

Residential dual-energy installations

INSTALLATION SPECIFICATIONS FOR CONTRACTORS

1. Special Requirement

The dual-energy system must comply with the provisions of the section on Rate DT in the *Distributor's Rates and Conditions of Application*.

Important

"The capacity of the dual-energy system, in fuel mode as well as in electrical mode, must be sufficient to heat the premises in question. The energy sources for heating must not be used simultaneously."

2. Control Equipment

- Connection:
 - According to the *Control Equipment Connection Diagram*
- Indicator lamp:
 - Supplied at no charge by Hydro-Québec and installed at customer expense
- Cables:
 - Supplied and installed by contractor at customer expense
 - CSA Approved
 - Six-conductor (AWG 22) cables (between terminal block and meter)
 - Polyethylene insulation (cables and conductors)
 - Operating voltage of 12 or 24 V, alternating current
 - Protected against ultraviolet radiation, for outdoor use
- Terminal blocks:
 - Supplied and installed by contractor at customer expense
 - CSA Approved
 - Minimum insulation voltage: 300 V
 - Minimum current: 25 A at 30 °C
- Indoor meter:
 - Hydro-Québec sensor installed outdoors in a box usually affixed to the service mast
 - Contractor must drill a hole at least 7/16" in diameter through the wall near the service mast in order to run a cable between the sensor box and the controller
 - Cable supplied and installed free of charge by Hydro-Québec
- Remote metering:
 - Permitted maximum distance of 300 m
 - Cable gauge and type determined by distance and type of installation (outdoor or underground)
 - Carrier device approved by Hydro-Québec as an automatic switching device (ASD) comme dispositif de permutation automatique (DPA)
 - ASD installed by contractor at customer expense

3. Meter location and clearance

The existing meter socket installation must in compliance with Hydro-Québec Standard E.21-10 (*Low-Voltage Electrical Service*).

The following minimum clearances must be respected:

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

Important

If the meter installation is not in compliance with Standard E.21-10 and does not meet the minimum clearances specified above, the customer is not eligible for Rate DT, unless the necessary modifications are undertaken at the customer's expense.

CONTROL EQUIPMENT CONNECTION DIAGRAM

