

# Energy pre-diagnosis sheet of the building: "the chapel"

## General information about the building

### Historical data:

**12th century:** construction.  
**1900-2002:** used as a cowshed.  
**2003:** Change in usage (cultural site).

### Type of occupation:

Weekly occupancy < 30% (summer period mainly).  
 Annual attendance: approximately 1,000 people.

### Size:

Ground floor of 79 m<sup>2</sup>, volume close to 415 m<sup>3</sup>.



## Strengths and weaknesses

### Present situation



	Wall	Glazing	Roofing	Low floor
<b>Envelope</b>	Stone (granite), thickness close to 1 m	Aluminum double glazing (4/16/4)	Slate + rain barrier + wood without insulation	Concrete slab without insulation + joist + parquet flooring
	Output	Distribution	Regulation	Emission
<b>Heating</b>	wood boiler « Buderus » 10-42 kW	copper network poorly insulated	No regulation / no programming	Unit heater (= stratification + stream of hot air)
<b>Domestic hot water</b>	Output	Distribution	Storage	Tapping point
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## Specific electricity

### Lighting:

**5 projectors (upward orientation):** power not listed,  
**2 projectors (downward orientation):** power not listed.

## Recommendations

### **Management:**

- To support change by integrating works in the multi-year plan (priority to humidity, water ingress and heritage preservation).

### **Buildings:**

- Outside pointing (lime / sand), most important no cement joints,
- Remove cement joints inside/outside,
- damaged joints on external joinery to renew,
- Moisture management on the roof (heating zone) and consequences on the building.

### **Equipment:**

- No ventilation, no air inlets (set up manual natural ventilation)
- No frost protection (unheated building), boiler nearby?
- Constraint of manual loading, when renewing the heater, favor automatic mode, heating network?
- When renewing lamps, reduce installed power (shift to Led).