

1. Details

The heating system must comply with the provisions outlined in the dual-energy rate section in the *Electricity Rates*, in particular the following provision: "The capacity of the dual-energy system in fuel mode must be sufficient to heat the premises in question. The energy sources of the dual-energy system must not be used simultaneously."

2. Control equipment

The control equipment must meet the following conditions:

Connection:	<ul style="list-style-type: none"> According to the Control Equipment Connection Diagram presented below.
Indicator light:	<ul style="list-style-type: none"> Optional installation for residential customers – Supplied free of charge by Hydro-Québec and installed at the customer's expense, if applicable. Installation is not necessary for business customers.
Dual-energy controller:	<ul style="list-style-type: none"> Supplied and installed by Hydro-Québec. Supplies the indicator light with voltage of 12 V or 24 V, alternating current, depending on the model. Single-pole double-throw contact (NO/NC; 30 V; 0.5 A).
Cables:	<ul style="list-style-type: none"> Supplied and installed by the contractor at the customer's expense. Five- or six-conductor (AWG 22) cable between the transition terminal block and the meter. Polyethylene insulation (cables and conductors). Operating voltage of 12 V or 24 V, alternating current. Protected against ultraviolet radiation, for outdoor use.
Transition terminal block:	<ul style="list-style-type: none"> Supplied and installed by the contractor at the customer's expense. Minimum insulation voltage: 300 V. Minimum current: 25 A at 30°C.
Indoor meter:	<ul style="list-style-type: none"> Hydro-Québec sensor installed outdoors in a box usually affixed to the service mast. Location of box determined during a meeting between the contractor and Hydro-Québec. Maximum distance of 30 m between the controller and the outdoor sensor. Contractor must drill a hole at least 11 mm (7/16 in.) in diameter through the wall(s) in order to run a cable between the controller and the sensor box. Three-conductor (AWG 20) cable supplied and installed by the contractor at the customer's expense. Polyethylene insulation (cables and conductors), protected against ultraviolet radiation, for outdoor use.
Remote metering:	<ul style="list-style-type: none"> Permitted maximum distance of 300 m. Cable gauge and type determined by distance and type of installation (outdoor or underground). Possibility of using a remote communication device between the controller and the automatic switching device (carrier or RF device, etc.), to be approved by Hydro-Québec prior to installation. Device supplied and installed by the contractor at the customer's expense.

3. Meter location and clearance

The existing meter socket must allow for the safe installation and connection of the controller.

The following minimum clearances must be respected:

In front of the socket: 1 m	To the left and right of the meter: ... 100 mm
Above the meter: ≤200-A installation: 100 mm	
400-A installation: 150 mm	Below the meter: 150 mm

Some exceptions may apply, in particular for metering centres.

Important

If the electrical installation is not in compliance with the version of Standard E.21-10 in effect at the time of the initial connection or does not meet the minimum clearances specified above, the customer is not eligible for the dual-energy rate unless the necessary modifications are undertaken at the customer's expense.

For dual-energy installations, 320-A single-phase meter sockets and polyphase meter sockets are not authorized (see Table 11 in Standard E.21-10).

In the event that the specifications outlined in this document cannot be respected, the contractor must contact Hydro-Québec before work begins.

CONTROL EQUIPMENT CONNECTION DIAGRAM

