

CURRENT STATUS:

On-going.

PRINCIPAL CONTACT(S):

Jim Gordon

Senior Energy Officer

Energy Management Division

N.S. Dept. of Mines & Energy

P.O. Box 668

Halifax, N.S.

B3J 2T3

(902) 424-8619

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Pilot Projects Program.

AGENCY RESPONSIBLE: Nova Scotia Department of Mines and Energy

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To encourage the industrial, commercial and residential sectors within N.S. to implement energy conservation and renewable energy technologies which are not currently in widespread use but which are beyond research and development stage.

ELIGIBILITY: All sectors of the economy. The project steering team will react to both solicited and unsolicited proposals.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: A program steering committee with representatives from EMR, DREE and the NS Dept. of Mines and Energy is responsible for the overall direction of the program. The program sponsors the Private Housing Demonstration Projects (grants provided to small demonstration projects to carry out various housing prototypes), Special Senior Citizen Demo Projects (using active solar energy to heat water and passive greenhouse technology for winter heat gain), the Energy Efficient Housing Demonstration Project, etc.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Eighty percent of the funding is provided by DREE under the Subsidiary Agreement on Energy Conservation.

AUTHORIZED PROGRAM
FUNDING LEVELS: \$5,000,000

PROGRAM COMMENCED: 1979 PROGRAM ENDS: 31 March 1983

CURRENT STATUS:	<u>Assisted units by project to date</u>	<u>No. of units</u>
	Energy Efficient Housing Demo Project	10
	Special Senior Citizens (Hot Water) Demo. Project	30
	Bridgewater Apartment Building	12
	Small Scale Energy Demo. Grants (1980)	62 (mainly residential)
	Senior Citizens Complex energy retrofit in Amherst	20
	Groundwater source heat pump	1
	Dalhousie married student housing - electrical load control	100+

COMMENTS: The Small Scale Energy Demonstration Program, offered in 1980 and 1981, provided assistance for demonstrating alternative energy technologies and innovative energy conserving measures. In 1980, 62 projects received \$257,000 in assistance. This program was first of its kind to be offered in Canada.

PRINCIPAL CONTACT(S):	C. Ryan Senior Engineer N.S. Dept. of Mines & Energy P.O. Box 668 Halifax, N.S. B3J 2T3 (902) 424-3203	Vaughn Munroe Engineer Pilot Project Program N.S. Dept of Mines & Energy P.O. Box 668. Halifax, N.S. B3J 2T3 (902) 424-8619
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INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: ENER-INFO.

AGENCY RESPONSIBLE: Nova Scotia Department of Mines and Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To provide independent advice to the consumer on energy related issues.

ELIGIBILITY: All Nova Scotia residents.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides literature and advice on energy conservation. A toll-free telephone line is provided for residents outside Halifax - Dartmouth exchange.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1978 PROGRAM ENDS: On-going

CURRENT STATUS: One toll-free line in operation daily from 8:30 a.m. to 4:30 p.m. managed continuously by a Department Energy Officer.

COMMENTS: Heavily used by general public.

PRINCIPAL CONTACT(S): Jim Gordon
Senior Energy Officer
Nova Scotia Department of Mines and
Energy
P.O. Box 668
Halifax, N.S.
B3J 2T3
(902)424-5727

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Energy Test and Information Centre (Enertic).

AGENCY RESPONSIBLE: Nova Scotia Department of Mines and Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: Provide public access to relevant information on domestic energy conservation.

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Enertic will conduct literature searches and provide advice to in response to requests from the public dealing with domestic energy conservation. Literature searches may include reference material, textbooks, computer data bases, depending on detail requested by public.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Nova Scotia Research Foundation Corporation, Department of Regional Economic Expansion.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$1,500,000

PROGRAM COMMENCED:

1980

PROGRAM ENDS:

CURRENT STATUS:

On-going.

COMMENTS:

Requests for information that go beyond that routinely handled by the department of Mines and Energy are referred to Energetic.

PRINCIPAL CONTACT(S):

Gerald R. Archibald
N.S. Research Foundation Corporation
P.O. Box 790
Dartmouth, Nova Scotia
B2Y 3Z7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Home Energy Audits.

AGENCY RESPONSIBLE: Nova Scotia Department of Mines and Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: Provide advice to homeowner on difficult conservation-related problems.

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Homeowners using the department's toll-free line to request advice on conservation-related issues may have encountered situations which can only be resolved through a visit by one of the department's energy officers. The program, at the discretion of the department, provides on-site inspection by qualified professional who recommend remedial measures to the homeowner.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS: Active

COMMENTS: Number of audits performed depends on level of request and staff availability.

PRINCIPAL CONTACT(S): Jim Riddy - Energy Conservation Officer
N.S. Department of Mines and Energy
P.O. Box 668
Halifax, Nova Scotia
B3J 2T3

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Solar and Wind Sales Tax Rebate.

AGENCY RESPONSIBLE: Nova Scotia Department of Mines and Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: Province incentive for use of solar and wind.

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Rebate of provincial sales tax on materials used in construction of solar or wind energy systems.

Eligible systems include passive solar heating systems that incorporate thermal storage, all active solar space and hot water heating systems, solar pool heating systems, and wind systems.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Program co-ordinated with Provincial Tax Commission.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1 April 1977 PROGRAM ENDS: Indefinite

CURRENT STATUS: On-going

COMMENTS:

PRINCIPAL CONTACT(S): C. Tyan
Senior Engineer
or
Jim Riddy
Energy Conservation
Officer
Halifax, Nova Scotia
B3J 2T3

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Public Information Program.

AGENCY RESPONSIBLE: Nova Scotia Power Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To increase public awareness of improvement opportunities and the latest energy efficiency standards; encourage wise and efficient use of our energy resources.

ELIGIBILITY: Anyone regardless of their home heating system.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides energy efficient designs, energy estimates and inspection for residential electric heating systems; information on efficiency standards for new home construction and improving insulation and weather tightness of existing homes; energy audits of residential business, industrial buildings. Also provides information on energy-conscious selection, efficient operation and maintenance of home appliances, and references on renewable energy technology.

Advise is provided by consultation with staff of energy advisors, by mail, phone, visits to customers premises, and by public exhibits and demonstrations.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS: On-going.

PRINCIPAL CONTACT(S): Energy Management Department
 Customer Services Division
 Nova Scotia Power Corporation
 P.O. Box 910
 Halifax, Nova Scotia
 B3J 2W5

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Standards for Senior Citizens Housing.

AGENCY RESPONSIBLE: Nova Scotia Housing Commission.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To increase energy-efficiency standards in senior citizen multiple-unit projects.

ELIGIBILITY: Senior Citizen Public Housing Units.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Standards for increased energy efficiency in senior citizen multiple unit projects are being developed, and approval for funding to cover increased costs is being sought. It is anticipated to improve the design of new projects and possibly upgrade older projects.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Looking for CMHC funding.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

In the planning stage.

PRINCIPAL CONTACT(S):

Mr. E. Clark, Director of Planning
Mr. O.G. Hubley, Manager
N.S. Housing Commission
Royal Bank Building
46 Portland Street
Dartmouth, Nova Scotia
B2Y 3Z3
(902) 424-6729 (for E. Clark)

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Home Insulation Loan Program.

AGENCY RESPONSIBLE: Nova Scotia Housing Commission.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To improve the energy saving capacity of homes by the installation of insulation and the completion of related work.

ELIGIBILITY: Available to homeowners, landlords, tenants. The "house" must be a self contained family housing unit, or buildings containing hostel accommodation, or mobile home, resident in Nova Scotia. Cottages and summer houses do not qualify. The units must be three stories or less in height and they must have been occupied by an owner or tenant before 1 January 1977. No previous recipient can re-apply.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The program provides loans up to \$3,000 for the conversion from electric heating to an alternate heating system, and up to \$2,500 for expenditures on insulation materials, related items and labour. The repayment term is for five years at an interest rate at two percent below the preferential rate offered by NSHC (currently 6%).

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The program was initially funded by the federal CHIP, but it is now funded strictly by the Province.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$25 Million was provided by the Federal government until 1980.
\$8.5 Million was provided by the Provincial government for the year 1981.

PROGRAM COMMENCED:

1 March
1977

PROGRAM ENDS:

CURRENT STATUS:

Loan approvals	Number	\$
1977	875	1,594,000
1978	1,260	2,672,000
1979	3,024	6,830,000
1980	4,148	9,421,000

Average loan in 1980 - \$2 271

COMMENTS:

Except for electric heating conversion projects, a basic requirement for loans is that units must have received or are to receive a grant under CHIP. The NSHC loan covers the remaining cost of a home insulation project up to a maximum of \$2 500.

There must be no previous loan per unit under this program and no work is eligible that has already been approved under RRAP. (These conditions are not required in conversion from electric heating.)

PRINCIPAL CONTACT(S):

Mike MacDonald
Nova Scotia Housing Commission
P.O. Box 815
Dartmouth, N.S.
B2Y 3Z3
(902) 424-6729

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Senior Citizens Assistance Program.

AGENCY RESPONSIBLE: Nova Scotia Housing Commission.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To provide assistance to senior citizens to upgrade their homes in order to make them more liveable rather than loose them.

ELIGIBILITY: Senior citizens (either spouse must be 65 or over) whose combined spouses income does not exceed \$10,000 and who are not being assisted by another federal or provincial rehabilitation program. Applicants must own and occupy the home or have a life interest in the dwelling.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Loans are provided for 75% of the actual cost of labour and materials to a maximum of \$2,500. The applicant is responsible to pay the remaining 25%. If the applicant cannot afford the 25% portion, low-interest loans may be available under the Small Loans Assistance Program.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$2 Million for 1980 (est.).

PROGRAM COMMENCED:

1979

PROGRAM ENDS:

CURRENT STATUS:

<u>Approved Loans</u>	<u>No. of Loans</u>	<u>\$</u>
1979	526	727,000
1980	1,112	2,472,000

Average loan in 1980 - \$2,223

COMMENTS:

The commission does not promote energy conservation as such under this program.

PRINCIPAL CONTACT(S):

Harold Newman
N.S. Housing Commission
P.O. Box 815
Dartmouth, N.S.
B2Y 3Z3
(902) 424-6729

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Housing Emergency Repair Program.

AGENCY RESPONSIBLE: Nova Scotia Housing Commission.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To provide assistance to homeowner occupants to upgrade their homes and make them more liveable.

ELIGIBILITY: Low-income homeowner/occupants who cannot afford emergency repairs to their homes. Applicants must have severe health or safety problems to be eligible. The combined annual income of both spouses must not exceed \$6,000.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Grants up to \$2,000 are available for labour and materials.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1977 PROGRAM ENDS:

CURRENT STATUS:	Approved Grants	No. of Grants	\$
	1977	708	1,858,000
	1978	1,706	3,623,000
	1979	298	608,000
	1980	131	229,000

Average grant in 1980 - \$1,748

COMMENTS: Uncertain of the current year's status
- no funding appears to have been
provided for 1981.

PRINCIPAL CONTACT(S): Harold Newman
N.S. Housing Commission
P.O. Box 815
Dartmouth, N.S.
B2Y 3Z3
(902) 424-6729

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Small Loans Assistance Program.

AGENCY RESPONSIBLE: Nova Scotia Housing Commission.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To provide assistance to people in need to upgrade single family dwellings.

ELIGIBILITY: Combined spouses' income must not exceed \$12,000 per annum and payments for principle, interest and taxes must not exceed 25% of combined spouses' income.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides low-interest loans for repairs, alterations or additions to single family homes, and for the completion of a single family home. Loans are available up to a maximum of \$5,000 at an interest rate of six percent. The repayment term is based on applicant's ability to pay but will not exceed five years. Legal costs are considered as part of the loan. Loan security may consist of a first or second mortgage on the property. Where a second mortgage is taken the balance owing on the first mortgage must not exceed 50% of the appraised value of the dwelling. Applicants receiving Social Assistance or Welfare payments

must provide a letter from the agency guaranteeing repayment of the loan. If the title of the property is transferred, the loan becomes due and payable.

INVOLVEMENT OF OTHER GOVERNMENT/AGENCIES: None.

AUTHORIZED PROGRAM FUNDING LEVELS: \$1,000,000 for the year 1981.

PROGRAM COMMENCED: 1979 PROGRAM ENDS:

CURRENT STATUS:	Approved Loans	Number	\$
	1979	111	294,000
	1980	199	590,000

Average loan in 1980 - \$2,965

PRINCIPAL CONTACT(S): Frank Read
N.S. Housing Commission
P.O. Box 815
Dartmouth, N.S.
B2Y 3Z3
(902) 424-6729

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Nova Scotia.

TITLE OF PROGRAM: Do-It-Yourself Home Insulation Course.

AGENCY RESPONSIBLE: The Nova Scotia Energy Council.

GEOGRAPHICAL LOCATION OF PROGRAM: The course is taught throughout the province.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: The course is offered to homeowners interested in properly insulating their homes as inexpensively as possible.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The course provides information on how to properly install insulation for homeowners who want to do it themselves in six hours of instructions. The course is taught by qualified instructors. It is offered through the continuing education program in local schools. Registration is about \$50.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The Nova Scotia Department of Education offers the course in local schools through its continuing education program.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS: On-going

PRINCIPAL CONTACT(S): The Power Pack
N.S. Energy Council
P.O. Box 668
Halifax, Nova Scotia
B3J 2T3
(902) 424-5727

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: New Brunswick.

TITLE OF PROGRAM: Home Energy Conservation Loan Program.

AGENCY RESPONSIBLE: New Brunswick Electric Power Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To enable homeowners to upgrade the insulation levels in their homes.

ELIGIBILITY: Loans are available to any New Brunswick electric utility customers who have acceptable credit and who are the registered owners of the residence. The loan plan applies to single family homes, duplexes and mobile homes. It also applies to apartment buildings and rooming houses which originally were single family dwellings and which are the principal residence of the owner.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Low interest loans are available for the purchase and/or installation of insulation, storm windows and doors, attic ventilating equipment, vapor barrier, weather stripping and caulking as well as associated electrical materials used with ventilating equipment and framing for basement walls.

INVOLVEMENT OF OTHER: The program is financed by the Province of New Brunswick through the Energy Secretariat.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$11,278,000 until May 1981.

PROGRAM COMMENCED:

Oct. 1977 PROGRAM ENDS: 1984

CURRENT STATUS:

The current interest rate for the low interest loans is 7.5%.

Loan Activity by Year	No. of Loans	Average Size of Loans
--------------------------	-----------------	-----------------------------

1977-78	\$ 659,230	906	\$727-62
1978-79	\$2,265,142	2,832	\$799-84
1979-80	\$5,705,985	6,922	\$824-32

Average size of loan from 1977 to mid 1980 is \$822. As of May 1981, approximately 14 000 New Brunswickers have received loans totalling about \$12 million.

COMMENTS:

Average size of loan over the entire period from 1977 to mid 1980 is \$822.

PRINCIPAL CONTACT(S):

Keith Jones, Director
Customer Services
A.J. O'Connor - Manager
N.B. Electric Power Corporation
527 King St.
Fredericton, N.B.
E3B 4X1
(506) 453-4472

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: New Brunswick.

TITLE OF PROGRAM: Housing in the '80's.

AGENCY RESPONSIBLE: New Brunswick Housing Corporation.

GEOGRAPHICAL LOCATION
OF PROGRAM:

OBJECTIVES OF PROGRAM: To demonstrate an energy efficient approach to new housing as well as the upgrading of the old and relatively new housing stock.

ELIGIBILITY:

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Program details not yet finalized. It will consist of constructing and renovating houses to demonstrate new technologies. These will then be sold on the market.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: Looking for supplementary federal funding.

AUTHORIZED PROGRAM
FUNDING LEVELS:

(\$750,000 proposed budget).

PROGRAM COMMENCED:

PROGRAM ENDS:

COMMENTS:

Construction to start as soon as the budget will be approved by the provincial government.

PRINCIPAL CONTACT(S):

Gerry Levesque - Director of
Development
K.C. Scott, President
N.B. Housing Corporation
P.O. Box 611
Industrial Park
Fredericton, New Brunswick
I3B 5B2
(506) 454-5563

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: New Brunswick.

TITLE OF PROGRAM: Rural and Native Housing Program
Energy Efficient Housing.

AGENCY RESPONSIBLE: New Brunswick Housing Corporation.

GEOGRAPHICAL LOCATION
OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To increase the energy efficiency of
houses financed under the RNH program
in New Brunswick.

ELIGIBILITY: The eligibility requirements are the
same as for the federal RNH program.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: This program delivers compact well
insulated higher than normal standard
levels split entry houses equipped with
combination heating by oil furnace and
wood stove. Special consideration was
given to proper orientation of these
houses for increased solar gain.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: Funded under the Canada/NB agreement
for the RNH program through CMHC and
the N.B. Energy Secretariat.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1979 PROGRAM ENDS:

CURRENT STATUS: Approximate number of RNH loans
1979 - 100 units
1980 - 100 units
1981 - 111 units

The dollar value for each unit remains within the CMHC price limit.

COMMENTS: This is not an official program but a province's initiative towards the incorporation of higher energy efficient measures in the housing units financed under RNH.

PRINCIPAL CONTACT(S): Gerry Levesque - Director of Development
K.C. Scott, President
N.B. Housing Corporation
P.O. Box 611
Industrial Park
Fredericton, New Brunswick
I3B 5B2
(506) 454-5563

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: New Brunswick.

TITLE OF PROGRAM: Home Improvement Program.

AGENCY RESPONSIBLE: New Brunswick Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To assist homeowner in meeting basic housing needs.

ELIGIBILITY: Homeowners with incomes of \$15,000 or less provided that the PIT on their property does not exceed 27% of gross income. The houses must be at least five year old and owner occupied (except in the case of senior citizens or the disabled). Mobile homes must be CSA approved.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides loans up to a maximum of \$7,500 repayable over a period of 15 years. The interest rate is eight percent. Senior citizens 60 years of age or older and the disabled receive the loan interest-free. The loans can usually cover major improvements, additions and mechanicals, (heating, plumbing, electricity). It can also cover conversions for senior citizens and disabled homeowners. In the case of mobile homes, it can cover mechanicals, permanent foundation, electrical hook up, well and septic tank or additions.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: This program supplements the CMHC - RRAP program and part of it is cost-shared by the Corporation.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$1,000,000 for 1981 (provincial
program)
\$7,000,000 for 1981 (joint program)
1.7000,000 for 1981 (CMHC program)

PROGRAM COMMENCED:

Provincial
program - 1972
Joint program -
1975
CMHC program -
1976

PROGRAM ENDS:

Indefinite
in the case
of the
provincial
program

CURRENT STATUS:

Approved loans	Loans	\$
<hr/>		
(a) Under provincial prog.		
1977-78	286	1,201,565
1978-79	208	845
1979-80	200	9,806
1980-81	158	752,392

Average loans 1980-81 - \$4,762

Approved Loans	Loans	\$
<hr/>		
(b) Under joint program		
1977-78	366	554,147
1978-79	821	1,898,000
1979-80	1,114	2,913,926
1980-81	1,069	3,029,170

Average loan 1980-81 - \$2,834

COMMENTS:

Clients undertaking heating
modifications are being advised to
consider the advantages of converting
to a combination system.

PRINCIPAL CONTACT(S):

Claude Bourgeois, Executive Director
Field Services
N.B. Housing Corporation
P.O. Box 611
Industrial Park
Fredericton, New Brunswick
I3B 5B2
(506) 454-5563

INITIATIVES RELIEES A LA CONSERVATION DE
L'ENERGIE DANS LE SECTEUR RESIDENTIEL

PROVINCE OU CANADA: Québec.

NOM DU PROGRAMME: Programme d'Isolation des maisons.

AGENCE RESPONSABLE: Bureau des économies d'énergie.

REGION ADMISSIBLE: A travers la province.

OBJECTIFS DU PROGRAMME: De permettre aux québécois d'habiter des résidences adaptées a la situation du marché relative à la conservation de l'énergie.

CRITERES D'ELIGIBILITE: Les propriétaires de maisons unifamiliales (détachées, jumelées, en rangée) construites avant le 1er janvier 1961 et qui servent de résidence principale.

MODALITES DU PROGRAMME: Une subvention non-imposable se chiffrant à 50% du coût des matériaux et de la main d'oeuvre jusqu'à un maximum de \$500. (Inclue une subvention de 50% jusqu'à un maximum de \$50 pour l'achat de chaque contreporte ainsi qu'un maximum de \$30 par ouverture pour les fenêtres et contre-fenêtres). Elle se rattache à la maison (non pas au propriétaire); et elle est cumulative, c'est-à-dire que le demandeur n'est pas forcé d'accumuler \$1000 de frais admissibles avant de demander la subvention de \$500. Il peut faire plusieurs demandes au fur et à mesure qu'il effectue les travaux.

ENGAGEMENT D'AUTRE AGENCE(S): Nul.

FONDS AUTORISES:

MISE EN OEUVRE: Mars 1978 FIN: 31 mars 1981

ETAT ACTUEL:	Année budgétaire	Subventions Accordées	Montant Accordées
	1978-79	4,169	1,503,478
	1979-80	25,097	6,302,132
	1980-81	53,060	12,600,000
	Total	82,326	20,405,610

Suvention moyenne globale - \$247.86
1980-81 - \$237.47

COMMENTAIRES:

Les programmes d'isolation fédéral et québécois sont complémentaires. Les frais admissible au programme québécois sont les frais non admissible par le programme fédéral. Le programme sera remplacé par le nouveau programme "Amélioration énergitique des habitations du Québec" au 1er Octobre 1981.

PERSONNE(S) CLEE(S):

Marise Lavoie-Rivest, Responsable du service à la clientèle
Jacques Mercier, Responsable du service du Programme d'Isolation des maisons.
Bureau des économies d'énergie
C.P. 91, Succursale Desjardins
Montréal, P.Q. H5B 1B2
(514) 873-7121

INITIATIVES RELIEES A LA CONSERVATION DE
L'ENERGIE DANS LE SECTEUR RESIDENTIEL

PROVINCE OU CANADA: Québec.

NOM DU PROGRAMME: Programme d'Amélioration énergétique des habitations du Québec.

AGENCE RESPONSABLE: Hydro Québec.

REGION ADMISSIBLE:

OBJECTIFS DU PROGRAMME: De visiter un million de résidences uni et multi-familiales au Québec sur une période de 8 ans.

CRITERES D'ELIGIBILITE: Tous les propriétaires et locataires d'habitations construites avant le 1er janvier 1976 seront graduellement admissible au programme. Au début, seulement les habitations construites avant le 1er janvier 1961 seront admissibles.

MODALITES DU PROGRAMME: Forme d'assistance technique et financière. Fournit au consommateur un bilan énergétique sur l'habitation, un relevé sur l'enveloppe thermique, un test de rendement sur le système de chauffage par combustion ainsi qu'une analyse des habitudes de consommation d'énergie du consommateur. Identifie les travaux rentables pour le consommateur - coûts des travaux, des économies et période de remboursement. Offre un bilan de financement au consommateur. Accorde des prêts de \$3,000 à taux préférentiels pour les unités uni-familiales; prêts remboursable sur une période de 5 ans.

ENGAGEMENT D'AUTRE AGENCE(S):

FONDS AUTORISES:

MISE EN OEUVRE: 1 Octobre 1981 FIN: 1989

ETAT ACTUEL: Stage de l'élaboration

COMMENTAIRES: Remplacera le Programme d'Isolation des
maisons administré par le Bureau des
économies d'énergie.

PERSONNE(S) CLEE(S): Raymond Godbout, Chef de projet
Programme d'Amélioration énergétique
des habitations du Québec
Hydro Québec
75 Ouest Dorchester
Montréal, P.Q.
H2Z 1A4
(514) 289-3848

INITIATIVES RELIEES A LA CONSERVATION DE
L'ENERGIE DANS LE SECTEUR RESIDENTIEL

PROVINCE OU CANADA: Québec.

NOM DU PROGRAMME: Programme de restauration SHQ -
Municipalités.

AGENCE RESPONSABLE: Société d'habitation du Québec.

REGION ADMISSIBLE: Régions urbaines.

OBJECTIFS DU PROGRAMME: De remettre les logements à un niveau
d'habitabilité vitale comme avec le
PAREL.

CRITERES D'ELIGIBILITE: Les propriétaires d'habitations uni ou
multi-familiales, les sociétés à but
non-lucratives ainsi que les
co-opératives sont éligibles au
programme.

MODALITES DU PROGRAMME: La subvention est établie à 25% des
coûts de restauration jusqu'à un
maximum de \$2,500. Le coût des travaux
de restauration ne doit pas être
inférieur à \$1,000,00 pour la première
unité de logement, ni à \$500,00 par
unité de logement additionnelle dans un
même bâtiment, ni excéder, pour fins de
calcul de la subvention, \$10,000,00 par
unité de logement faisant partie d'un
même bâtiment. Une fois les travaux
terminés, les habitations doivent
observer les règlements d'entretien et
d'occupation.

ENGAGEMENT D'AUTRE
AGENCE(S): Le coût des subventions est partagé à
part égale entre la SHQ et les
municipalités.

FONDS AUTORISES:

MISE EN OEUVRE: 1973 FIN: A l'entrée en
vigueur de
Loginove dans
chacune des
municipalités
concernées.

ETAT ACTUEL: Encore en vigueur pour quelques mois.

PERSONNE(S) CLEE(S): Marc Paradis, Directeur des Opérations.
Société d'habitation du Québec
Edifice G, Bloc. 2
4e étage
Québec, G1R 5E7
(418) 643-1593

INITIATIVES RELIEES A LA CONSERVATION DE
L'ENERGIE DANS LE SECTEUR RESIDENTIEL

PROVINCE OU CANADA: Québec.

NOM DU PROGRAMME: Loginove.

AGENCE RESPONSABLE: Société d'habitation du Québec.

REGION ADMISSIBLE: Les zones désignées aux fins du PAREL urbain.

OBJECTIFS DU PROGRAMME: De restaurer progressivement à travers tout le Québec, les unités d'habitations détériorés pour les rendre à un niveau acceptable d'habitabilité.

CRITERES D'ELIGIBILITE: Une personne physique, une personne morale ou une coopérative propriétaire d'un immeuble peuvent bénéficier de LOGINOVE. L'immeuble peut compter un ou plusieurs logements offerts en location ou occupés par leur propriétaire. L'immeuble devra nécessiter, pour corriger les défauts admissibles, des travaux de restauration d'un coût moyen d'au moins \$2,000,00 par logement.

MODALITES DU PROGRAMME: Pour obtenir une subvention le propriétaire doit corriger toutes les défauts relevés sur son immeuble. Parmi les défauts reconnus nous retrouvons celles reliées à l'électricité, au chauffage et à l'isolation. Le montant maximum des travaux reconnus pour fins de subventions est de \$13,000,00 en moyenne par logement. Le taux de subvention applicable aux travaux admissibles peut atteindre 75% dans le cas d'un logement occupé par le propriétaire de décroît selon le revenu

familial de celui-ci; dans le cas d'un logement loué, le taux peut atteindre 90%, il décroît à mesure que le loyer net du logement augmente et varie selon le nombre de pièces.

ENGAGEMENT D'AUTREAGENCE(S):

FONDS AUTORISES: \$25 million pour l'année 1981 (pour subventionner environ 6,000 logements).

MISE EN OEUVRE: 1er mai 1981 FIN: 1991

ETAT ACTUEL:

COMMENTAIRES: La partie non-remboursable obtenue sous le PAREL est soustraite de la subvention maximale disponible.

PERSONNE(S) CLEE(S): René Bergeron, Directeur
Loginove.
Société d'habitation des Québec
1995 Charest Ouest
Ste-Foye, P.Q.
G1N 4H9
(418) 643-6159

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Energy Conserving retrofits in assisted rental housing.

AGENCY RESPONSIBLE: Ontario Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: This is part of an on-going program to reduce energy consumption in the Corporation's portfolio of 84,000 dwelling units.

ELIGIBILITY: Limited to Public Housing.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Emphasis is on apartment buildings, and retrofits are selected to meet two criteria - payback under 5 years, and simple enough in concept and execution to be implemented in a very decentralized organization. Guidelines outline the retrofit, explain how to determine if a building is suitable for the retrofit, outline budget cost calculation, and energy savings calculation. For some retrofits, a Standard Specification is prepared from which contract prices can be obtained after adding certain 'site specific' details.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Some R & D assistance under the Housing Energy Management Program agreement with the Ontario Ministry of Energy. Capital costs carried if annual operating budgets, and shared by Federal and Ontario Governments under NHA Sections 40 and 44(1)(A).

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$10,000,000 to date.

PROGRAM COMMENCED:

1980

PROGRAM ENDS: On-going

CURRENT STATUS:

To date, (7) retrofits are underway:

Insulation of Attics (houses and low-rise apartments);
Garage ramp heater controls;
Corridor air supply and suite exhaust scheduling;
Fluorescent lighting for corridors;
Water saving devices;
Weatherstripping apartment buildings;
Control of car block heater power receptacles.

Five of the retrofits will be completed by 1982. The weatherstrip program is not yet underway. Other retrofits are being studied to determine feasibility and cost effectiveness (insulating frame walls, insulating basements, adding suite control valves, night set-back of boiler water temperature).

COMMENTS:

Only OHC properties are eligible for funding, but most of the engineering work is suitable for use by private apartment/condominium owners; and is freely available.

PRINCIPAL CONTACT(S):

Harry Sproule
Manager
Energy Systems
Ontario Housing
Corporation
101 Bloor St. W.
13th Floor
Toronto, Ont.
M5S 1P8
(416)965-0337

D.J. Beesley
General Manager
Ontario Housing
Corporation
101 Bloor St. W.
14th Floor
Toronto, Ont.
M5S 1P8

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Energy Consumption Reporting System (ECRS)

AGENCY RESPONSIBLE: Ontario Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: Designed to record and analyze energy consumption using actual energy consumption obtained from utility bills. Property Managers are thus informed as to which buildings are energy wasters. Also the program monitors the overall progress of the E/C program.

ELIGIBILITY: Restricted to OHC.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: ECRS covers 263 high-rise apartment buildings (defined as those with elevators) and 458 low-rise apartment buildings. Program inputs are (1) electricity, gas, and water utility bills (2) degree days for every location on daily basis (3) building data profile.

An audit report summarizes the energy used in each building, presents some analysis of how the energy was used, and ranks the performance of the building compared to others. Since space heating accounts for about half of all energy used in buildings, the audit report separates this from other uses of energy. Consumption, cost, energy index, and ranking are presented for 'heating' and 'non-heating' loads.

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Ontario Home Renewal Program (OHRP).

AGENCY RESPONSIBLE: Ontario Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: Any municipality may apply for OHRP funds through council resolution providing it is willing to adopt standards for maintenance.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The Housing Corporation provides capital grants to municipalities to administer directly as loans and/or grants of up to \$7 500 to owner-occupants whose adjusted family income is no greater than \$12 500. The rate of interest charged on loans is determined by the annual family income. Grants are paid to homeowners who upgrade the insulation standards in their homes.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1974 PROGRAM ENDS:

CURRENT STATUS:	<u>Grants</u>	<u>Number of Units</u>	<u>\$Millions</u>
	1978	5 680	20.9

Average Grant - \$3 680

PRINCIPAL CONTACT(S): C.B. Carr, Manager
Administration
Community Housing Director
Ontario Housing Corporation
101 Bloor St. West
12th Floor
Toronto, Ontario
M5S 1P8
(416)965-9649

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Evaluation of Radon and Air Quality Control Techniques.

AGENCY RESPONSIBLE: Ontario Ministry of Municipal Affairs and Housing, Denison Mines Ltd. and Rio Algom Ltd.

GEOGRAPHICAL LOCATION OF PROGRAM: Elliot Lake, Ontario.

OBJECTIVES OF PROGRAM: To evaluate the effectiveness of recommended techniques for controlling interior levels of radon daughters, moisture and other interior air contaminants consistent with energy conserving objectives.

ELIGIBILITY: Limited number of demonstration houses in Elliot Lake.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Appraisal of techniques to control interior levels of radon daughters emanating from the soil and from building materials in tightly built new construction indicates that it is integral to the issue of interior air quality. Since air circulation and change are fundamental to the solution, the evaluation program will seek to find a balance between energy conserving imperatives and acceptable interior air quality.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Denison Mines Ltd. and Rio Algom Ltd.

AUTHORIZED PROGRAM
FUNDING LEVELS:

To be determined.

PROGRAM COMMENCED:

Phase 1 of a 2 phased program was initiated in March, 1981.

CURRENT STATUS:

Phase 1 completed August 1981, Phase 2 evaluation program is currently being prepared. Completion scheduled for Spring, 1982.

COMMENTS:

PRINCIPAL CONTACT(S):

Donald D. Beveridge
Policy and Program Development
Secretariat
Ministry of Municipal Affairs and
Housing
Hearst Block
Queen's Park
Toronto, Ontario
M7A 2K5

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: "Weatherize"

AGENCY RESPONSIBLE: Ministry of Municipal Affairs & Housing.

GEOGRAPHICAL LOCATION OF PROGRAM: 4 Test Communities: Ottawa, Sault Ste. Marie, Cambridge, Peterborough.

OBJECTIVES OF PROGRAM: 1. Convince homeowners to "Seal their house first".
2. Develop better methodology and cost benefit packages for Ontario house types.
3. Better understanding of air leakage components and their contribution to total heat loss.

ELIGIBILITY: Selected homeowners for tests: All homeowners for results.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: 1. Test 60 houses for air tightness.
2. Weatherize by caulking and weatherstripping.
3. Circulate results in community over years period by pamphlets, posters, advertising, workshops for contractors, workshops for opinion leaders, aggressive pursuit of media opportunities.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: 1. Local hydro utilities and local municipality.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$150,000 year 1.

PROGRAM COMMENCED:

September 1981

September 1982

CURRENT STATUS:

Underway.

COMMENTS:

- . Detailed reports will be available from July '82
- . Interim report from November '81

PRINCIPAL CONTACT(S):

David Peters
Housing Renovation and Energy
Conservation Unit
7th Floor, 60 Bloor St. West
Toronto, Ontario
M4W 3K7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Energy Conservation Through Land Use Planning Grants.

AGENCY RESPONSIBLE: Ontario Ministry of Municipal Affairs and Housing.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To encourage municipalities to incorporate energy conservation into land use planning programs.

ELIGIBILITY: Any municipality with a population greater than 15,000.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Grants are available for 75% of study costs, to a maximum of \$50,000 per study, for land use planning studies which will incorporate energy conservation into planning documents, policies or procedures. Examples include Official Plan reviews, zoning by-law revisions, background studies to gather climatological or infill data, etc.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Ministry of Energy is providing initial funding for the program and assisting with application reviews.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1981 PROGRAM ENDS: To be
evaluated
in 1983.

CURRENT STATUS: \$250,000 budgeted for 1981/82 fiscal
year.

PRINCIPAL CONTACT(S): Central Region
Mark Heitshu, Manager
Community Planning Advisory Branch
47 Sheppard Ave. 2nd Floor
Willowdale, Ontario
M2N 2Z8
Telephone: (416) 224-7635
Zenith: 5-2650

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Community Planning Study Grants

AGENCY RESPONSIBLE: Ontario Ministry of Municipal Affairs and Housing.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To encourage municipalities to develop and review community planning programs.

ELIGIBILITY: Any municipality with a population of 15,000 or less.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Grants are available to pay a percentage of study costs for any community planning study. Studies which will incorporate energy conservation into planning programs, policies or procedures are eligible for 75% subsidy.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM FUNDING LEVELS:

PROGRAM COMMENCED: 1974

CURRENT STATUS: Grants totally \$8,164,149 have been given to 527 municipalities for 1044 studies.

COMMENTS: Studies directed to incorporating energy conservation into planning documents became eligible for funding in 1980.

PRINCIPAL CONTACT(S): Central Region
Mark Heitshu, Manager
Community Planning Advisory Branch
47 Sheppard Ave. 2nd Floor
Willowdale, Ontario
M2N 2Z8
Telephone: (416) 224-7635
Zenith: 5-2650

Southeastern Region
Shane Kennedy, Manager
Community Planning Advisory Branch
244 Rideau St. 3rd Floor
Ottawa, Ontario
K1N 5Y3
Telephone: (613) 566-3801
Zenith: 5-2650

Southwestern Region
Lou Spittal, Manager
Community Planning Advisory Branch
495 Richmond St., 7th Floor
London, Ontario
N6A 5A9
Telephone: (519) 673-1611
Toll Free: 1-800-265-4736

Northeastern Region
Krys Sowa, Manager
Community Planning Advisory Branch
1191 Lansing Ave.
Sudbury, Ontario
P3A 4C4
Telephone: (705) 560-0120
Toll-Free: 1-800-461-1193

Northwestern Region
Susan Taylor, Manager
Community Planning Advisory Branch
435 James St. South
Thunder Bay, Ontario
P7C 5G6
Telephone: (807) 475-1651
Zenith: 5-2650

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Community Energy Management
Demonstration Program.

AGENCY RESPONSIBLE: Ministry of Energy.

GEOGRAPHICAL LOCATION
OF PROGRAM: All Province.

OBJECTIVES OF PROGRAM: To encourage municipalities to
contribute to reducing energy
consumption, especially oil use, in all
sectors of the community by adopting
energy plans.

ELIGIBILITY: Municipalities with energy
coordinators.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Part of a community energy plan is to
provide leadership and information to
facilitate the adoption of good
practices throughout the community. Up
to 100% funding can be provided to
develop energy plans.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: Municipalities.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$280,000 81/82

PROGRAM COMMENCED:

October 1981

PROGRAM ENDS:

CURRENT STATUS:

COMMENTS:

PRINCIPAL CONTACT(S):

Jane Allen, Planner
Ministry of Energy
56 Wellesley Street W.
12th Floor
Toronto, Ontario
M7A 2B7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Solar Energy Program.

AGENCY RESPONSIBLE: Ministry of Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: All of Ontario.

OBJECTIVES OF PROGRAM: To develop solar energy technology and the solar energy industry.

ELIGIBILITY: Any group or organization in Ontario. Demonstrations of active systems must use approved collector panels.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Development of reliable cost effective technologies for appropriate markets with large potential energy yields, specifically:

- Passive solar heating
- Residential domestic hot water
- Commercial/industrial hot water and process heat
- Municipal swimming pool heating
- Agricultural applications

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Cooperation with other provincial agencies on specific projects. Also working with private sector groups such as HUDAC in the implementation of residential passive solar projects.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$50 million over five years.

PROGRAM COMMENCED:

October 1980

PROGRAM ENDS: 1985

CURRENT STATUS:

Proceeding.

COMMENTS:

See 'A Solar Energy Strategy for Ontario'.

PRINCIPAL CONTACT(S):

Roger Higgin, Director
Renewable Energy Branch
Sydney Johnson
Acting Solar Section Manager
56 Wellesley Street W.
12th Floor
Toronto, Ontario
M7A 2B7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: Residential Energy Advisory Program
(REAP)

AGENCY RESPONSIBLE: Ontario Hydro.

GEOGRAPHICAL LOCATION
OF PROGRAM: All Ontario.

OBJECTIVES OF PROGRAM: To provide advice and assistance on
improving energy efficiency and in
converting from oil.

ELIGIBILITY: All residences (not apartments).

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Two visits by energy advisors and
provision of five year loans up to
\$2,000 at Hydro's borrowing rate for:

- Safe electrical service of adequate
capacity
- Energy efficiency of the building
shell
- Heating system efficiency
improvements
- Conversion from oil

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: Local municipal electrical utilities in
urban areas.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: Sept. 1981 (Rural PROGRAM ENDS: 1991
Jan. 1982 (Municipal)

CURRENT STATUS: Implementation started.

COMMENTS:

PRINCIPAL CONTACT(S): Douglas Carl
Director, Energy Conservation
Ministry of Energy
56 Wellesley Street W.
12th Floor
Toronto, Ontario
M7A 2B7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Ontario.

TITLE OF PROGRAM: HEATSAVE

AGENCY RESPONSIBLE: Ministry of Energy.

GEOGRAPHICAL LOCATION OF PROGRAM: All Ontario.

OBJECTIVES OF PROGRAM: To assist homeowners in reducing energy consumption by interpreting aerial thermograms of their own homes and providing on-the-spot cost effective evaluation of retrofiting options.

ELIGIBILITY: All homeowners.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Clinics are held in communities of over 9,000. It is planned to visit 60 communities over a five year period.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Local partners, such as utility commissions and municipalities cooperate.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$4.9 million over five years.

PROGRAM COMMENCED:

September 1980

PROGRAM ENDS: 1985

CURRENT STATUS:

Clinics have been held in 13
communities.

COMMENTS:

PRINCIPAL CONTACT(S):

Douglas Carl
Director, Energy Conservation
John Quinn
Manager, Heatsave
56 Wellesley Street W.
12th Floor
Toronto, Ontario
M7A 2B7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Manitoba.

TITLE OF PROGRAM: Manitoba Homeowners Insulation Loan Program.

AGENCY RESPONSIBLE: Manitoba Hydro or Winnipeg Hydro.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: Energy Conservation.

ELIGIBILITY: Applies only to homeowners for detached and semi-detached units.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides loans up to \$1 000, at a 9.5 percent interest rate, for expenditures on insulation materials, related items, and labour.
Repayment term is up to 20 years.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The program is financed by the Province of Manitoba through the Department of Energy and Mines.

Contractors and Suppliers participating in the plan must furnish a \$5,000 performance bond or similar security to ensure a measure of protection for the consumer for a period of 3 years.

Consumer claims for faulty workmanship and/or materials are handled by Manitoba Housing and Renewal Corporation.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1977 PROGRAM ENDS:

CURRENT STATUS:	<u>Approvals</u>	<u>Loans</u>	<u>\$Millions</u>
July 1977 to		12 500	9.0
August 1981		19 000	14.0

Average Loan - \$737.20

COMMENTS: Program operates independently of Federal Insulation Programs. Applicants may receive both Federal and Provincial funding.

PRINCIPAL CONTACT(S):	Lawrence Baraniuk, Manager Customer Advisory Services	R.J. Linton Dir. of Business Business Operations
ADDRESS(ES):	Manitoba Hydro 820 Taylor Street P.O. Box 815 Winnipeg, Manitoba R3C 2P4 (204)474-3681	Winnipeg Hydro 5th Floor Civic Centre 510 Main St. Winnipeg, Manitoba R3B 1C1 (204) 946-0302

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Manitoba.

TITLE OF PROGRAM: Energy Efficient Housing Program.

AGENCY RESPONSIBLE: Manitoba Department of Energy & Mines.

GEOGRAPHICAL LOCATION OF PROGRAM:

OBJECTIVES OF PROGRAM: To encourage Manitoba's house-building industry to construct housing to an energy efficient standard, and thereby help Manitobans contend with rapidly rising energy costs.

ELIGIBILITY: Manitobans who purchase houses to be built to the standard later in 1981 when the program comes into effect. Eligibility guidelines for home purchasers wishing to apply for tax-free grants are to be announced.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Under the program 100 purchasers of houses built this year to an energy efficient standard now being established will receive a \$1 600 tax-free grant. This grant will be payable to the purchaser on completion of the house. Details of the energy efficient standard is to be announced.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

The Supplementary Estimates for the 1981 Manitoba Budget provides for a \$700 000 expenditure on the Manitoba Energy Efficient Housing Program.

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

The standard is in the process of being written by a firm of Winnipeg engineering consultants commissioned by the Manitoba Department of Energy and Mines. It is anticipated to be completed within three months.

COMMENTS:

The program is not retroactive and it will come into effect when the standard is completed. Application forms will be available simultaneously with the standard being publicly announced by the Department of Energy and Mines.

PRINCIPAL CONTACT(S):

K.L. Cruikshank
Sr. Energy Information Officer
Energy Information Branch
Manitoba Department of Mines and Energy
500 Portage Avenue
2nd Floor
Winnipeg, Manitoba
R3C 0E9
(204)282-8069

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Manitoba.

TITLE OF PROGRAM: Public Housing Energy Conservation Program.

AGENCY RESPONSIBLE: Manitoba Housing and Renewal Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To reduce the long term operating costs of Public Housing by increasing the energy efficiency of existing housing stock.

ELIGIBILITY: Limited to Public Housing.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The Corporation is researching and implementing projects to reduce the long term energy requirements of public housing projects comprising 3,000 units across the province. The work will address the building envelope and mechanical systems.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM
FUNDING LEVELS:

This program is to proceed in phases
with phase I budgeted at \$350,000.

PROGRAM COMMENCED:

PROGRAM ENDS: No specific
completion date
set.

CURRENT STATUS:

On-going

PRINCIPAL CONTACT(S):

Gae Burns	Doug Leies
Manager	Design and
Building	Technical Dept.
Services	Manitoba &
Manitoba Housing	Housing
& Renewal	Renewal
Corporation	Corporation
2nd Floor	2nd Floor
287 Broadway Ave.	287 Broadway Ave.
Winnipeg, Manitoba	Winnipeg, Manitoba
(204) 944-4676	(204) 944-4673

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Manitoba.

TITLE OF PROGRAM: Critical Home Repair Program.
Program.

AGENCY RESPONSIBLE: Manitoba Housing and Renewal
Corporation.

GEOGRAPHICAL LOCATION
OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To enable pensioners, disabled persons
and low-income families to undertake
critical home repairs.

ELIGIBILITY: Assistance is available to homeowners
whose income is less than \$10,000,
including pensioners, disabled persons
and low-income families. Housing units
must be at least 15 years old but
exceptions may be permitted where
emergency repairs are required for
health and safety reasons.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Provides grants of up to \$1,000 to
pensioners and to infirms or disabled
persons on provincial social
assistance. Also provides loans of up
to \$2,000 to low-income families with
up to \$1,000 forgivable at the rate of
\$200 for every year that the family
continues to own and occupy the home.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1975 PROGRAM ENDS:

CURRENT STATUS:	Approved Grants	No. of Units	\$ Mill.
	1977/78	5,292	5.0
	1978/79		2.4

Average grant - 1977-78 - \$944.82

PRINCIPAL CONTACT(S): Doug Hacking, Co-ordinator
Critical Home Repair Program
Manitoba Housing and Renewal
Corporation
2nd floor
287 Broadway Ave.
Winnipeg, Manitoba
(204) 944-2300

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Manitoba.

TITLE OF PROGRAM: Development and Demonstration of Renewable Energy and Energy Conservation Technologies.

AGENCY RESPONSIBLE: Manitoba Department of Energy and Mines.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: The objectives are threefold:
(i) to develop and demonstrate promising new technologies which, when widely adopted, will exploit renewable resources, conserve energy or make its use more efficient;
(ii) to encourage employment in new or existing energy related industries; and
(ii) to develop broad public awareness to the potential of renewable energy and conservation technology.

ELIGIBILITY: Proposals for demonstrations are welcome from all Manitobans: industry; consultants; Government Departments and agencies; municipalities; voluntary and non-profit organizations, individuals, associations, colleges and universities.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Energy conservation projects suitable for funding under the program must demonstrate technologies which will result in significant energy savings. These demonstrations may involve reductions in energy requirements for space heating, software for energy management, the efficient use of waste and low grade heat, or reductions in fuel requirements in transportation.

In the area of renewable energy resources, acceptable projects include technologies which demonstrate and develop low-head hydro electric potential, active and passive solar energy, wind, fuel, alcohol, peat, wood and other biomass resources.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

The program is co-funded by the Government of Canada through Energy, Mines and Resources and the Government of Manitoba.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$18,000,000 - total budget.

PROGRAM COMMENCED:

9 May 1980 PROGRAM ENDS: 31 March
1984

CURRENT STATUS:

Information on the current status including a complete list of projects and allocated funds will be made available in July 1981.

COMMENTS:

Applications can be initiated by submitting a detailed proposal to the Manitoba Department of Energy and Mines. Proposals should be concise and organized following program requirements.

PRINCIPAL CONTACT(S):

William McDonald
Lawrence Haberman, Director
Conservation and Renewable Energy
Manitoba Dept. of Energy & Mines
2nd floor
500 Portage Avenue
Winnipeg, Manitoba
(204) 944-3760

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Warm-up Saskatchewan.

AGENCY RESPONSIBLE: Saskatchewan Power Corporation. (A grown owned utility supplying all national gas and electric power except for Saskatoon and swift current.)

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To upgrade the energy conservation qualities of owner-occupied dwellings.

ELIGIBILITY: Limited to owner-occupied units including mobile homes. More than one application is possible for cumulative loans within the limit.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The provision of interest-free loans of up to \$1,000 (a minimum of \$100) to homeowners who wish to purchase and/or install materials for upgrading the energy conservation qualities of their home. Repayment term is up to three years and monthly payments are included in the homeowners S.P.C. energy bill.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funding is provided by Sask. Power Corporation. Applications are reviewed and units inspected by the Sask. Housing Corporation. The Sask. Dept. of Consumer and Corporate Affairs is responsible for the licencing and bonding of insulation contractors.

AUTHORIZED PROGRAM
FUNDING LEVELS:

As required.

PROGRAM COMMENCED:

1978

PROGRAM ENDS: 1982

CURRENT STATUS:

Loans approved to Dec. 1979	\$3,524
Jan. 1979 to Dec. 1980	1,908

Total to Dec. 1980	5,432
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Average Loan Amount	\$ 600
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COMMENTS:

Program operates independently of the Federal Insulation Programs. Applicants may receive both Federal and Provincial funding and funds from this program can be used as client contributions to CHIP and other related federal programs.

PRINCIPAL CONTACT(S):

Yvonne Reynolds, Communications Specialist
W. Gillard, Program Manager
Saskatchewan Power Corporation
2025 Victoria Avenue
Regina, Saskatchewan
S4P 0S1
(306) 527-7611

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Home Energy Loan Program.

AGENCY RESPONSIBLE: Saskatchewan Power Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To encourage the construction of energy efficient houses.

ELIGIBILITY: Program applies to first time purchase of certified, energy efficient homes. The homes may be single-detached or multiple unit dwellings except apartment condominiums. They must be owner-occupied. (To be certified homes must meet standards designed to reduce space heating requirements by 75% compared with conventional homes).

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides interest-free loans to a maximum of \$3,000 repayable over 10 years for residential units which are built according to specifications.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The Saskatchewan Department of Mineral Resources provides the funding and the Saskatchewan Housing Corporation, the technical advisory services and inspections.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$13,500,000 (est.).

PROGRAM COMMENCED:

1 July 1981 PROGRAM ENDS:

CURRENT STATUS:

On-going.

COMMENTS:

Application forms are distributed
through the Saskatchewan power
Corporation Offices.

PRINCIPAL CONTACT(S):

W. Gillard, Program Manager
Saskatchewan Power Corporation
2025 Victoria Avenue
Regina, Saskatchewan
S4P 0S1
(306) 527-7611

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Saskatchewan Conservation House.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Regina.

OBJECTIVES OF PROGRAM: To build a house of modest size at a reasonable cost with the maximum reasonable level of energy conservation in order to show that energy conservation could be applied to the type of housing that the average homeowner could afford.

ELIGIBILITY: The public and interested trades were encouraged to visit the house.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The construction and monitoring of an energy conservation house which:

- is suited to the extremes of the Saskatchewan climates,
- is market competitive as well as energy efficient,
- helps determine whether active solar energy is a viable energy source for single family dwellings in Saskatchewan
- stimulate the housing industry to incorporate energy conserving features into their housing developments,
- generate public interest and demand for energy conserving housing. The house was used partly for demonstrational purposes and partly for monitoring energy usage under typical family occupation.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

Saskatchewan Research Council
co-ordinated the design research on the
project under grants provided by the
Saskatchewan Housing Corporation.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: 31 October
1980

CURRENT STATUS:

The Saskatchewan Housing Corporation
has placed the Conservation House on
the open market.

PRINCIPAL CONTACT(S):

Wilf Stange or Stan Willox
General Manager
Office of Energy Conservation
Saskatchewan Housing Corporation
2024 Albert Street
Regina, Saskatchewan
S4P 3V7
(306)565-4197

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Residential Rehabilitation Program.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide (including large urban centers).

OBJECTIVES OF PROGRAM: To assist low-income homeowners who are not eligible for RRAP in carrying out essential repairs to their dwellings.

ELIGIBILITY: Homeowners with an adjusted family income of \$16,500 or less per annum. Repairs must be directly related to the occupied unit used as principal residence and approved by SHC before work is begun. Must be doing at least \$1 000 in work which will raise home to a standard acceptable to SHC.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The province provides low interest, 20 year loans of up to \$8,000 including a forgivable amount based on family income and the cost of repairs. The maximum forgiveness is \$2,500 and the borrower must continue to reside in the home for up to 5 years. The maximum authorization period is 20 years. The amount is repayable in monthly installments with interest at 8 7/8 per annum.

<u>Annual Adjusted Family Income</u>	<u>Present Forgiveness</u>
\$ 6 000 or less	60%
\$ 8 000	48%
\$10 000	30%
\$12 000	24%

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: None - (100% provincially funded)

AUTHORIZED PROGRAM
FUNDING LEVELS: \$5,800,000 for 1981 (Est.)

PROGRAM COMMENCED: Nov. 1973 PROGRAM ENDS:

CURRENT STATUS:	Residential Rehabilitation Loans	Number Paid	Amt. Committed \$	Amt. Forgiven \$
	1973 (Nov.&Dec.)	13	25,233	9,152
	1974	288	964,937	900,208
	1975	336	900,208	252,058
	1976	292	864,315	174,799
	1977	703	2,331,248	1,000,214
	1978	1,013	2,692,554	1,529,630
	1979	2,518	5,813,758	3,753,938
	1980	871	1,953,526	1,404,052
	Total	6,034	15,545,779	8,369,336

COMMENTS: This loan cannot be stacked with RRAP loans. However, senior citizens can combine the Residential Rehabilitation assistance with that of the Senior Citizen Home Repair Program to increase the amount of forgiveness.

PRINCIPAL CONTACT(S): Russ Krywulak
Saskatchewan Housing Corporation
2500 Victoria Avenue
Regina, Saskatchewan
S4P 3V7
(306) 565-4207

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Senior Citizens Home Repair.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To assist senior citizens who wish to make essential repairs to their own homes.

ELIGIBILITY: Senior Citizens 65 years of age or older at the time of application are eligible. Applicants must own and occupy the home being improved and the household income must not exceed \$7,000 for individuals and \$11,000 for couples.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The amount of the grant ranges from \$350 to \$650, depending on income and the cost of repairs. The grant is renewable every five years.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$1,200,000 for 1981.

PROGRAM COMMENCED:

1973
(Revised 1978)

PROGRAM ENDS:

CURRENT STATUS:

<u>Households Approved</u>	<u>Number</u>	<u>\$</u>
1973-75	20,077	6,515,990
1976	2,699	1,075,929
1977	1,224	526,953
1978	5,401	802,946
1979	9,315	6,944,950
1980	2,385	1,270,701
Total	41,101	17,137,469

COMMENTS:

This grant may be stacked with RRAP on the Saskatchewan Residential Rehabilitation Program.

PRINCIPAL CONTACT(S):

Russ Krywulak
Saskatchewan Housing Corporation
2500 Victoria Avenue
Regina, Saskatchewan
S4P 3V7
(306) 565-5066 (306) 565-4207

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Dept. of Northern Saskatchewan Home Improvement Grant.

AGENCY RESPONSIBLE: Department of Northern Saskatchewan.

GEOGRAPHICAL LOCATION OF PROGRAM: Northern Saskatchewan.

OBJECTIVES OF PROGRAM: To assist homeowners in converting oil furnaces to renewable energy sources or to maintain their homes in reasonable condition.

ELIGIBILITY: The applicant must own his or her own home, title to lot and/or have a minimum five year lease on the property. He/she must occupy the dwelling as higher principle place of residence. He/she must also have been a resident of the area for at least six months and must not have received the grant previously. As for RRAP, the applicants income must not exceed \$16,500.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides grants of up to \$2,500 per applicant, which is renewable after five years. A maximum of two grants is available. The grant may be used to convert oil furnaces to wood heating or other renewable energy sources, to install plumbing and heating, to install energy saving and to conduct repairs considered essential for the health and safety of the occupants.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM/
FUNDING LEVELS:

\$300,000 for the year 1981.

PROGRAM COMMENCED:

1969

PROGRAM ENDS: Indefinite

CURRENT STATUS:

186 grants were approved in 1980 for a value of \$286,000. The majority of grants were for \$1,500, the maximum available in 1980.

COMMENTS:

Grants may be stacked on RRAP where funding is insufficient, used as downpayment or for the rehabilitation of units that do not qualify for RRAP.

PRINCIPAL CONTACT(S):

Dennis Bespins, Manager
Rehabilitation and Grants Division
Department of Northern Saskatchewan
P.O. Box 3003
Prince Albert, Saskatchewan
(306) 922-2234

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Dept. of Social Services Housing Grants.

AGENCY RESPONSIBLE: Department of Northern Saskatchewan.

GEOGRAPHICAL LOCATION OF PROGRAM: Northern Saskatchewan.

OBJECTIVES OF PROGRAM: To assist Social Assistance recipients to carry out essential house repairs.

ELIGIBILITY: Residents of Northern Saskatchewan who are receiving Social Assistance.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides grants of \$500 approved locally or higher to be used for stacking on RRAP, as downpayments, or for the rehabilitation of units that do not qualify for RRAP, i.e., in the same manner as for the Department of Northern Saskatchewan Housing Grant. The Department of Social Services agrees to make the repayments for the clients.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The funding is provided by the Department of Social Services.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

On-going

COMMENTS:

The Department of Northern Saskatchewan administers the program providing expertise with respect to repairs that are required and cost estimates. The Department of Social Services Grants are not used extensively as the Home Improvement Grant usually provides sufficient assistance.

PRINCIPAL CONTACT(S):

Dennis Bespins, Dept. of Social
Manager Services
Rehabilitation and Lac Laronge
Grants Division
Dept. of Northern
Saskatchewan
P.O. Box 3003
Prince Albert, Saskatchewan
(306) 922-2234

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: In-Fill Rehabilitation Program.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Regina.

OBJECTIVES OF PROGRAM: To rehabilitate houses and make them suitable for habitation.

ELIGIBILITY: Delapidated houses in depressed areas.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: SHC purchases houses in the core of the city CMHC's maximum unit prices are used to determine where it is economical to rehabilitate. Any rehabilitation includes retrofitting and incorporates a number of energy efficient measures. The rehabilitated units are rented out.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1980 PROGRAM ENDS: Indefinite

CURRENT STATUS: SHC purchased 28 houses up to May 1981. Renovation was started around March of 1981 and is expected to be completed by the end of the summer.

PRINCIPAL CONTACT(S): Leo Gaski, Executive Director of
Buildings
Sask. Housing Corporation
2500 Victoria Avenue
Regina, Saskatchewan
S4P 3V7
(306)

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Property Tax Rebate.

AGENCY RESPONSIBLE: Saskatchewan Dept. of Urban Affairs.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To alleviate the burden of property taxes and rent.

ELIGIBILITY: Owners of property - residential and other - are eligible for the Property Improvement Grant. Renters are eligible for the Renters Rebate Grant. Senior Citizens owners 65 years or older are eligible for the Senior Citizen Rebate and the Property Improvement Grant. Applicants must have lived in their principle residence (or rented accommodation in the case of the Renters Rebate) for at least six months.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The program consists of three sub-programs. The Property Improvement Grant rebates one half of the taxes to a maximum of \$230 on the principle in the case of residential property or an amount equal to 25 mills on the tax assessment in other cases. The maximum overall grant is \$375. The Renters Rebate provides grants equal to five percent of the annual rent, not to exceed \$115. The Senior Citizen School Tax Rebate is equal to one-half of the school taxes paid on the principal residence plus an additional amount up to a maximum of \$230.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: Property PROGRAM ENDS:
 Improvement Grant
 1968
 Other rebates 1979

CURRENT STATUS:	Property Improvement Grants Allocated	Units	\$ Mill
	1979-80	85,000	7.5

PRINCIPAL CONTACT(S): Henry Kutorna, Director
 Property Tax Rebate
 Sask. Dept. of Urban Affairs
 2024 Albert Street
 Regina, Saskatchewan
 S4P 3N3
 (306) 565-2681

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Saskatchewan Retrofit Program.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL LOCATION
PF PROGRAM:

Selected rural locations - One house in each of the following centres - Prince Albert, Weyburn, Swift Current, Yorkton, Moose Jaw, and one rural location.

OBJECTIVES OF PROGRAM:

- (a) to produce comprehensive public information regarding feasible retrofit measures, techniques, costs, benefits, payback periods and potential problems for a wide range of house types and ages;
- (b) through visible demonstration inform, educate and stimulate the public regarding the feasibility and economic benefits of making physical changes to existing housing to reduce energy requirements for space heating;
- (c) to provide such a demonstration to as large a proportion of the Saskatchewan public as possible; and
- (d) to increase the level of knowledge and expertise in that sector of the construction industry which is involved in retrofit work.

ELIGIBILITY:

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED:

The province purchased on the open market and repaired six houses of various types and ages to demonstrate how proper retrofit techniques can reduce home heating costs. The houses were to be analyzed, a retrofit design prepared by consultants and retrofit construction carried out by a local construction company. The houses were then to be opened for demonstration. Each house in addition to demonstrating its own features, will exhibit displays of the other five houses. After the demonstration period the houses will be put back on the market for re-sale.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

A joint project of Saskatchewan Mineral Resources, Energy, Mines and Resources Canada and the Saskatchewan Housing Corporation. The project is managed by SHQ with assistance from advisory committees. EMR is responsible for the builder training and public demonstration elements.

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$325 000.

PROGRAM COMMENCED:

PROGRAM ENDS:

COMMENTS:

The houses were expected to be open for demonstration for one year beginning August 1980.

PRINCIPAL CONTACT(S):

Saskatchewan Housing Corporation.
2024 Albert Street
Regina, Saskatchewan
S4P 3V7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Saskatchewan.

TITLE OF PROGRAM: Conservahome Housing Program.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL LOCATION
OF PROGRAM:

OBJECTIVES OF PROGRAM: To demonstrate methods by which existing homes can be retrofitted to become more energy efficient.

ELIGIBILITY:

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Six housing units will be retrofitted to include the following energy conservation measures:

- . increased insulation levels;
- . vapour barriers, decreased infiltration levels and air-to-air heat exchangers;
- . energy-efficient furnaces, add-on wood burning units and combination furnaces;
- . hot water pre-heat systems;
- . higher efficiency lighting system and appliances.

The completed units will be used for demonstration for a period of one year after which they will be sold.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: A joint venture of SHC and the Department of Mineral Resources. The Saskatchewan Research Council is contracted to select 6 suitable homes, to design construction work for each

unit and to provide technical advice when requested by the SHC. The construction work will be contracted out by public tender. Work progress and quality of workmanship will be monitored by the SHC, upon completion of the construction phase the SHC will take over the projects and ensure that all legal, financial and operational aspects are in order.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

PRINCIPAL CONTACT(S): Wilf Stange
Office of Energy Conservation
Saskatchewan Housing Corporation
2024 Albert Street
Regina, Saskatchewan
S4P 3V7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Public Information Programs.

AGENCY RESPONSIBLE: Alberta Energy & Natural Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: Dissemination of Energy Conservation infamiliar.

ELIGIBILITY: General.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: A number of general public information programs are underway which provide information to homeowners and school children in the area of wise energy use in the home and personal transportation. Symposiums are organized in the area of energy conservation.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

Program is ongoing. Hundreds of thousands of publications have been requested and made available to Albertans. The Branch is currently involved in an expansion of activities directed at wise energy use in the home, personal transportation and industry.

COMMENTS:

Proceedings are available for the "Energy Efficient Housing Symposium" held in Nov. 1980. The purpose was to review the current status of energy efficient housing in Canada, U.S. and Sweden. Major topics included the building envelope, the mechanical systems and occupant related energy considerations.

PRINCIPAL CONTACT(S):

Ian Burn, Director
Energy Conservation Branch
Alberta Energy and Natural Resources
9915 - 108 Street
Edmonton, Alberta
T5K 2C9
(403) 427-6902

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Alberta - Canada Energy Research and Development.

AGENCY RESPONSIBLE: Alberta Energy & Natural Resources.

GEOGRAPHICAL LOCATION OF PROGRAM: Alberta

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Financial assistance is provided to builders to develop innovative energy saving designs and systems to pay for extraordinary construction expenses attributable to energy saving features and to pay the costs of demonstration.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Jointly funded by the Governments of Alberta and Energy, Mines and Resources, Canada. The Housing and Urban Development Association of Canada (HUDAC) is involved in research for the "Energy Efficient Housing Demonstration Project" and the University of Alberta with respect to Assessment of Solar Heating Techniques in Housing".

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$300 000 provided by the provincial government to builders of energy efficient homes in 1987.

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

Program includes the

- (i) Energy Efficient Housing Demonstration Project - provided financial assistance to builder to construct ten energy efficient homes in 1981 - Project completion expected in Fall 1981,
- (ii) Assessment of Solar Heating Techniques in Housing - involves six test homes. Testing has been carried out since 1979 and completion is scheduled for Summer 1982.

PRINCIPAL CONTACT(S):

R.D. McDonald
Research Manager
Scientific &
Engineering
Services
Alberta Energy &
Natural Resources
9915 - 108 Street
Edmonton, Alberta
T5K 2C9
(403)427-3731

Dr. Peter J. Dyne
Director
Office of Energy
Research and
Development
Energy Mines &
Resources
580 Booth St.
Ottawa, Ontario
K1A 0E4
(613)992-3738

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Innovative Housing Grant Program.

AGENCY RESPONSIBLE: Alberta Housing and Public Works.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To assist research and innovation in the areas of housing costs, energy efficiency, and the viability of alternative forms of housing.

ELIGIBILITY: Developers, house-builders, municipal governments institutions, non-profit groups, and individuals are eligible for assistance.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Assistance may be provided for research, design, development, testing, demonstration, and upon occasion construction associated with innovative proposals.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

\$200,000 in 1981.

PROGRAM COMMENCED:

1978

PROGRAM ENDS: Ongoing

CURRENT STATUS:

Approximately 25 projects were funded under this program to date. Some of these deal with energy conservation in housing.

PRINCIPAL CONTACT(S):

Brian Quickfall
Assistant Deputy Minister
Financial Assistance Division
Alberta Housing & Public Works
3rd Floor, 100-112 Street
Edmonton, Alberta T5K 2J1
(403)

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Housing Research and Development Program.

AGENCY RESPONSIBLE: Alberta Housing and Public Works.

GEOGRAPHICAL LOCATION OF PROGRAM:

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The scope of the program is housing design, planning and technology and it is expected to include work on energy conservation in housing, if implemented.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Background research and program proposal undertaken by Visker Skaburskis Planners. No other government or agencies involved.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: July 1981

CURRENT STATUS:

Proposal development underway.

PRINCIPAL CONTACT(S):

Linden Holmen, Director
Planning and Research
Alberta Housing & Public Works
10th Floor, 10050-112 Street
Edmonton, Alberta T5K 2J1
(403) 427-8150

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Pioneers Repairs Program.

AGENCY RESPONSIBLE: Alberta Housing and Public Works.

GEOGRAPHICAL LOCATION
OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: Senior citizens (65 years of age or older) who live in their homes nine months of the year and whose total annual income does not exceed \$12,000.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Provides grants to a maximum of \$2,000 for permanent repairs or improvements to their own home or garage including alterations.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: July 1981

CURRENT STATUS:

Provided grants for 55,000 units (est.)
over a five year period.

PRINCIPAL CONTACT(S):

Director, Pioneers Repair Program
11156 Jasper Ave. Main Fl.
P.O. Box 2453
Edmonton, Alberta E5K 3B8
(403) 427-5760

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Home Conversion Program.

AGENCY RESPONSIBLE: Alberta Housing and Public Works.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide. Applies to all municipalities in the province.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: Owners who convert part or all of their home to self-contained suites or light housekeeping rooms are eligible for low interest loans. To qualify for both the guaranteed loan and the subsidy, an owner must rent the converted suite or room for at least six months in the first year after renovation and for a minimum of nine months each following year.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Guaranteed loans of up to \$10,000 are available through participating financial institutions to cover renovation costs. The loans are renewable annually and have a 10 year amortization period. Subsidies are provided by the Alberta Housing and Public Works Department to reduce the interest rates on loans to 12 percent. Subsidies are provided for a maximum of five years.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The Alberta Housing and Public Works Department provides interest-reduction subsidies. Loans provided by financial institutions.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

Provided 500 (est.) conversions in the
first year of operation.

PRINCIPAL CONTACT(S):

Director, Home Conversion Program
Alberta Housing & Public Works
10050 - 112th Street, 3rd Floor
Edmonton, Alberta
T5K 1L9
(403) 427-4143

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Senior Citizens Housing Lodges.

AGENCY RESPONSIBLE: Alberta Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: Any senior citizen of 65 years of age or older who has resided in Alberta one year prior to application for accommodation, is eligible. There are no asset or income limits.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: AHC finances 100% of the construction costs of new lodging, including all furnishings and fixtures, and provides assistance towards upgrading or increasing the size of existing projects. Renovations are mainly structural, but partly related to energy conservation. The rates for room and board are set by AHC.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Non-profit corporations, municipalities and senior citizens foundations are responsible for the administration of self-contained units. The governments of Alberta and Canada share equally the operating deficits.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:	Units financed	Number	\$ Mill
	<u>1978-79</u>	<u>1062</u>	<u>41.7</u>

Average unit cost \$39,265

PRINCIPAL CONTACT(S):

Mr. MacMath, Director
Doug Brown, Property Manager
Property Management Services
Alberta Housing Corporation
90405 - 50th St.
Edmonton, Alberta
T6B 2T4
(403) 468-3535

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA; Alberta.

TITLE OF PROGRAM: Farm Home Planning Course - New Home Planning and Construction or Remodelled Home Planning and Construction.

AGENCY RESPONSIBLE: Alberta Agriculture.

GEOGRAPHICAL LOCATION OF PROGRAM:

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: A home study course which includes material on energy use, passive solar housing design, and energy conservation techniques, materials and equipment.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS:

CURRENT STATUS:

Ongoing.

PRINCIPAL CONTACT(S):

Donna Bagdan
Alberta Agriculture
Rural Education Development Association
9934 - 106 Street
Edmonton, Alberta

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: Alberta.

TITLE OF PROGRAM: Solar and Wind Energy Research Program (SWERP).

AGENCY RESPONSIBLE: Alberta Research Council.

GEOGRAPHICAL LOCATION OF PROGRAM: Locations throughout province.

OBJECTIVES OF PROGRAM:

- . To establish and maintain an information control on Solar and Wind energy.
- . To assess the potential of Solar and Wind energy using sophisticated instrumentation.
- . To demonstrate and develop a program in Solar and Wind energy relevant to the west Canada climate.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Six monitoring stations have been established across the province to examine:

Solar . North, East, West and South direct radiation, ground reflected and skyward horizontal.
. net and diffuse radiation.

Wind . Wind speed, direction and temperature at a 10 meter heights.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Fully funded by Alberta Energy and National Resources, Energy Resources Research Fund (ERRF).

AUTHORIZED PROGRAM
FUNDING LEVELS:

1981/82 \$354,000.
Total to date \$1,300,000.

PROGRAM COMMENCED:

PROGRAM ENDS: March 1982

CURRENT STATUS:

The information centre was established to serve Albertans, but enquiries are received from all parts of Canada and from abroad.

COMMENTS:

Provincial funding for this program only continues to March 1982 although this could be extended.

Other sources of financial support are being examined.

PRINCIPAL CONTACT(S):

Bernie Luft
Project Manager
Solar and Wind Energy Research Program
Alberta Research Council
5th Floor, Terrace Inn Office Four
4445 Calgary Trail South
Edmonton, Alberta
T6H 5R7

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: British Columbia.

TITLE OF PROGRAM: B.C. Hydro Energy Savings and Finance.

AGENCY RESPONSIBLE: British Columbia Hydro.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To assist homeowners in insulating their homes.

ELIGIBILITY: Applies to homeowners of detached and semi-detached residential units who have an account in good standing with B.C. Hydro. Eligible for one loan only.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides loans up to \$500 for expenditures on insulation materials, related items (including windows), and labour. The interest rate is 10 percent on a reducing monthly balance. Repayment term is up to two years.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Authorized contractors or do-it-yourself customers.

AUTHORIZED PROGRAM
FUNDING LEVELS:

No limit.

PROGRAM COMMENCED:

1977

PROGRAM ENDS: Reviewed
annually

CURRENT STATUS:

<u>Loans approved</u>	<u>Units</u>	<u>\$</u>
Sept. 1977 to April 1981	13,673	\$5,987,833
Average loan		\$437.93

COMMENTS:

Program operates independently of the Federal Insulation Programs; it supplements the federal programs. Applicants may receive both Federal and Provincial Funding.

PRINCIPAL CONTACT(S):

Bob Martin, Manager
Energy Communications Division
B.C. Hydro and Power Authority
625 Howe St., 6th Floor
Vancouver, B.C. V6C 2T6
663-3253

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: British Columbia.

TITLE OF PROGRAM: Home Conversion Loan Program.

AGENCY RESPONSIBLE: Ministry of Land, Parks and Housing.

GEOGRAPHICAL LOCATION
OF PROGRAM: Designated Areas.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: Persons and corporations wishing to
convert family dwellings into duplexes
or multi-unit accommodation.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Provides loans of \$15,000 for the first
unit and of \$9,000 for each additional
unit.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1974 PROGRAM ENDS:

CURRENT STATUS:	Approved Loans	No. of Units	\$ Mill.
	<u>1979</u>	<u>42</u>	<u>.499</u>

PRINCIPAL CONTACT(S): Doug Ausman, Director of Housing
Andrew Armitage, Ass't Deputy Minister
B.C. Ministry of Land, Parks & Housing
Parliament Buildings
Victoria, B.C.
B8W 2Y5
(604) 387-5381

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: British Columbia.

TITLE OF PROGRAM: Energy Education Program.

AGENCY RESPONSIBLE: B.C. Hydro.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To help students from kindergarten through high school become "energy literate".

ELIGIBILITY: All schools in Province.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Program identified and developed, through input from teachers and specialists, teaching aids on energy and conservation which teachers can use in conjunction with existing curriculum.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Various teachers groups, Provincial Ministry of Energy Mines and Petroleum Resources, and energy suppliers provided input to program.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1979 PROGRAM ENDS:

CURRENT STATUS: Primary - kindergaten to Grade 3 -
distributed
Intermediate - Grades 4 - 7 -
distributed
Secondary - Grades 8 - 12 inclusive -
being printed.

COMMENTS: Overwhelming response from teachers
commending top quality, professional
material. Material has been reprinted.

PRINCIPAL CONTACT(S): D.G. Flett
B.C. Hydro
19th Floor
970 Burrard Street
Vancouver, B.C.
V6Z 1Y3
Telephone: (604) 663-3809

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: British Columbia.

TITLE OF PROGRAM: Thermography

AGENCY RESPONSIBLE: B.C. Hydro.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To create public awareness of importance of adequate home insulation and to provide owners of commercial buildings with specific information on roof integrity.

ELIGIBILITY: All buildings flown over in B.C. Hydro service area.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: 11" x 14" photographic prints are prepared from electronic infra-red aerial scan of area. Prints are labelled with street names and displayed in shopping malls of area surveyed along with information on insulation double glazing.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Initial fly-over used Federal Government assistance. Thermograms are processed in Ottawa.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: November 1977 PROGRAM ENDS: 1981

CURRENT STATUS: Most of the urban areas of British Columbia have been flown over. Good attendance at displays.

COMMENTS: Program has created considerable public interest over the four years of its operation.

PRINCIPAL CONTACT(S): W. Barchard
B.C. Hydro
Energy Conservation Division
625 Howe Street
Vancouver, B.C.
V6G 2T6
Telephone: (604) 663-3273

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: British Columbia.

TITLE OF PROGRAM: Advisory Programs

AGENCY RESPONSIBLE: B.C. Hydro.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To provide information and guidance to Hydro customers on options available in Energy Conservation.

ELIGIBILITY: All Hydro customers.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:

1. Audit program provides analysis of energy use in customer's residence. Uses computer to analyse insulation and glazing.
2. Energy Efficient Home Planning Kit - provide packages on Heating Water Heating, Appliances, Lighting, and Solar system.
3. Home Care and Use booklets provide information on efficient and effective utilization of all home appliances.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

Varies with program demand.

PROGRAM COMMENCED:

1976

PROGRAM ENDS: On-going

CURRENT STATUS:

All programs on-going - promoted at various displays and shows held throughout B.C. such as, PNE' Home Show, shopping mall displays, etc. Material advertised in magazines.

COMMENTS:

Very successful.

PRINCIPAL CONTACT(S):

R.T. Martin
B.C. Hydro
Energy Communication Department
6th Floor - 625 Howe Street
Vancouver, B.C.
V6C 2T6
Telephone: (604) 663-3253

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: British Columbia.

TITLE OF PROGRAM: Save Energy - save Money - Lighting Program.

AGENCY RESPONSIBLE: B.C. Hydro.

GEOGRAPHICAL LOCATION OF PROGRAM: Province-wide.

OBJECTIVES OF PROGRAM: To provide recommendations for energy conserving lighting based on a computerized analysis of lighting systems in apartments and other buildings to provide alternatives based on reduced energy and life cycle costing.

ELIGIBILITY: Apartment owners, merchants and other commercial buildings.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: An information package is given participant who completes a questionnaire which is analysed by computer and recommendations are returned to customer. Package includes information on lighting maintenance, control and recommended systems.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

Varies with program demand.

PROGRAM COMMENCED:

1978

PROGRAM ENDS:

CURRENT STATUS:

PRINCIPAL CONTACT(S):

Manuel Carabott
B.C. Hydro
7th Floor - 625 Howe Street
Vancouver, B.C.
V6C 2T6
Telephone: (604) 663-3981

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: The Yukon Territory.

TITLE OF PROGRAM: Public Housing Stock Thermofit.

AGENCY RESPONSIBLE: Yukon Housing Corporation.

GEOGRAPHICAL LOCATION
OF PROGRAM: Yukon.

OBJECTIVES OF PROGRAM: To upgrade the thermal efficiency of
the Corporation's housing stock.

ELIGIBILITY:

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Upgrading measures undertaken include
increasing attic insulation, framing
and insulating concrete basements,
insulating floor areas over open crawl
spaces, caulking and weatherstripping.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED: 1979 PROGRAM ENDS: 1985

CURRENT STATUS: Some units completed each year.

PRINCIPAL CONTACT(S): Don Ilich
Yukon Housing Corporation
203A Main Street
Whitehorse
The Yukon Territory
(403) 667-5758

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: The Yukon Territory.

TITLE OF PROGRAM: Individual Thermogram Analysis.

AGENCY RESPONSIBLE: Yukon Housing Authority.

GEOGRAPHICAL LOCATION
OF PROGRAM: Yukon.

OBJECTIVES OF PROGRAM:

ELIGIBILITY: Owners of homes, apartment buildings,
schools and other public buildings.

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Hand held thermogram analysis was
conducted for homes, apartment
buildings, schools and other public
buildings. The results of the
thermograms were analysed to provide
advice to owners on how to best improve
their building's thermal efficiency.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: 1979

CURRENT STATUS:

PRINCIPAL CONTACT(S):

Wayne Wilkinson, Don Ilich
Yukon Housing Corporation
203A Main Street
Whitehorse
The Yukon Territory
(403) 667-5758

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: The Yukon Territory.

TITLE OF PROGRAM: Aerial Thermography of homes.

AGENCY RESPONSIBLE: Yukon Electrical Company Limited.

GEOGRAPHICAL LOCATION
OF PROGRAM: Yukon.

OBJECTIVES OF PROGRAM:

ELIGIBILITY:

DESCRIPTION OF PROGRAM
AND ASSISTANCE OFFERED: Aerial thermography was used in
conjunction with the hand held
technique used in another project to
supplement information to homeowners on
insulating attics.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES: Related to the Individual Thermogram
Analysis project under the Yukon
Housing Authority.

AUTHORIZED PROGRAM
FUNDING LEVELS:

PROGRAM COMMENCED:

PROGRAM ENDS: 1979

CURRENT STATUS:

PRINCIPAL CONTACT(S):

Don Ilich
Yukon Housing Corporation
203A Main Street
Whitehorse
The Yukon Territory
(403) 667-5758

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: The Northwest Territories.

TITLE OF PROGRAM: All Assisted Housing Programs.

AGENCY RESPONSIBLE: The Northwest Territories Housing Corporation.

GEOGRAPHICAL LOCATION OF PROGRAM: The Northwest Territories.

OBJECTIVES OF PROGRAM: The NWTHC approximately 40 per cent of all housing in the NWT. Energy consumption rates are high due to the climate, and costs at least double those of southern Canada. A major objective of all NWTHC programs is to achieve high energy conservation levels.

ELIGIBILITY: Assisted housing programs are available to all low-income people in the Territories.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: 1) Seven energy efficient homes of experimental design are being constructed to test new construction methods and mechanical systems design. These homes are expected to be at least 45% more energy efficient than 1978 units. The results of this experiment will be closely monitored and successful techniques will be carried over into future construction. This program is valued at \$700,000.

2) Rehabilitation programs that will improve energy efficiency include extensively upgrading 216 units,

modifying an additional 52 units, and constructing 800 sheltering porches. The total value of this work is \$6,200,00.

- 3) Tenant energy conservation is promoted through the distribution of education material. Brochures describe the proper use of major appliances in the home and how to save energy generally. "Turn your lights off" stickers are provided for placement next to light switches. All printed material is available in both Inuktitut and English. This program is valued at approximately \$10,000.
- 4) The Corporation will adopt a form of "tenant user pay" for power billings at the same time that similar measures are introduced in G.N.W.T. staff units. A subsidized rate per KWH will be charged to each tenant as determined by the local Housing Association within guidelines set by the Corporation.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

Territorial Housing programs are cost shared with CMHC.

AUTHORIZED PROGRAM
FUNDING LEVELS:

Approximately \$7,000,000 will be invested in energy related aspects of energy conservation in 1980/81.

PROGRAM COMMENCED:

PROGRAM ENDS: On-going

CURRENT STATUS:

On-going..

COMMENTS:

PRINCIPAL CONTACT(S):

Northwest Territories Housing
Corporation
P.o. Box 2100
Yellowknife
(403) 873-7853

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: The Northwest Territories.

TITLE OF PROGRAM: Energy Conservation Capital Projects.

AGENCY RESPONSIBLE: Department of Public Works, Government of the NWT.

GEOGRAPHICAL LOCATION OF PROGRAM: Northwest Territories.

OBJECTIVES OF PROGRAM: To initiate a series of projects to conserve energy and reduce energy expenditures.

ELIGIBILITY: Departments and Agencies of the G.N.W.T.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: See current status.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM FUNDING LEVELS: The Department is spending 2.5 million dollars for energy conservation capital projects in 1981/82 exclusive of manpower costs in the region. In addition, 1 - 2 head-quarters man years are dedicated to conservation program design and delivery. This level of energy conservation is budgeted to continue over the foreseeable future.

PROGRAM COMMENCED:

PROGRAM ENDS: On-going

CURRENT STATUS:

There are 5 Capital projects now underway which include items such as:

- eliminating unnecessary lighting and changing lamps to fluorescent
- replacement of most electric hot water heaters with oil fired heaters
- improving combustion efficiency of furnaces
- reducing the volume of ventilation air in all major buildings
- recovery of waste heat from some N.C.P.C. diesel generators
- improving building insulation

COMMENTS:

The Department is proposing to transfer funding and responsibility for utility charges to individual departments.

The Department promotes the practice of considering future energy costs in the design decisions for new buildings. Use of design "rules of thumb" commonly used in the south are discouraged. Rather, design decisions must be made on the basis of life cycle costing practices.

The Department is preparing proposals for N.C.P.C. with a view to establishing a more equitable sharing of the benefits that accrue from heat reclamation projects.

PRINCIPAL CONTACT(S):

Director
Department of Public Works
Yellowknife, NWT
(403) 873-7114

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: The Northwest Territories.

TITLE OF PROGRAM: Energy Conservation Demonstration Program.

AGENCY RESPONSIBLE: Department of Public Works, Government of the NWT.

GEOGRAPHICAL LOCATION OF PROGRAM: Northwest Territories.

OBJECTIVES OF PROGRAM: Through the Energy Conservation Division, the Department provides assistance to demonstration projects that involve replacing the use of non-renewable energy with an economically viable renewable supply. Projects must use technology that is proven but is yet untried in the N.W.T.

ELIGIBILITY: Departments and Agencies of the G.N.W.T.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

AUTHORIZED PROGRAM
FUNDING LEVELS:

Projects being implemented now include wood gasification for Fort Providence, and several solar applications. There are eleven projects currently underway valued at \$703,500.

PROGRAM COMMENCED:

PROGRAM ENDS: On-going

CURRENT STATUS:

The Division is sponsoring the development of this government's energy conservation public awareness campaign as well as funding publicity for the demonstration programs.

The Division has purchased a thermography device used to detect heat loss from a great variety of structures. This device is available to all departments, the Housing Corporation and private industry.

The Division is sponsoring an energy week in Frobisher Bay to force attention on energy and to stimulate lasting conservation schedules for October, 1981, this program will be directed at students and the public at large, include:

COMMENTS:

The Petroleum Products Division of the Department is responsible for the supply and distribution of liquid fuels in thirty-eight remote settlements. The division also assures that storage and delivery facilities in these communities are adequately planned, constructed and maintained. In every respect, the Division fills the role of the fuel oil wholesaler and retailer in communities not serviced by private enterprise.

PRINCIPAL CONTACT(S):

Director
Department of Public Works
Government of The NWT
Yellowknife, NWT
(403) 873-7114

INITIATIVES IN DOMESTIC ENERGY CONSERVATION

PROVINCE, OR CANADA: The Northwest Territories.

TITLE OF PROGRAM: Energy Conservation Policy Development.

AGENCY RESPONSIBLE: Department of Local Government.
Department of Information.
Department of Education.

GEOGRAPHICAL LOCATION OF PROGRAM: Northwest Territories.

OBJECTIVES OF PROGRAM: General Policy and program initiatives to reduce the consumption and cost of energy.

ELIGIBILITY: Departments and Agencies of the G.N.W.T.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The Department of Local Government encourages Hamlet Councils to conserve energy by relating information on successful D.P.W. conservation projects through their Local Government field officers. The Department hopes to reduce the large portion of the 8 million dollars in Hamlet grants that now goes to energy purchases of various kinds (1980/81).

In 1981/82 the Department has established a capital spending program with a view to saving energy through building upgrade and appliance conversion in Baffin and Keewatin Regions, totalling \$120,000.

The Department is preparing an energy policy that will include:

- recommended municipal bylaws dealing with town planning, siting, south facing structures.

- municipal building standards for new construction, upgrading of existing structures, and the development of new construction designs for critical heat loss zones such as garage doors.
- awareness programs designed for the culture of the audience, in native languages, and featuring a full range of audio-visuals.
- a rebate program, allowing municipalities to utilize moneys saved through conservation for other purposes.

The Department of Information launched an awareness campaign in September 1980, with a view to making Northerners aware of the need to conserve and identifying specific ways to save energy. TV and radio time was used in all six major NWT languages. Printed material was distributed as newspaper inserts and ads, posters, stickers, decals, buttons, school dits and envelop stuffers. As well, considerable "how to" materials from the south were employed.

Implementation of the program involved the regional information officers and the community government liaison officers.

Direct costs for the campaign were \$100,000 in 1980/81, funds provided by Renewable Resources. Additional to this amount, the department is provided the staff for the conceptual development and preparation of the materials.

The Department of Education developed a curriculum unit on energy and energy conservation starting in the 1979/80 school year. This unit uses material developed in Ontario, modified slightly with N.W.T. data facts. Approximately 25% of the schools are using this material now. Contests have been organized between schools to see who can conserve the most.

The Department is proposing an energy conservation rebate program that would refund to schools 25% of the energy savings applicable to teacher/student conservation efforts. Policy content is being discussed with other involved departments.

The Department has invested approximately \$1,000 in materials as well as manpower for program development and delivery.

INVOLVEMENT OF OTHER
GOVERNMENTS/AGENCIES:

PRINCIPAL CONTACT(S):

Department of Local Government
(403) 873-7118
Department of Information
(403) 873-7442
Department of Education
(403) 873-7351