

Rénoclimat Participant's Guide

Effective May 1, 2024



Coordination and drafting

This publication was developed by the Direction générale des programmes en transition climatique et énergétique of the Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs (MELCCFP).

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Table of contents

Table of contents	iii
List of tables	v
List of appendices	vi
Foreword	vii
1.The program at a glance	1
1.1 Participation	2
2.Eligibility	2
2.1 Eligible participants	2
2.2 Eligible homes	3
2.3 Eligible retrofits	4
2.4 Ineligible retrofits	5
3.Procedure	6
3.1 Schedule an appointment for a pre-retrofit energy evaluation	6
3.2 Have a pre-retrofit energy evaluation conducted on your home	6
3.3 Receive a diagnosis and personalized recommendations	7
3.4 Carry out your renovations	7
3.5 Schedule an appointment for your post-retrofit energy evaluation	7
3.6 Have a post-retrofit energy evaluation conducted on your home	8
3.7 Improvement assessment	8
3.8 File analysis	8
3.9 Receive your grant	9
3.10 Participate again through subsequent energy evaluations	9
4.Financial assistance	10
4.1 Insulation improvement	10
4.2 Air sealing	13

4.3 Doors and windows replacement	13
4.4 Installation of mechanical systems	14
4.5 Multi-unit residential buildings (MURBs)	15
5. Do you have any questions?	16

List of tables

TABLE 1: LIST OF ELIGIBLE ENVELOPE RETROFITS _____	4
TABLE 2: LIST OF ELIGIBLE MECHANICAL SYSTEMS _____	4
TABLE 3: FINANCIAL ASSISTANCE FOR ROOF ASSEMBLY INSULATION _____	11
TABLE 4: FINANCIAL ASSISTANCE FOR EXTERIOR WALL INSULATION _____	11
TABLE 5: FINANCIAL ASSISTANCE FOR FOUNDATION INSULATION _____	12
TABLE 6: FINANCIAL ASSISTANCE FOR EXPOSED FLOOR INSULATION _____	12
TABLE 7: FINANCIAL ASSISTANCE FOR AIR SEALING _____	13
TABLE 8: FINANCIAL ASSISTANCE FOR DOORS AND WINDOWS _____	13
TABLE 9: FINANCIAL ASSISTANCE FOR VENTILATION SYSTEMS _____	14
TABLE 10: FINANCIAL ASSISTANCE FOR COLD WATER PREHEATING SYSTEMS _____	14
TABLE 11: MULTIPLIERS APPLICABLE TO MURBS _____	15

List of appendices

APPENDIX I: ENERGUIDE DOCUMENTATION _____	17
APPENDIX III: CRITERIA FOR ELIGIBLE HOMES _____	23

Foreword

Energy-efficient home renovation reduces energy consumption, dependence on energy resources and greenhouse gas emissions, while improving occupant comfort.

The Rénoclimat program has been raising awareness about energy efficiency among residential homeowners and supporting renovation and energy efficiency improvement projects since 2007.

The program is based on improving a home's energy performance by comparing the results of an initial pre-retrofit energy evaluation with those of a second post-retrofit evaluation. Financial assistance for evaluation and support services, as well as for carrying out retrofits, is available based on the energy efficiency improvement achieved.

[The EnerGuide™ Rating System](#) (ERS), developed by Natural Resources Canada (NRCan), is used to rate homes for the Rénoclimat program. Energy evaluations are carried out for the entire home, not for individual dwelling units.

Only energy advisors certified by NRCan and authorized by Rénoclimat can provide energy evaluation services under the Rénoclimat program.

The data collected during the home visit is entered and analyzed by the HOT2000 energy simulation software. The software estimates annual energy consumption and recommends improvements to be made to the home. To enable comparison between homes, standard operating conditions are used, including thermostat temperature, hot water consumption and number of occupants.

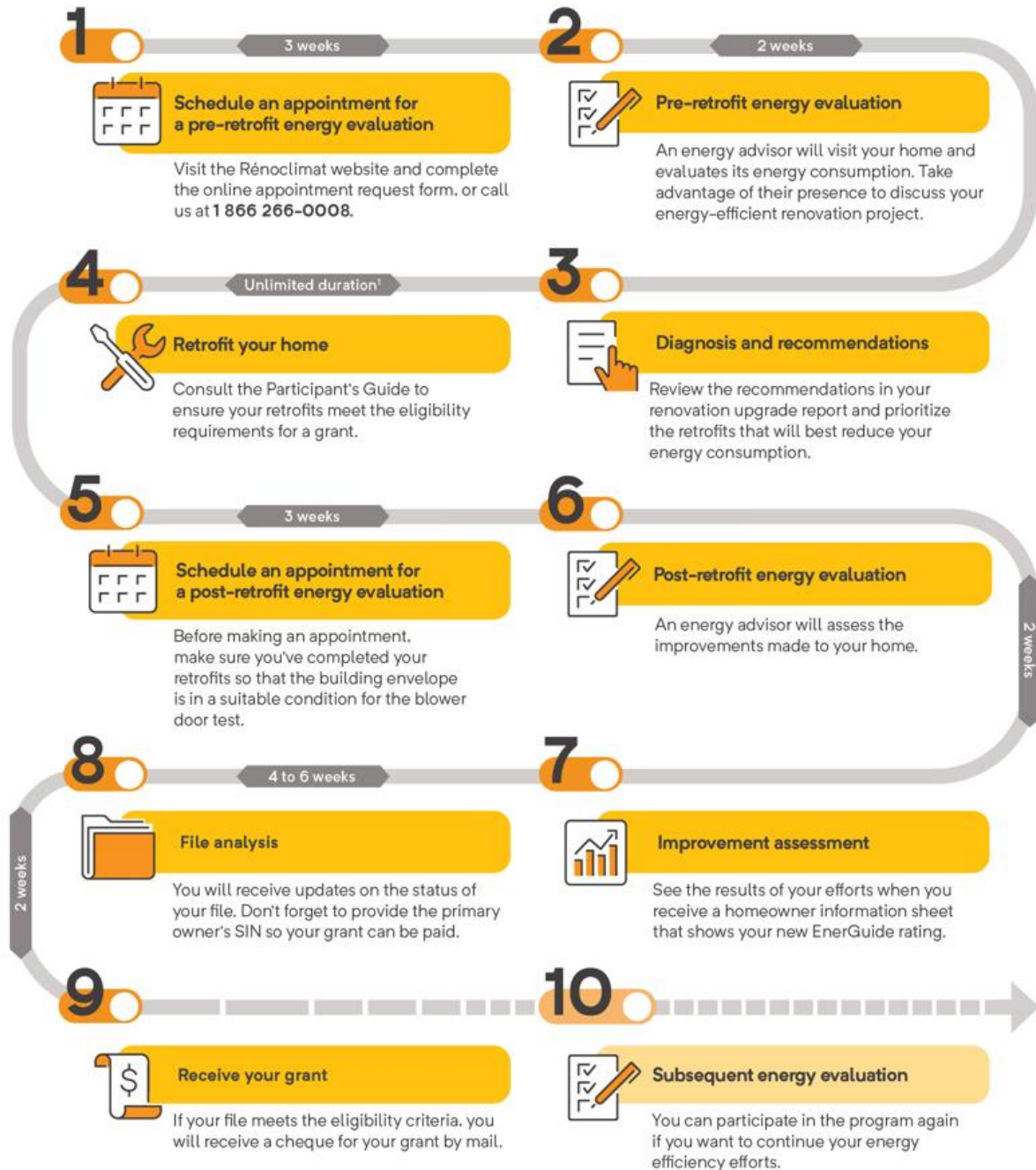
The EnerGuide results given to participants include a complete diagnostic report on their home, an information sheet and an EnerGuide rating label, expressed in gigajoules (GJ) per year. See [Appendix I—EnerGuide documentation](#)—for details of the documents provided.

These diagnosis tools are invaluable in targeting and prioritizing the retrofits required to improve the home's energy efficiency. The program does not require that the retrofits be done by a contractor; if allowed by law, you can renovate your home yourself, at your own pace.

If you do eligible retrofits and the post-retrofit energy evaluation shows an improvement in your energy rating, i.e. a reduction in your home's energy consumption, you will receive the financial assistance to which you are entitled.

All efforts to improve the energy efficiency of Québec homes counts. The Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs thanks you for your interest in energy efficiency.

1. The program at a glance



1.1 Participation

A participation in Rénoclimat is defined as one cycle between two energy evaluations carried out on a home by the same owner.

Initial participation begins with the pre-retrofit energy evaluation and ends with the post-retrofit energy evaluation.

Subsequent participation cycles begin with the post-retrofit evaluation from the previous participation cycle, and end with a new post-retrofit energy evaluation, known as the “subsequent evaluation.”

Evaluations carried out on behalf of one owner cannot be used in the participation cycle of a new owner. For example, a person purchasing a home that had already been enrolled in the program by the previous owner must submit a new, separate application, starting with a new pre-retrofit energy evaluation of the home.

2. Eligibility

The Rénoclimat program targets owners of existing residential dwellings.

2.1 Eligible participants

To participate in the Rénoclimat program, you must be the legal owner of an eligible dwelling or an authorized representative acting on behalf of co-owners.

2.1.1 Participant types

Any individual or legal entity can participate in the Rénoclimat program.

This includes, but is not limited to:

- A private individual;
- A business or a farm;
- A syndicate of co-owners;
- A housing cooperative;
- A non-profit organization;
- A trust;
- A band council (with the necessary adaptations).

2.1.2 Conditions and limits

To be eligible for financial assistance, you must own the home on the date of the first energy evaluation and remain the owner until the time of the last energy evaluation.

The energy evaluation is carried out on the building as a whole; units cannot be evaluated individually. For example, in the case of a multi-unit residential condo building, the authorized representative of the syndicate of co-owners acts on their behalf to participate in the Rénoclimat program. The registration must be made on behalf of the syndicate of co-owners, which will be the beneficiary of the financial assistance.

If a participant passes away during their Rénoclimat journey, the estate can continue the renovations and complete the participation. However, liquidation of the estate or sale of the property before the post-retrofit energy evaluation results in a change of ownership, which leads to the loss of access to financial assistance.

You can participate several times for the same home.

You can participate for each eligible home you own, whether you occupy it or not. A separate application must be submitted for each home. The energy advisor will request proof of ownership valid on the date of the visit, clearly indicating the name of the owner and the address of the property to be evaluated.

In the event of the owner's death, the energy advisor must be shown proof of death and proof of authorization from the deceased's legal representative (executor, administrator, or liquidator) at the time of the visit or must be sent during the analysis of the file.

2.2 Eligible homes

The home must be located in Québec and meet the following criteria:

2.2.1 Property types

The types of eligible properties are:

- Houses;
- Duplexes, triplexes;
- Multi-unit residential buildings.

See [Appendix II](#) for more details on each category and to confirm your home's eligibility.

2.2.2 Conditions and limits

To be eligible, the building must meet the following criteria:

- It has three or fewer storeys above ground;
- It has a maximum ground area (footprint) of 600 m²;
- The building envelope is in a suitable condition for airtightness testing;
- It rests on a permanent foundation;
- It is habitable year-round;
- It has been built and habitable for at least 12 months;
- More than 50% of the total floor area, including the basement, is residential living space.

See [Appendix III](#) for details on each condition and to confirm your home's eligibility.

Please note that some homes that meet all the requirements mentioned above may still not be eligible for the Rénoclimat program (for example, homes that are not airtight enough or too large, buildings with a particular configuration, etc.).

If the blower door test cannot be performed during the energy evaluation, the home will be considered ineligible for the Rénoclimat program. If you have any concerns about your home’s eligibility, discuss them with the energy advisor when you schedule your appointment.

If the blower door test is not recommended, or if it cannot be done because of the presence of materials or interior elements that present health risks for the occupants or the advisor (e.g. vermiculite insulation containing asbestos), the energy advisor will still be able to perform the energy evaluation without an airtightness test. A blower door test waiver form must be signed by the homeowner in such circumstances.

The program’s [Normative Framework](#) (in French only) may mention elements that are not included in this guide. If so, these elements will come into effect at a later date, and their terms and conditions will be added to this guide.

2.3 Eligible retrofits

The retrofits that are eligible under the Rénoclimat program mainly concern the building envelope and certain mechanical systems.

Table 1: List of eligible envelope retrofits

Type of retrofit	
Insulation	Roof assemblies (attic, cathedral ceiling and flat roof)
	Exterior walls
	Foundations (basement, crawl space and basement edge joist)
	Exposed floor
Airtightness	According to the rate of air change per hour measured during the blower door test
Replacement of doors and windows	Door
	Window

Table 2: List of eligible mechanical systems

System type
Heat recovery ventilator or energy recovery ventilator
Drain water heat recovery unit

Eligible renovations must be carried out between two evaluations. They must improve your home’s energy efficiency and meet the program’s conditions.

For projects involving a change in housing type (for example, a house converted into a duplex), financial assistance is calculated based on the housing type defined in the post-retrofit energy evaluation.

Retrofits that have already benefited from financial assistance during the program period cannot be eligible again if they do not result in additional improvements to the building's efficiency. A participant may not receive financial assistance from another MELCCFP program for the same retrofit.

2.4 Ineligible retrofits

Retrofits that started before the pre-retrofit energy evaluation are not eligible for financial assistance.

If the renovations you are considering are part of the following list of examples, you will not receive financial assistance from the Rénoclimat program for them:

- Installation of electronic thermostats;
- Installation or repair of an air-conditioning unit, air-source heat pump or geothermal system;
- Building additions;
- Renovation or insulation of an adjoining space not included in the heated volume (garage, veranda, cold room, porch);
- Replacement of an electrical panel;
- Replacement of garage doors or windows, whether the garage is heated or not;
- Replacement of roof or exterior wall cladding;
- Any other measure that does not improve a home's energy efficiency.

Considering an addition?

If you're planning to improve your home's efficiency and also take the opportunity to add a room or storey, or to build a new foundation, please note that the portion related to the expansion of the home will be deducted from the calculation of financial assistance. The Rénoclimat program compares the home before and after the retrofit; any renovation done between the two visits that modifies the conditions of the home's original envelope is excluded from financial assistance.

Although the above retrofits are not eligible, some municipalities or energy distributors have energy efficiency programs that may cover some of them.

3. Procedure

3.1 Schedule an appointment for a pre-retrofit energy evaluation

By filling out [the online form \(in French\)](#), or by calling our [customer service](#) to schedule an appointment, you are requesting that a Rénoclimat advisor contact you to schedule your first appointment. The government has mandated organizations in each region of Québec to provide information on the program and energy evaluation services. A representative will contact you within a week of your request to schedule your appointment. Allow three weeks to obtain an appointment.

Consult the [list of authorized organizations](#) on our website, which are the only ones authorized to provide energy evaluation services under the Rénoclimat program.

Service organizations also provide customer service for:

- Any question related to the Rénoclimat program, such as services offered, eligibility requirements, registration procedures, energy evaluations, etc.;
- Scheduling an energy evaluation appointment for your home (you can also register online);
- Monitoring appointment requests and participation files.



Be vigilant!

Rénoclimat will not solicit you by telephone, email or door-to-door to offer a home inspection or sell home renovation services. If a person or company offers you this service without your having requested it, it could be a scam. See the [Frequently asked questions](#) for advice.

3.2 Have a pre-retrofit energy evaluation conducted on your home

During their visit, the energy advisor will validate your home's eligibility and confirm your enrolment in the program. They will then conduct a comprehensive visual analysis of your home. They will take specific measurements of the home's interior structure and check the existing insulation, as well as the heating, ventilation and air-conditioning systems. They will perform a blower door test to detect air leaks and establish your home's EnerGuide rating.

Allow about two hours for the complete evaluation of your home.

Blower door test

The blower door test is a performance test carried out using a device to verify the airtightness of your home, that is, to measure the amount of outside air entering your home.

During this test, the advisor tours your home to detect any air leaks. Feel free to follow along and take notes. This will allow you to find out how to increase your comfort and reduce your energy consumption by easily sealing many unwanted air leaks, at a low cost.

For more details on how the blower door test works, visit [our website](#).

3.3 Receive a diagnosis and personalized recommendations

Within two weeks of their first visit, the energy efficiency advisor will send you an energy diagnosis of your home, along with personalized recommendations for improving its performance. The documents provided include the:

- Renovation upgrade report;
- EnerGuide label;
- Homeowner information sheet.

These documents are essential for understanding your home's energy consumption and will be invaluable for guiding your renovation project.

Helpful advice

Helpful tips to help reduce your energy bill, intended for both tenants and homeowners, are available at quebec.ca/energytransition.

3.4 Carry out your renovations

Follow the recommendations included in the renovation upgrade report to guide you in carrying out your renovations. Québec laws and construction codes require that some renovations be done by certified contractors. If the renovations you are planning are not covered by this obligation, you can do them yourself.

Energy-efficient renovations usually improve the EnerGuide rating, which means:

- Savings on your energy bills;
- Improving your home's comfort;
- A reduced environmental impact;
- Access to financial assistance under the Rénoclimat program.

Verify the eligibility of your renovations and the associated grant amount when planning your renovations.

Time frame for completing your renovations

Other than the program end date specified in the [Normative Framework](#), there is no deadline to complete your renovations.

3.5 Schedule an appointment for your post-retrofit energy evaluation

Make sure that all your retrofits are completed, and that the building envelope is airtight so that the energy advisor can come back to perform a new blower door test. You can contact the program's [customer service](#) or fill out [the form](#) (in French) available on the Rénoclimat website to request your post-retrofit energy evaluation. A representative will contact you within a week of your request to schedule an appointment.

3.6 Have a post-retrofit energy evaluation conducted on your home

Once we have received your request, we will contact you to schedule a post-retrofit energy evaluation of your home. Please allow three weeks for your appointment to be scheduled.

The post-retrofit evaluation of your home will take between 45 and 90 minutes.

During their visit, the energy advisor will tour your home to observe and note all retrofits eligible for the Rénoclimat program that you have completed since their previous visit.

For insulation retrofits, the energy advisor will note the nature of the work, the areas covered, and the level of insulation achieved. They will ask you for the invoices of the retrofits.

For mechanical systems, the energy advisor will verify the presence of newly installed units, their characteristics and level of efficiency. You will be asked to provide detailed invoices to verify your eligibility for financial assistance.

For doors and windows, the energy advisor will verify the presence of the manufacturer's label certifying the energy efficiency of the installed products.

For air-sealing, the energy advisor will perform a blower door test to verify if the retrofits have been carried out according to the recommendations in the renovation upgrade report.

The energy advisor will then determine your home's new EnerGuide rating and determine how much its energy efficiency has improved.



Keep your invoices

Keep all proof of your retrofits (invoices, photos, manufacturer's labels, etc.), as you will need to give them to the energy advisor during their visit. Keep them in a safe place until you receive your financial assistance; Rénoclimat program officials may request them during the review of your file.

3.7 Improvement assessment

Within two weeks of your post-retrofit evaluation, you will receive your updated homeowner information sheet and your new EnerGuide label. These documents show you the results of your energy-efficient renovation efforts. The variation in your rating between the first and second energy evaluation shows you your home's new level of annual energy savings. Payment of financial assistance is conditional on the improvement of your home's EnerGuide rating.

3.8 File analysis

Your file will be analyzed to determine your eligibility for financial assistance under the Rénoclimat program. You will receive confirmation emails so that you can follow the progress of your file.

If your retrofit has not improved your EnerGuide rating or does not qualify for financial assistance, you will receive a letter of explanation within six to eight weeks.

If your file meets the eligibility requirements and your home's EnerGuide rating has improved, you will receive financial assistance for your eligible retrofits.

For information on the processing of your request, please [email us](#). If possible, include your Rénoclimat file number in your message, which can be found at the top of your renovation upgrade report.

If you are eligible for financial assistance under the Rénoclimat program, the primary owner on file must call the Québec government's climate and energy transition programs [customer service](#) to provide us with their social insurance number (SIN) or Québec business number (NEQ).

The analysis of your file should take six to eight weeks. In some situations, it may take longer, such as the following:

- Incomplete file;
- Additional analysis required;
- Quality control;
- Incorrect, missing or non-existent social insurance number (SIN);
- High volume of program applications.

Why do I need to provide my SIN?

The SIN is required to receive your financial assistance. The Québec government is required to produce a Relevé 27 (RL-27) "Government payments" slip for recipients of financial assistance granted under its programs. The SIN is an essential piece of information for issuing the RL-27 slip.

If you are an individual, you generally don't have to include this amount or attach this slip to your tax return. Check with Revenu Québec for details.

For security reasons, it is up to the participant to call the Québec government's climate and energy transition programs' customer service, so that a government-mandated employee can enter the information in the participant's file.



For security reasons, never send your SIN by email.

3.9 Receive your grant

Your Rénoclimat grant cheque will be mailed to you within eight to ten weeks of your home's post-retrofit energy evaluation.

Despite an unusual delay in the processing of your file, rest assured that you will receive the financial assistance you are entitled to.

3.10 Participate again through subsequent energy evaluations

If you participate in Rénoclimat more than once, subsequent energy evaluations will be carried out in the same way as post-retrofit energy evaluations. Each new evaluation will take from 45 to 90 minutes. Note that there is no need for a new pre-retrofit energy evaluation. Instead, the Rénoclimat energy advisor will base their evaluation on your home's most recent energy evaluation.

The energy advisor will verify any new renovations done since your home's last energy evaluation. During each visit, they will perform a blower door test to establish your home's new EnerGuide rating, take photos and collect invoices for the work done. Rénoclimat program officials will then analyze the information gathered and determine whether you are eligible for financial assistance for your latest retrofits.

4. Financial assistance

To be eligible for financial assistance, the retrofit must improve your home's energy efficiency and meet the program's conditions. Eligible building envelope improvements include improved insulation, airtightness, and replacement of doors and windows. Financial assistance is also available for the installation or replacement of mechanical systems (heat recovery ventilators, energy recovery ventilators and drain water heat recovery units).

The maximum grant amount under the Rénoclimat program, per dwelling, is:

- \$20,000 for a homeowner;
- \$40,000 for the owner of a duplex, triplex or multi-unit residential building.

You can accumulate the maximum grant amount for the applicable measures for the entire duration of the program.

4.1 Insulation improvement

Grant amount is calculated according to the increase in insulation level, starting from the insulation level measured during the pre-retrofit energy evaluation. The greater the improvement in insulation level, the more grant you will receive.

The post-retrofit insulation value must reach the target specified for the section of the home being insulated (roof assemblies, exterior walls, foundation or exposed floor). A minimum area must be insulated for the retrofit to be eligible for a grant.

How is the insulation improvement calculated?

The insulating value of the added materials is used to calculate the insulation improvement. The unit of measurement used is the R value (imperial) or the RSI value (metric).

The insulation values recognized by the program are those indicated in the current *Building Code* or in the Canadian Construction Materials Centre (CCMC) *Registry of Product Assessments*. The values published by manufacturers for their products sometimes differ. These may be used provided they have been obtained in accordance with test methods recognized by the program.

The pre-retrofit values recorded and those recommended by the energy advisor are indicated in the **homeowner information sheet** and **renovation upgrade report** that you receive after the energy evaluation.

Table 3: Financial assistance for roof assembly insulation

Roof assembly	Insulating value		Based on area insulated	
	Pre-retrofit	Post-retrofit	100%	20%
Attic	R-12 or less (RSI 2.11)	R-50 or higher (RSI 8.81)	\$1,500	\$300
	More than R-12 up to R-25 (RSI 4.40)		\$750	\$150
	More than R-25 up to R-35 (RSI 6.16)		\$250	\$50
Cathedral or flat	R-12 or less	R-28 (RSI 4.93)	\$1,500	\$300
	More than R-12 up to R-25		\$500	\$100

If there is more than one type of roof assembly (e.g. attic, cathedral ceiling, flat roof), the grant amount will be pro-rated based on the different types and their respective surface areas.

Table 4: Financial assistance for exterior wall insulation

Exterior walls	Insulating value		Based on area insulated	
	Pre-retrofit	Post-retrofit	100%	20%
	Value noted by the energy advisor during the assessment	Increase of more than R-9 (RSI 1.58)	\$3,750	\$750
		Increase between R-3.8 (RSI 0.67) and R-9	\$2,250	\$450

In the case of a semi-detached house or townhouse forming a corner unit, the grant amount for insulating exterior walls, basement walls or crawl space walls is 75% of the amount indicated above.

In the case of a townhouse other than a corner unit, the grant amount is 50% of the amount indicated above.

Table 5: Financial assistance for foundation insulation

Foundations	Insulating value		Based on area insulated	
	Pre-retrofit	Post-retrofit	100%	20%
Crawl space (exterior wall insulation, including rim joists)	Value noted by the energy advisor during the assessment	Increase of more than R-23 (RSI 4.05)	\$2,000	\$400
		Increase between R-10 (RSI 1.76) and R-23	\$1,000	\$200
Crawl space (insulation of floor area above)	Value noted by the energy advisor during the assessment	Increase of more than R-23	\$500	N/A
Basement (exterior wall insulation)	Value noted by the energy advisor during the assessment	Increase of more than R-23	\$2,500	\$500
		Increase between R-10 and R-23	\$1,250	\$250
Basement rim joists	Value noted by the energy advisor during the assessment	Increase of at least R-20 (RSI 3.52)	100%	80%
			\$250	\$200

When both a basement and crawl space are present, all applicable grants are pro-rated based on their respective surface areas.

Table 6: Financial assistance for exposed floor insulation

Exposed floor	Insulating value		Based on area insulated
	Pre-retrofit	Post-retrofit	100%
	Value noted by the energy advisor during the assessment	Increase of at least R-20 (RSI 3.52)	\$370

Exposed floors include any floor that extends over an unheated space (for example, an unheated garage) or is exposed to the elements. Floors situated above a crawl space are not included in exposed floors; they are addressed in the “Foundations” section.

At least 14 square metres (150 square feet) of exposed floor space must be insulated to qualify for financial assistance.

4.2 Air sealing

Air sealing consists of caulking areas prone to air leakage to prevent both air ingress (cold air infiltration) and heat loss (warm air exfiltration).

The level of airtightness is measured during a blower door test. It is expressed in rate of air change per hour (ACH). This rate is indicated in your renovation upgrade report, which also indicates the rate you could achieve by performing air sealing.

Financial assistance is granted according to the level of achievement or exceedance of the air leak reduction target indicated in your renovation upgrade report.

Table 7: Financial assistance for air sealing

Based on airtightness level reached	Financial assistance
Recommended ACH target reached	\$400
Exceeding recommended target by 10%	\$600
Exceeding recommended target by 20%	\$800

4.3 Doors and windows replacement

Doors and windows must be ENERGY STAR® certified and installed in an existing rough opening in a wall.

Keep your ENERGY STAR® stickers and all your invoices; you will need to show them to your energy advisor when they visit to confirm the eligibility of your doors and windows.

What is a “rough opening”?

A rough opening is an opening created in the wall or roof structure to install the fenestration product. For example, a bay window with a group of three windows installed in a rough opening is eligible for only one grant, as is a patio door.

The replacement of the glass, sash or door without their frame is not eligible for financial assistance.

Table 8: Financial assistance for doors and windows

Replacement of	Financial assistance
Door	\$150 per rough opening in the wall or roof
Window	

4.4 Installation of mechanical systems

The mechanical system installed must comply with the following conditions.

Table 9: Financial assistance for ventilation systems

Ventilation system	Financial assistance
Installation or replacement Heat recovery ventilator (HRV) or Energy recovery ventilator (ERV)	\$500

The units must be of the heat recovery type and listed in section 3 of the [Home Ventilating Institute's](#) directory of certified products.

Air distribution networks for indoor units must be installed primarily within the insulation plan. It is not recommended to install these networks in an attic. However, when it is impossible to do otherwise, you must validate your installation with your energy advisor.

A ventilation system removes excess humidity and pollutants from the home and introduces clean air to replace stale air. A heat recovery ventilator helps maintaining high air quality without increasing energy bills too much.



An HRV must always accompany other retrofits

Installing only a heat recovery ventilator without doing other energy-efficiency retrofits could actually increase your home's energy consumption and therefore, making you ineligible for financial assistance under the Rénoclimat program. Consider installing an HRV as part of overall energy renovation project. Discuss it with your Rénoclimat energy advisor.

Table 10: Financial assistance for cold water preheating systems

Drain water heat recovery unit	Financial assistance
Installation with an efficiency percentage of 42% or more	\$180
Installation with an efficiency percentage of 30% to less than 42%	\$120

A drain water heat recovery system offers a simple, maintenance-free way of recovering some of the heat from the water that flows down the drain, mainly from the shower.

We recommend selecting units that comply with Canadian Standards Association (CSA) standards B55.1 and B55.2.

Heat pumps

As of May 1, 2024, financial assistance for geothermal heating systems or air-source heat pumps is no longer available under the Rénoclimat program. However, a transitional phase is in place for participants who joined the program before May 1, 2024. These participants have until September 30, 2024, to have a post-retrofit evaluation visit performed if they wish to benefit from financial assistance for this retrofit.

Some energy distributors offer financial assistance for heating system upgrades; consult your energy distributor for program details.

Chauffez vert program

To replace an oil or propane heating system with an electric system or another renewable energy source, check out the [Chauffez vert program](#). The application for financial assistance from Chauffez vert must be submitted separately from the Rénoclimat post-retrofit energy evaluation.

4.5 Multi-unit residential buildings (MURBs)

Financial assistance for windows and doors replacement is calculated according to the number of rough openings replaced.

Financial assistance for the installation of mechanical systems in a multi-unit residential building is calculated according to the number of units installed. The maximum number of units installed is one per dwelling unit.

The grant amount for insulation retrofits is increased by the multiplier corresponding to the number of housing units in the dwelling.

Table 11: Multipliers applicable to MURBs

Number of housing units	Rénoclimat multiplier
2 to 3 units (duplexes and triplexes)	1.8
4 to 6 units	3.0
7 to 9 units	5.0
10 to 12 units	6.0
13 to 16 units	7.0
17 units and more	8.0

5. Do you have any questions?

Call us at

1 866 266-0008
Monday to Friday, 8 a.m. to 8 p.m.

Email us

Renseignements.te@mern.gouv.qc.ca

Visit our website

Québec.ca/rénoclimat

Contact your energy advisor

Have you received an energy evaluation? You can contact your energy advisor directly with any questions you may have about your project.


Consult the [list of organizations authorized](#) by the Rénoclimat program on our website for the telephone number to reach an energy advisor.

Appendix I: EnerGuide documentation

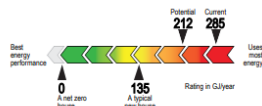
File Number: 1234D67890 NRCan.gc.ca/myenerguide

RENOVATION UPGRADE REPORT ENERGUIDE

18 Neptune Avenue
Truro, NS K0K 0K0



Year built: 1974



Potential **212** Current **285**
Rating in GJ/year

0 A net zero house 135 A typical new house


Assessment date: July 17, 2019 **Evaluated by:** Skylar Ocean xxx-123-4567 adsf **Quality assured by:** MGB Energy Solutions xxx-345-6789 456+d

This report identifies your home's energy savings opportunities by providing you with recommended renovation upgrades. It complements your EnerGuide label and your Homeowner Information Sheet and includes:


- 📌 Your customized action plan to improve the energy efficiency of your home;
- 📌 Information on your rating and potential contribution to greenhouse gas (GHG) emission reductions;
- 📌 Before and after heat loss and energy use estimates;
- 📌 Important health and safety information; and
- 📌 Additional energy savings tips.

YOUR ENERGY EFFICIENCY ROADMAP


Your energy advisor has prioritized your recommended upgrades based on the potential energy savings, the life expectancy of your home components, the interactions between systems, your potential renovation plans and the costs to perform the upgrades.




1. Perform air sealing
(Save 1 GJ/year)




2. Insulate attic
(Save 36 GJ/year)




3. Upgrade heating system
(Save 49 GJ/year)



4. Upgrade cooling system
(Save 9 GJ/year)



Additional recommendations on next pages




By implementing all upgrades, you are helping to fight climate change and could **reduce GHG emissions by up to 3.8 tonnes per year.**

Renovation Upgrade Report Page 1 of 9 Report date: July 11, 2019

Address: 18 Neptune Avenue, Truro, NOVA SCOTIA, K0K 0K0

HOMEOWNER INFORMATION SHEET ENERGUIDE

Your EnerGuide® rating and this report are based on data collected and, where necessary, presented from your evaluation. Rating calculations are made using standard operating conditions.



Rating: 285 (gigajoules per year GJ/year)

Heated floor area: 232.1 m² (2498.3 ft²)
Rated energy intensity: 1.27 GJ/m²/year
Evaluated by: Skylar Ocean
Quality assured by: MGB Energy Solutions
File number: 1234D67890
Data collected: July 17, 2019
Year built: 1974

NRCan.gc.ca/myenerguide

HOW YOUR RATING IS CALCULATED:

I. Rated annual energy consumption 296 GJ/year
 II. Minus renewable energy contribution -11 GJ/year
Equals your EnerGuide rating = 285 GJ/year

I. Your rated annual energy consumption is the total amount of energy your house would use in a year based on the EnerGuide Rating System standard operating conditions. For your house, this includes 31.37 GJ of passive solar gain.

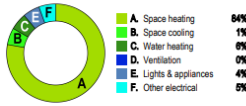
Energy Sources	Rated Consumption (GJ/year)	Equivalent Units (per year)	Greenhouse Gas Emissions (tonnes/year)
Natural gas	243	6534 m ³	12.5
Electricity	52	14512 kWh	10.7
Total	296		23.2

II. On-site renewable power generation systems can offset some or even all of your home's energy consumption. Renewable energy contributions are factored differently for your rating and your greenhouse gas emissions calculations.

On-Site Renewable Energy	Estimated Contribution (GJ/year)	Equivalent Units (per year)	Offset Greenhouse Gas Emissions (tonnes/year)
Electricity	11	3000 kWh	2.2
Solar water heating	0	0	0.0
Total	11		2.2

HOW YOUR RATED ENERGY IS USED:

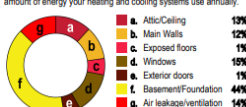
The chart below represents the breakdown of rated annual energy consumption in your home under standard operating conditions. You can use these figures as a guide to help identify where you can lower home energy costs through proper home maintenance, efficient home operation, energy efficiency renovations or equipment replacement.



A Space heating	64%
B Space cooling	1%
C Water heating	0%
D Ventilation	0%
E Lights & appliances	4%
F Other electrical	5%

WHERE YOUR HOME LOSES HEAT:

Houses lose heat through their exterior shell, or building envelope. The chart below shows where and how your home loses heat. The quality and upkeep of your home can have a major impact on the amount of energy your heating and cooling systems use annually.



a Attic/Ceiling	13%
b Main Walls	12%
c Exposed floors	1%
d Windows	9%
e Exterior doors	1%
f Basement/Foundation	4%
g Air leakage/Ventilation	14%

*EnerGuide is an official mark of Natural Resources Canada. Refer to the glossary section for an explanation of relevant terms.

YOUR RATED GREENHOUSE GAS EMISSIONS CALCULATION:

Total greenhouse gas emissions 23.2 tonnes/year
 Minus emissions offset by on-site renewables -2.2 tonnes/year
Equals your rated greenhouse gas emissions = 21.0 tonnes/year

Figures may not add up due to rounding. Page 1 of 5 Report date: July 11, 2019

The **renovation upgrade report** covers all aspects of a home's energy efficiency: insulation, airtightness, the performance of heating, ventilation and air-conditioning systems, as well as the energy consumption habits of the occupants. It indicates areas for improvements and opportunities for energy savings in your home.

The **homeowner information sheet** presents all the details about your home. It will provide forecasts for calculating your EnerGuide rating, greenhouse gas emissions, energy distribution and where heat losses occur in your home. You will also find details on the insulating value of various components of your home's envelope, air change rate per hour, and several other relevant pieces of information to better understand your home.

LEARN ABOUT YOUR HOME'S ENERGY rating

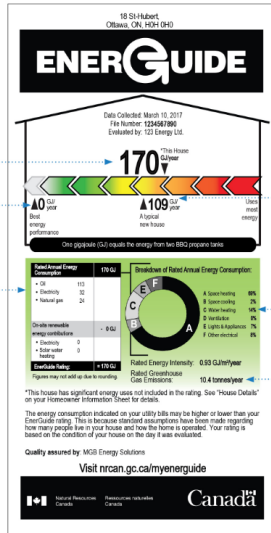
You will receive a rating of the home's energy consumption in gigajoules

AIM TOWARDS zero

The lower the number on the new **EnerGuide** scale, the better the energy performance of your home

UNDERSTAND HOW YOU USE energy

The label breaks down energy consumed by source



COMPARE YOUR HOME'S performance

The label shows how your home's performance compares to a benchmark home

FIND OUT WHERE MOST ENERGY IS consumed

The label shows proportion of energy consumed by heating, cooling, ventilation, etc.

SEE YOUR IMPACT ON THE environment

The label shows your home's Greenhouse Gas Emissions

The EnerGuide label will provide you with your home's energy rating, based on your energy consumption in gigajoules. Among other things, it will help you better understand your energy consumption, compare your home's energy efficiency with that of a similar new home, see how your energy consumption is distributed, and even examine your impact on the environment with the amount of greenhouse gas emissions produced by your home.

Appendix II: Housing types

House

This category of housing comprises a single living space used by one or more persons in the same household, such as a unit, a residence or a place to sleep.

The space must have at least one kitchen with sink and a functional oven, a bathroom, at least one bedroom, an entrance, etc. The house space is delimited by the envelope separating the indoor environment from the outdoor environment, or by a common firewall.

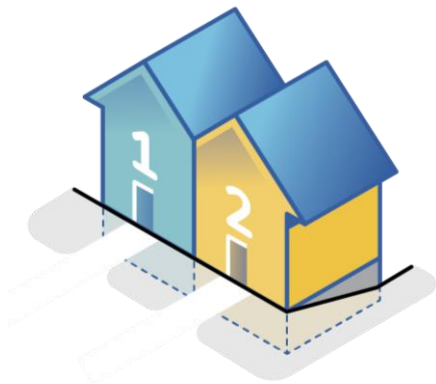
This category includes, but is not limited to:

Single-family detached houses



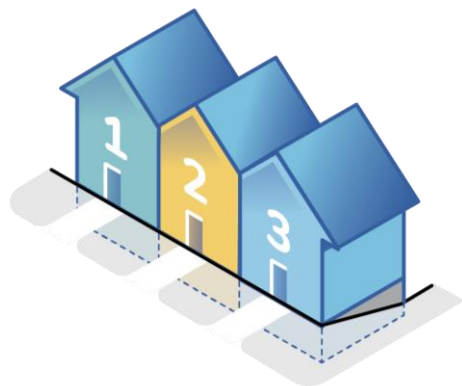
This category includes rooming houses with shared kitchen and bathroom facilities.

Semi-detached houses



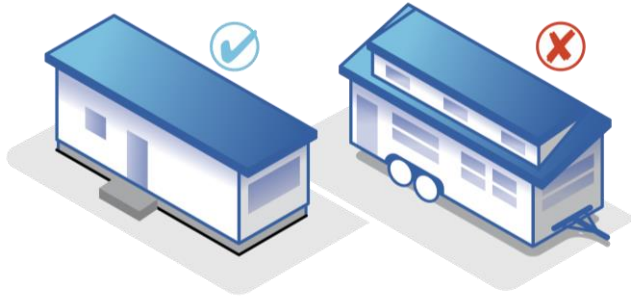
Semi-detached houses are considered single-family homes unless they are connected by a common space, whether in the roof, foundation or living area. In this case, they must be evaluated as a multi-unit residential building.

Townhouses



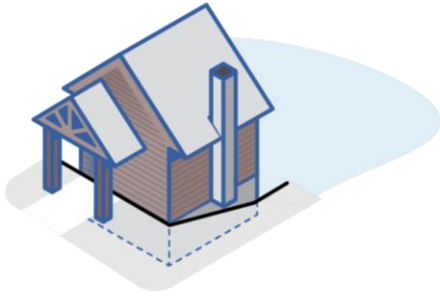
Townhouses are considered single-family homes unless they are connected by a common space, whether in the roof, foundation or living area. In this case, they must be evaluated as a multi-unit residential building.

Mobile homes on a permanent foundation



Mobile homes that rest on blocks, pilings, piles or a foundation are eligible. Mini-homes built on trailers are not eligible for the program.

Four-season cottages



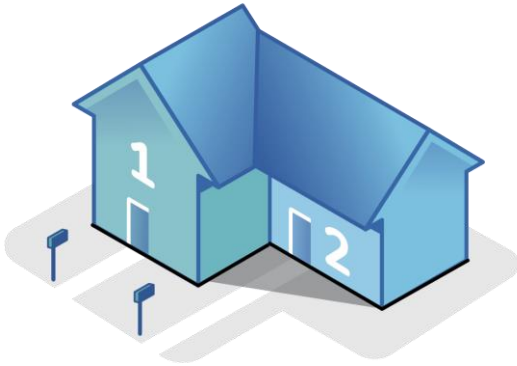
To be eligible, cottages must have all the systems required for [year-round occupancy](#) prior to enrolment in the program.

Duplex

This category of housing comprises two fully or partially superimposed units, side by side or connected by a common space if they are not superimposed, with each unit having its own independent entrance.

It includes, but is not limited to:

Bi-generation homes



Bi-generation homes feature two private entrances from the outside. The two dwelling units are connected from the inside of the building.

Two-unit buildings



Two-unit buildings comprise two independent dwelling units, each with its own private entrance. Access can be from the inside or the outside of the building.

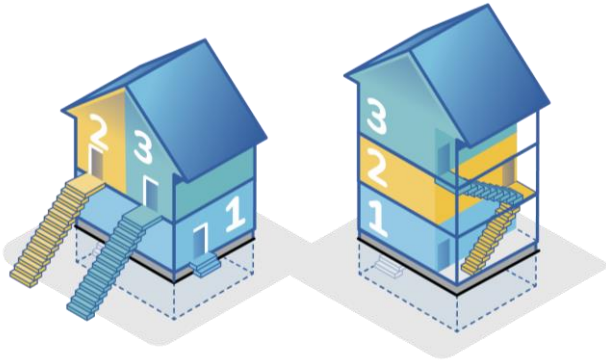
Houses with integrated units



Houses with integrated units feature two self-contained dwelling units inside the house. The two housing units may have independent entrances but are connected from the inside of the building.

Triplex

This category of housing comprises three fully or partially superimposed units, side by side or connected by a common space if they are not superimposed, with each unit having its own independent entrance.



Each unit has a private entrance from outside the building or from an interior common area.

Multi-unit residential buildings

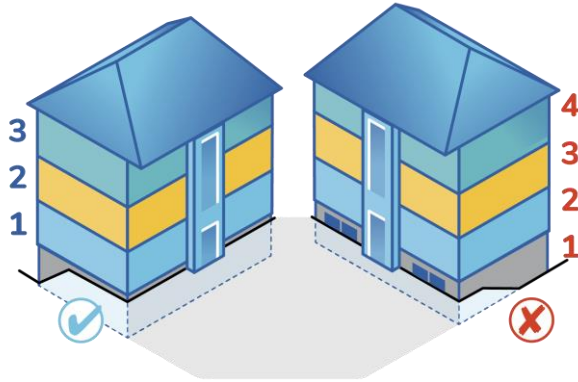
This category of housing includes at least four dwelling units up to a maximum of 100 units. This type of housing includes apartment buildings and condominiums.



Each unit has a private entrance either from outside the building or from a common area (corridor, hall, vestibule or interior staircase) that can be used without having to pass through another dwelling unit.

Appendix III: Criteria for eligible homes

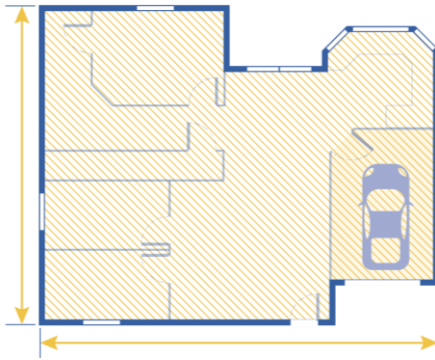
Have no more than three storeys above the ground



The number of storeys is calculated from the first floor above average ground level. The basement is therefore excluded.

If the slope of the terrain is such that more than 50% of the basement is above ground level, then the basement is considered the first above-ground floor.

Have a maximum floor area of 600 m²



The floor area is defined as the largest horizontal surface of the building above ground level. This dimension is calculated between the outside surfaces of the exterior walls or from the outside surface of the exterior walls to the axis of the firewalls.

Have a suitable envelope for airtightness testing

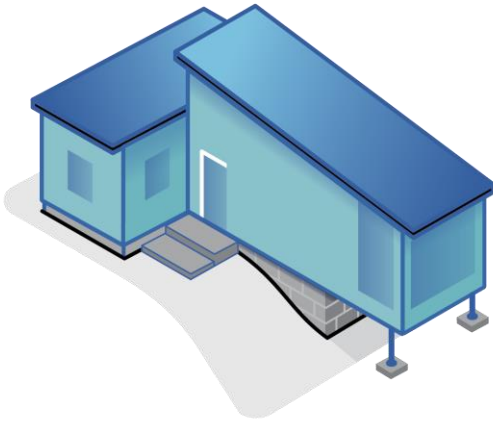


The doors, windows and envelope air-barrier materials must be in place at the time of the energy evaluation.

Non-intact or unfinished exterior cladding can be tolerated if the validity of the airtightness test is not compromised.

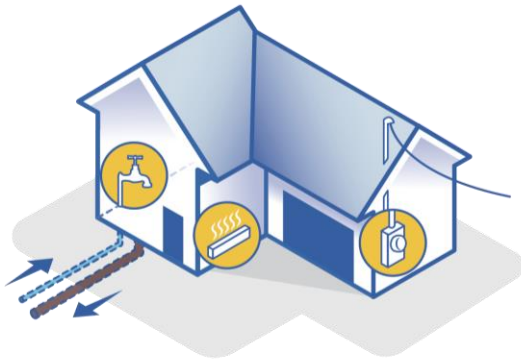
Interior foundation finishes are not mandatory for the airtightness test. Any ongoing renovation may only affect interior partitions.

Rest on permanent foundations



Foundations are made up of construction elements permanently fixing the home to the ground (cast-in-place concrete foundation, concrete blocks, screw piles, etc.). A building above a parking garage is eligible.

Be suitable for year-round occupancy



A home is considered habitable year-round when it has:

- A functional heating system to maintain the home's interior temperature at 21°C;
- Electrical service distributed throughout the home;
- A drinking water supply provided by the municipality or a private source;
- A sewer outlet connected to the municipal sewer system, a private septic tank or a sewage tank.

Have at least 50% of its total floor area (including the basement) used for residential purposes

+ 50% residential



Residential spaces must occupy the major part of the dwelling. The commercial portion of the dwelling must be intended for use that does not require specialized equipment.

By way of example, the following uses are accepted:

- Law firm, insurance broker, accountant's office, etc.;
- Speech therapy, massage therapy, psychology clinics, etc.;
- Barber shops, alterations shops, clothing stores, etc.;
- Daycare centre, senior drop-in centre, etc.;
- Classroom, dance studio, music class, etc.;
- Jewellery store, antique shop, art gallery, etc.

+ 50% residential

- Restaurants
- Fish shops
- Butcher shops
- Grocery stores
- Hardware stores
- Carpentry or woodworking workshops
- Medical or pharmaceutical laboratories for humans or animals
- Machine shops, welding shops, automobile repair shops
- Dry cleaners
- Etc.

The image shows a house with a blue roof and white walls, with a cutaway view. A red box on the right contains a list of ineligible uses, marked with a red 'X' icon. The text '+ 50% residential' is written in white on a teal background.

Uses that require the installation of specialized equipment are not eligible for the program, even if the commercial portion represents less than 50% of the building's surface area.

The energy advisor first examines the nature of the use and then, validates eligibility with the owner.

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Lutte contre
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