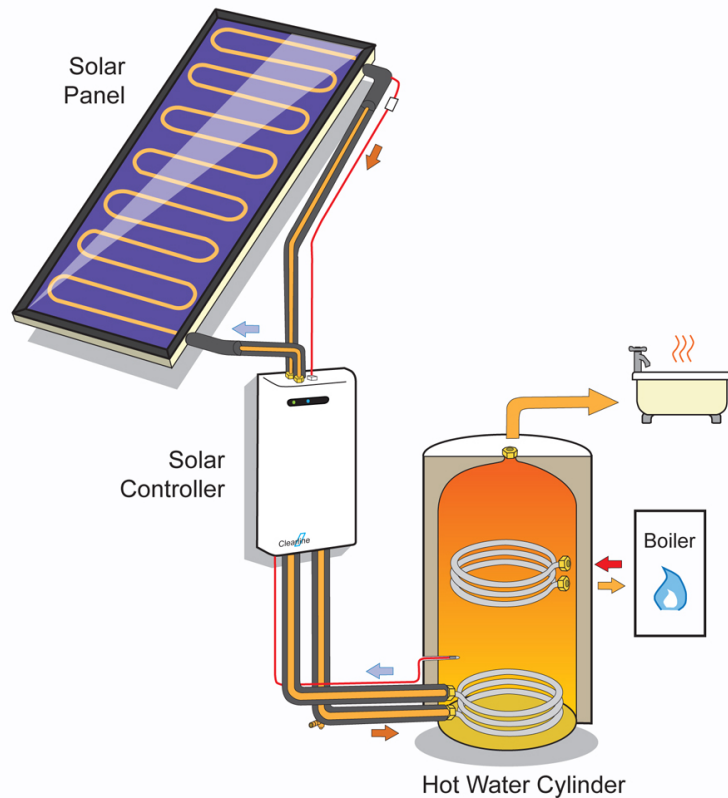# CD2E's co-creation pilot project
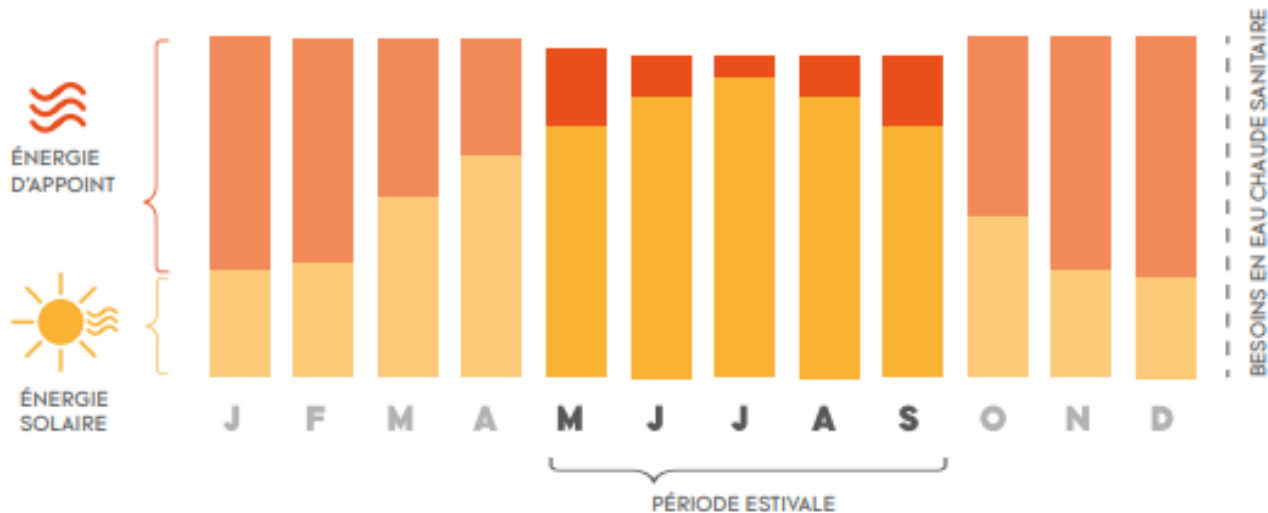
Solar thermal in social housing

- CD2E: A regional catalyst for sustainable projects

- Typical solar thermal applications in the region:
    - Sanitary hot water in housing
    - Sanitary hot water in hospitals, elderly homes, etc
    - Private hot water (swimming pools, industry)
    - Hot water in agriculture (veal farms, greenhouses...)

Solar thermal for sanitary hot water

- Solar panels installed on existing system
- Robust technology, with decades of experience

- Low maintenance if done well
- Risks if done poorly:
  - Bacteries (legionnellosis)
  - Overheat

Solar thermal for sanitary hot water

ÉNERGIE D'APPOINT

ÉNERGIE SOLAIRE

J F M A **M J J A S** O N D

PÉRIODE ESTIVALE

BESOINS EN EAU CHAUDE SANITAIRE

- Provide about 50% yearly energy needs for hot water
- Do NOT replace existing heaters, only complement them

Solar thermal for social housing

- For tenants
  - Lower hot water bills
  - Better energy security
  - An opportunity to live in a greener building
  - A hassle and potential threat
- For landlords:
  - An investment without direct returns
  - Indirect benefits: lower default rates, higher satisfaction
  - Image and communication benefits
  - An opportunity to be more sustainable

The project

- 3 years and a half
- Target: facilitate installations for 2500 households with 10 SHOs

- Co-creation: centre the project on inhabitants
  - Involve them in the process
  - Focus on benefits for them

Current progress

- Several SHOs at varying levels of interest/engagement

- One concrete plan with Partenord Habitat
  - Solar thermal in two buildings
  - Collective hot water for 352 households
  - Awaiting authorisation, installation to begin in 2021

COVID impact

• Budget reductions for SHOs
• Lower priority on innovation from SHOs

• Generalised delays from authorities and builders
• Much harder to engage inhabitants

Future steps

- Build upon the existing project with Partenord

- Assume no improvement on the COVID situation
  - Intensify communication efforts towards SHOs
    - Sales-like effort
    - Group adresses
  - Start approaching inhabitants