

- **Climate Risk Region:**
- **Weather event addressed:**



Continental



Summer

- **Farming System:** Livestock All animals
- **Farm vulnerability component:** Animal welfare
- **Description:**

Photovoltaic system on the barn roof to reduce the temperature in the barn

• **Comments on sustainability:**

Photovoltaic systems have a cooling effect on the barn as they avoid the direct solar radiation onto the barn roof. At the same time, photovoltaic produces renewable energy which can be used for other energy needs on the farm (e.g. additional sprinkler, ventilator, milking system). The first investment is high but this can be balanced out by the produced energy and the increased animal welfare. Cool barn temperatures reduce the ammonia emissions.

→ Implementation · MID TERM

SUSTAINABILITY COMPONENTS

- GHG emissions
- Air quality
- Soil
- Water
- Biodiversity
- Animal Welfare
- Economic
- Social
- Technical Feasibility