

Energy pre-diagnosis sheet of the building: "resource center and offices"

General information about the building

Historical data:

2008: renovation / rehabilitation of the building.

Type of occupation:

Weekly occupancy > 75% (5 days/week).

Capacity: 3-6 people.

Size:

112 m² for the resource center and 72 m² for offices, for a total of 184m².



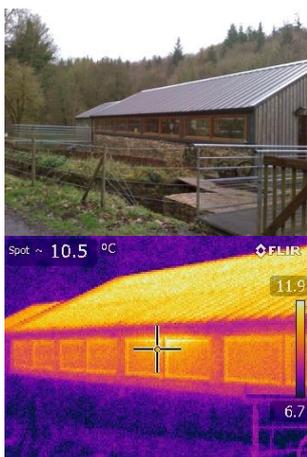
The strengths and weaknesses

Present situation



	Wall	Glazing	Roofing	Low floor
Casing Envelope	Stone + insulation + plaster board and/or wood frame + insulation	Wood joinery double glazing (large east and west area)	Steel vat deck + insulation + plaster board	concrete slab + 6 cm of rockwool + wood floor on beams
Warming Heating	Output	Distribution	Regulation	Emission
	installed power 13700 W (74 W/m ²)	Convection = stratification linked to high volume	Individual adjustment / no programming	Convactor
Domestic hot water	Output	Distribution	Storage	Tapping point
	No hot water	No hot water	No hot water	Water Tap : 10 liters/min WC : 6/8 liters no water-saving equipment

Infrared thermography extract



Defects :
Exterior joinery frame
Nothing to report on the roof!
(beware of reflection)



Defects :
Thermal bridge on metal frame of lining



Defects :
thermal bridge on low floor

Specific electricity

Electrical appliances:

8 computers: 20 W to 62 W/PC,

Powers not listed:

2 printers,

4 landlines,

Cellphones,

1 fax machine,

1 laminator.

Lighting:

Natural light illuminance level (room centre): 50 lux,

Natural light illuminance level (near exterior carpentry): 1700 lux,

Artificial light illuminance level (room centre): 360 lux.

14 neons of 56 Watts, for a total of 784 W.

The recommendations

Management:

- To support change by integrating -works in a multi-year plan,
- Energy metering (depending on meter access)? (Priority on site).

Buildings:

- Complete insulation of the low floor on the underside of the concrete floor,
- Creation of a SAS (solarized buffer space) connected to new uses (meals / resting / changing) of the locker room building?

Equipment:

- Over the medium and long term, change the heating system (removal of electric heating), heating network?,
- Install an aerator on the toilet tap,
- Reduce the volume of water used for WC,
- There is no ventilation system. Favor the installation of ventilation adapted to the uses. Priority to offices (small volume).
- When renewing lamps, reduce installed power (shift to Led),
- Choose office equipment (computers ...) with low power consumption (Star Energy ...) when changed next,
- Set up watches on Computing Equipment (small, medium and short use).