

CARRYING OUT RENOVATION WORK

WHAT DOES THIS MEAN?

IMPROVEMENTS TO:

- **Reduce** energy consumption
- **Raise comfort levels** by protecting against the cold, heat and noise

❗ The involvement of a certified energy consultant is a pre-requisite to receive State subsidies.



TECHNICAL EQUIPMENT TO:

- **Reduce** the carbon footprint (depending on the equipment)
- **Prevent** risks of heat loss

❗ The involvement of a certified energy consultant is **not** a pre-requisite to receive State subsidies.

Some equipment entitles the buyer to additional support from energy suppliers or local authorities. Find out more at aides.klima-agence.lu



Ceiling slab insulation (loft)

Prevents heat loss through the roof.

Roof insulation

Heat loss is mostly through the roof if it is poorly insulated.



Ventilation system (CMV)

Controlled Mechanical Ventilation. CMV expels poor air from damp rooms and pumps fresh air into dry rooms.



Replacement windows

- ❶ To receive these subsidies, the thermal efficiency of the existing outside wall must be greater than the thermal efficiency of the new windows.
- ❷ Otherwise, the work will also have to include:
 - the insulation of external walls and
 - installation of CMV.



Wall insulation (external walls)

- Most attractive insulation technique from an energy perspective.
- ❶ Sometimes it is not possible to insulate the external walls (listed building, encroachment on the pavement, etc.).

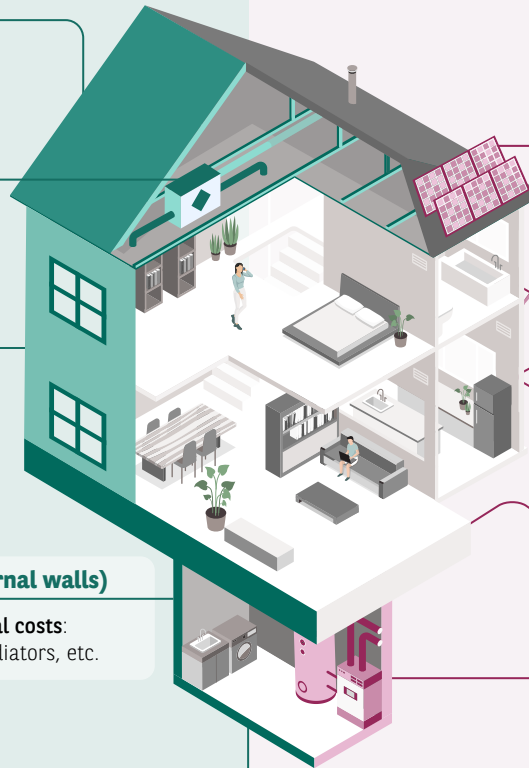
Wall insulation (internal walls)

- ❶ May lead to additional costs: electricity, moving radiators, etc.



Slab insulation (cellar and floor)

Prevents the feeling of "cold floors".



ELECTRICITY GENERATION

Photovoltaic panels

Generation of electricity from solar energy.



Domestic wind turbines

Turns wind energy into electricity.
❶ Equipment **not covered** by subsidies in Luxembourg.



HEATING

Geothermal/air-to-water heat pump

Use of ground or ambient air heat.



Wood/pellet burning stove

Use involving combustion, CO2 neutral.



Solar panels

Generation of heat/hot water from solar energy.

