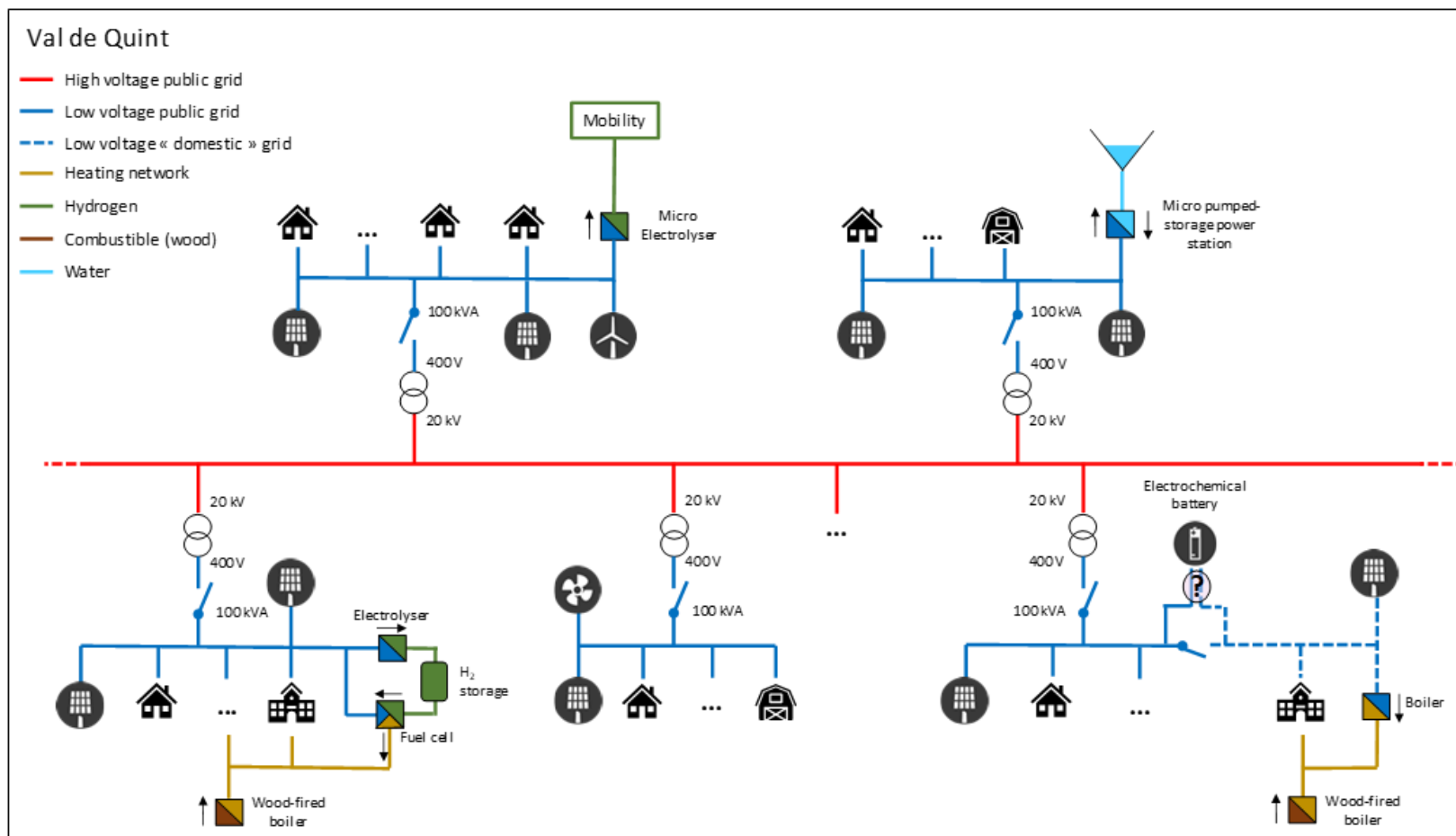


Insights from ALPGRIDS pilots

European Final Conference, 8 April 2022
Michael Stöhr, B.A.U.M. Consult

Microgrid Pilot 1: St Julien and Val de Quint (FR)



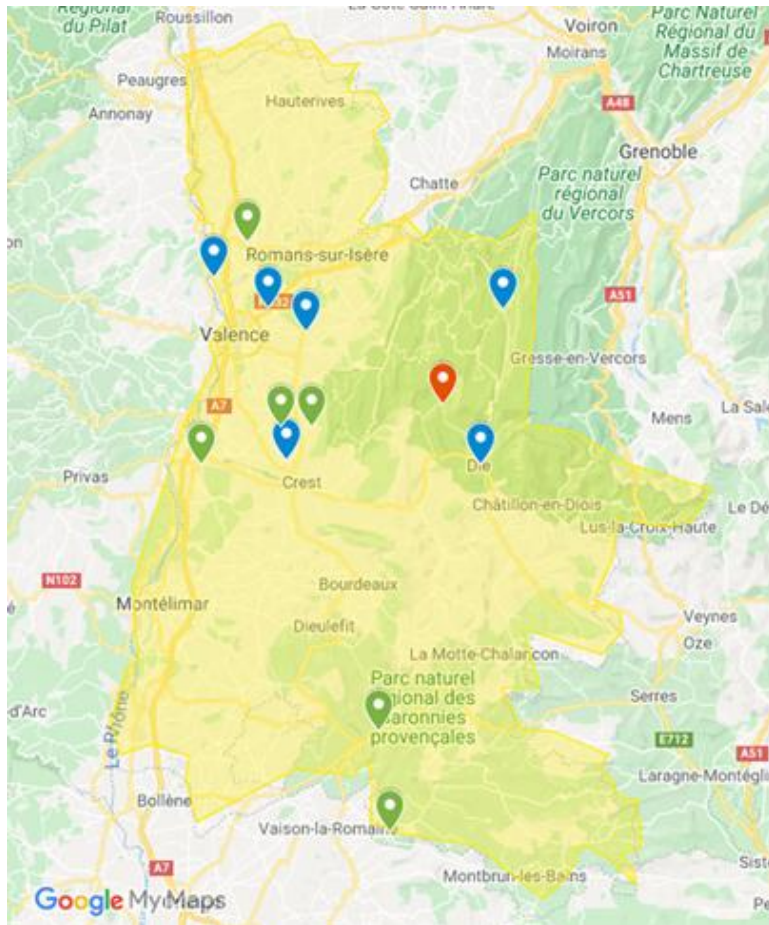
Scheme of the Saint Julien-en-Quint Microgrid extended to the entire Val de Quint area

Insights from Pilot 1: St Julien and Val de Quint (FR)



- Optimum use of the flexibility of the consumer loads is a key point for the economic viability of collective self-consumption schemes in France.
- Collective self-consumption schemes should be allowed to involve consumers / prosumers connected to different low-voltage substations with a specific, adapted grid access fee.

Location of Pilot 2: Drôme (FR)



Saint-Julien-en-Quint
(CNR)



6 pilot sites where a
collective self-
consumption project will
be designed in ALPGRIDS



Associated municipalities
interested by the issue
and might benefit from
the results to develop
their own project

Pilot sites in Drôme

Insights from Pilot 2: Drôme (FR)



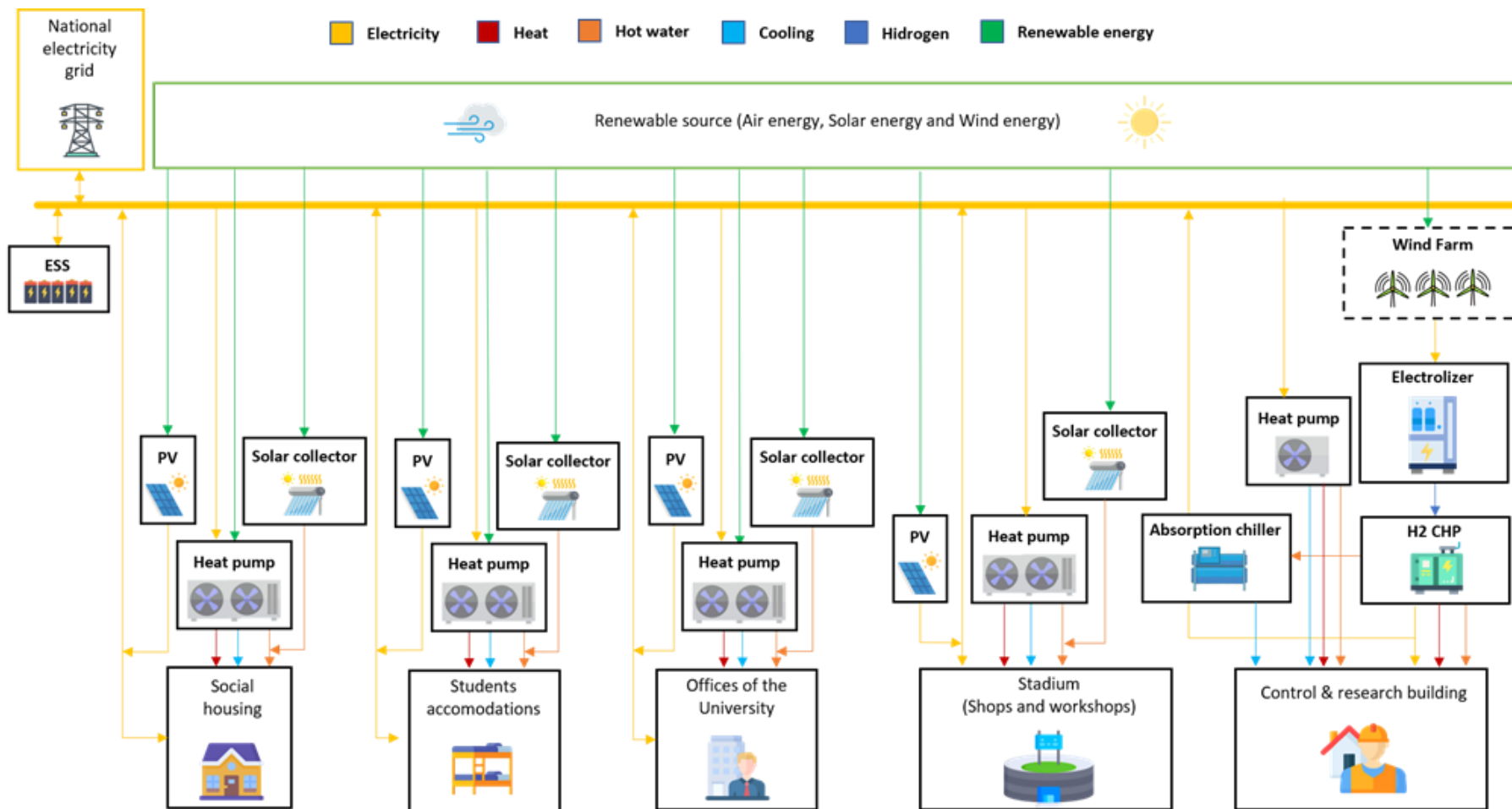
- Collective self-consumption schemes should be remunerated for excess electricity fed into the public grid as is allowed by French legislation since October 2021.
- Keeping administrative processes as simple as possible is a key point.
- Including municipal buildings in collective self-consumption schemes allows for a higher rate of direct use of photovoltaic electricity.

Location of Pilot 3: University Campus Savona (IT)



SPEED2030 – Savona pilot site

Microgrid Pilot 3: University Campus Savona (IT)



Scheme of the Savona Campus Microgrid

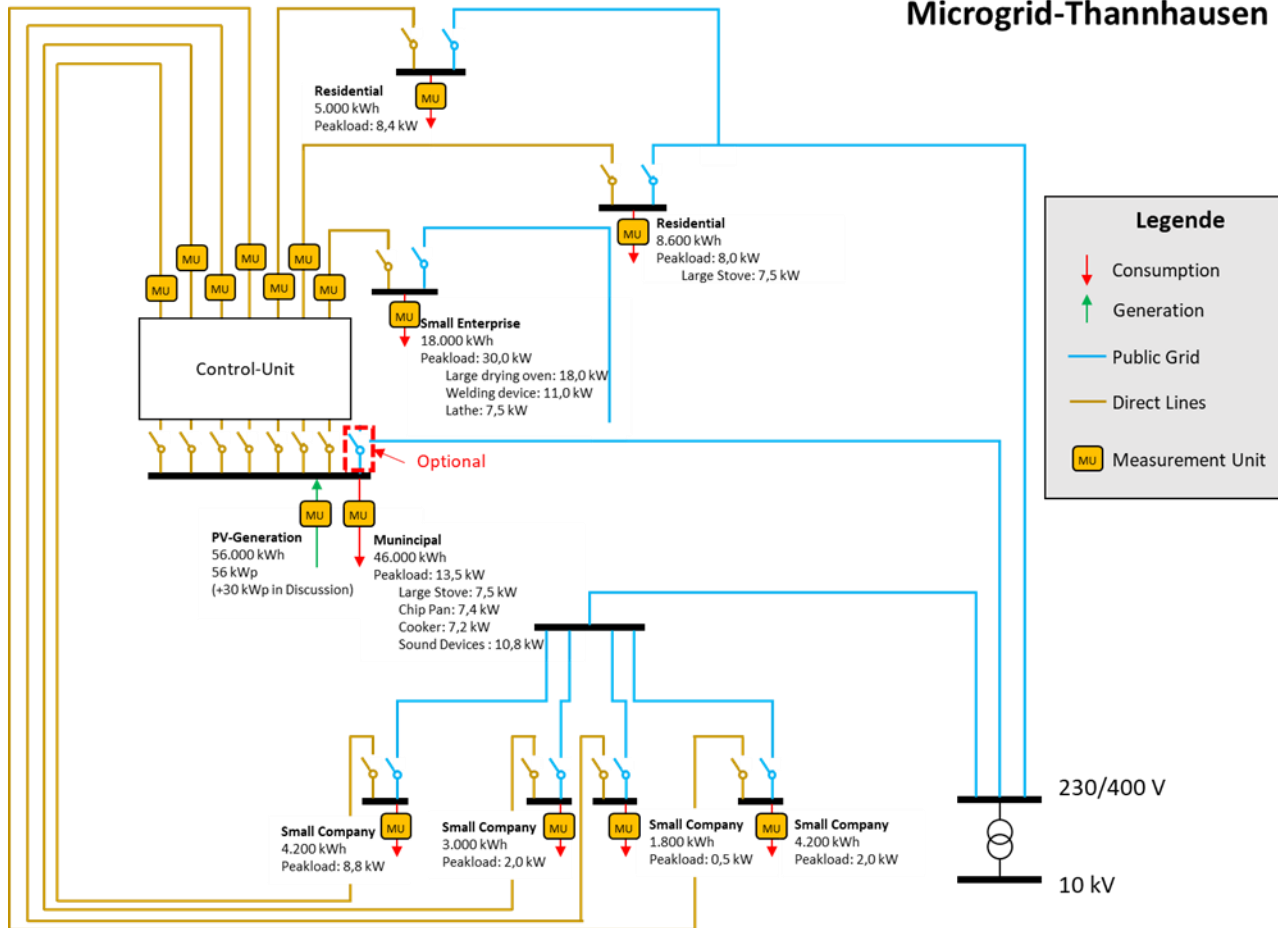
Insights from Pilot 3: University Campus Savona (IT)



- Positive Energy districts contribute to reduce gas requirements in a twofold way: by moving energy consumptions to electricity and by minimizing energy supply from the grid thanks to self-production systems with storage.
- It is important to extend the boundaries of Energy Communities by also including producers, consumers and prosumers connected via the medium voltage grid and fed by the same HV/MV substation. Microgrid solutions should be encouraged in association with Energy Communities to increase the efficient use of resources.
- The legal framework should allow microgrid operators to provide services to the upstream grid thus improving the microgrid's economic feasibility.

Microgrid Pilot 4: Thannhausen (AT)

Microgrid-Thannhausen



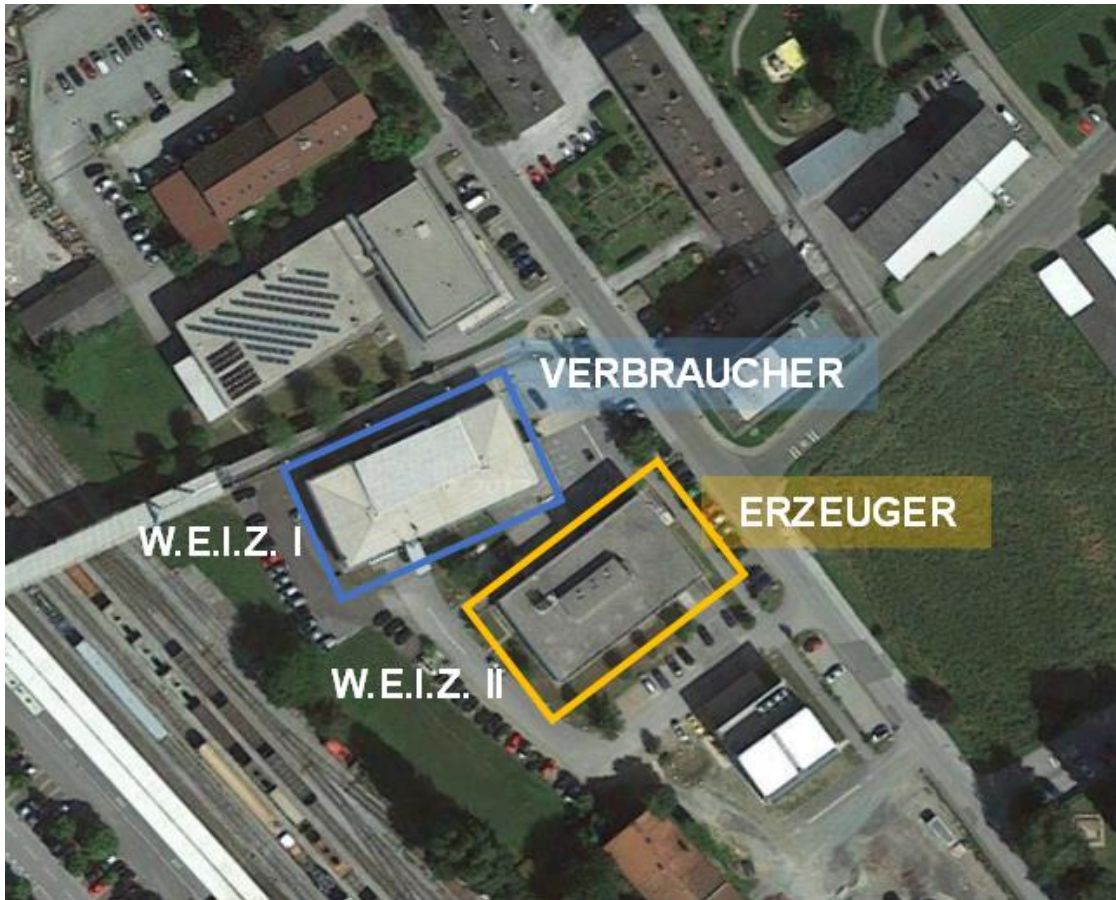
Scheme of the Thannhausen Microgrid

Insights from Pilot 4: Thannhausen (AT)



- A microgrid requires a central player with a coordination role.
- Involving interactively all microgrid users as well as the upstream grid operator is paramount.
- The repartitioning of cheap local energy among microgrid users / energy community members requires a fair distribution key that inspires confidence.

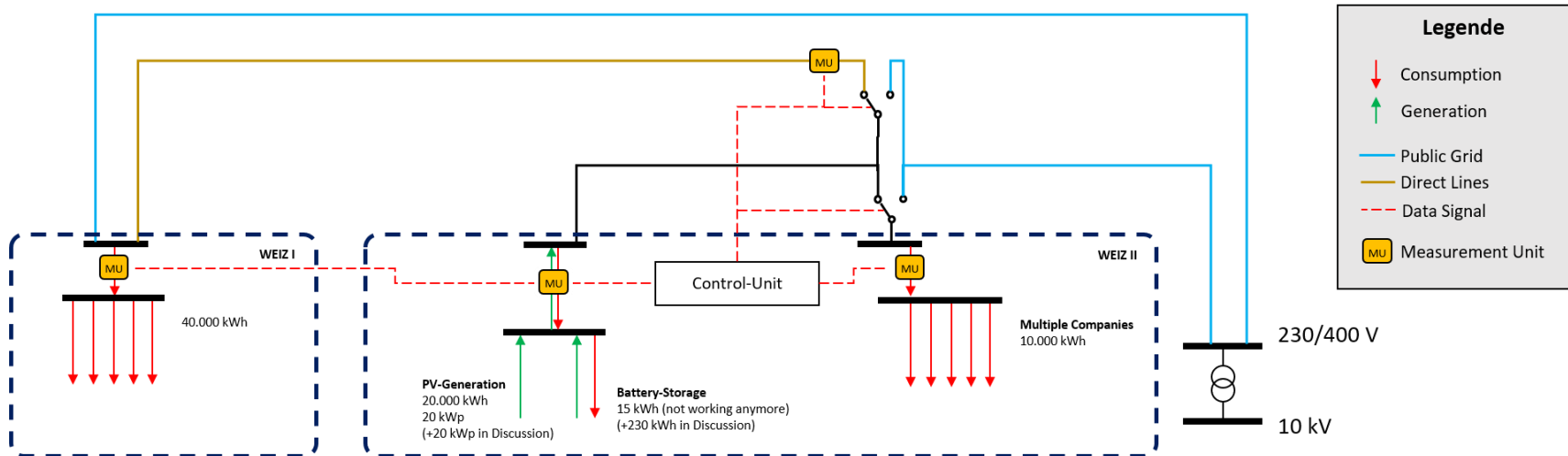
Location of Pilot 5: W.E.I.Z. Campus (AT)



Location of the W.E.I.Z. Campus Microgrid

Microgrid Pilot 5: W.E.I.Z. Campus (AT)

Microgrid-WEIZ



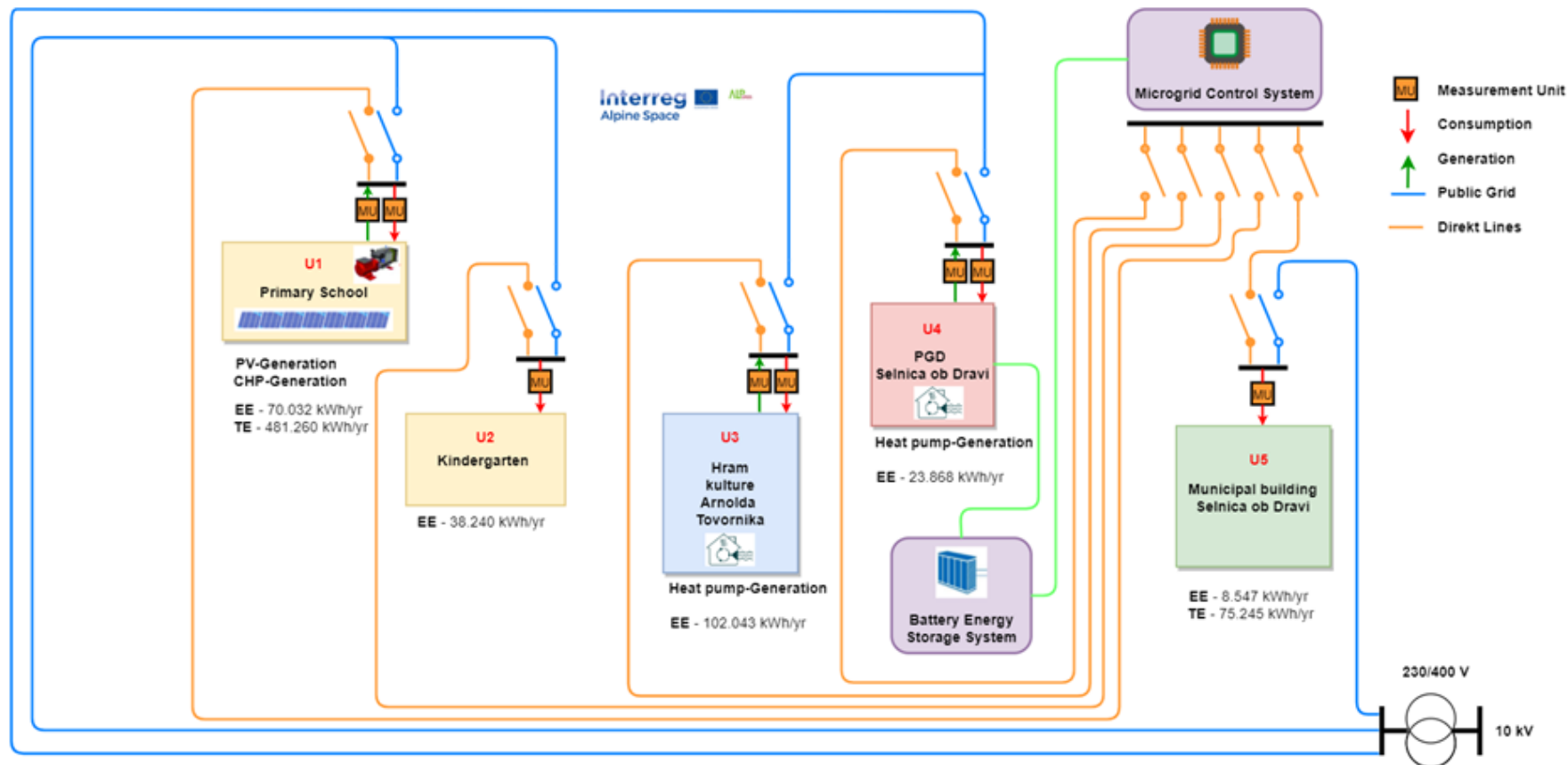
Scheme of the W.E.I.Z. Campus Microgrid

Insights from Pilot 5: W.E.I.Z. Campus (AT)



- Energy communities should be run by citizens, municipalities and SMEs.
- Microgrids / energy communities can provide a wide range of benefits. Financial profit is not the most important one, but social, ecological and economic benefits.

Microgrid Pilot 6: Selnica (SL)



Scheme of the Selnica Microgrid

Insights from Pilot 6: Selnica (SL)



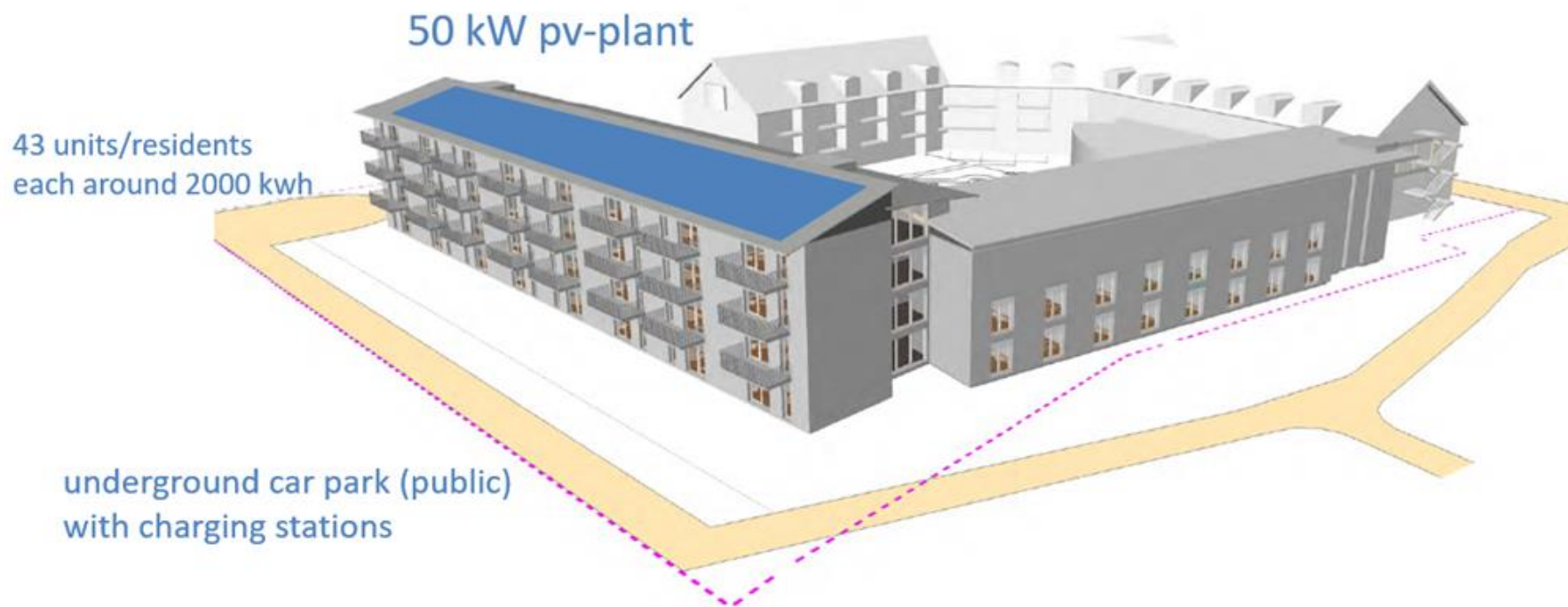
- The biggest problem was the late transposition of the EU directives dealing with energy communities.
- It would be helpful for municipalities to have a guidebook on how to set up an energy community in practice, including the processes and administrative obligations.

Location of Pilot 7: Grafig (DE)



Location of the Grafig Microgrid

Microgrid Pilot 7: Grafig (DE)



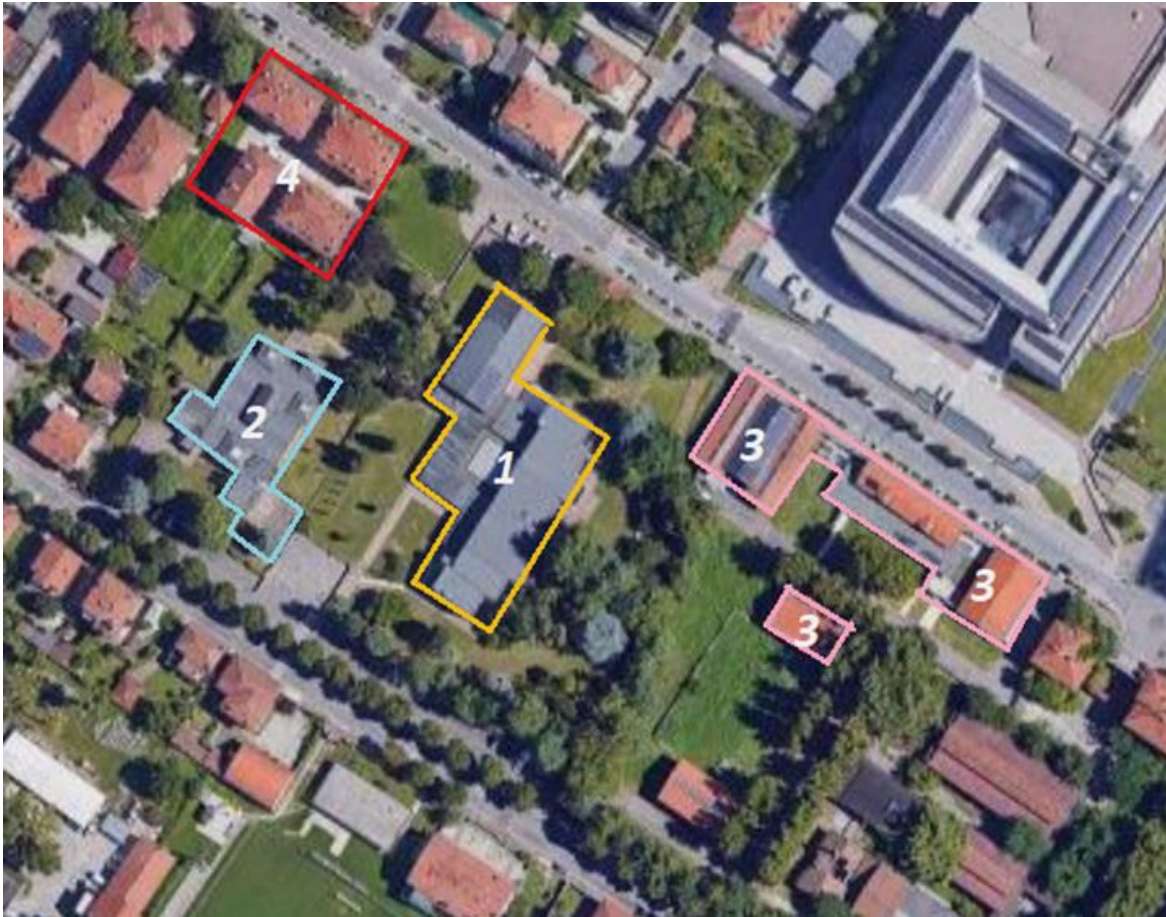
Scheme of the Grafig Microgrid

Insights from Pilot 7: Grafing (DE)



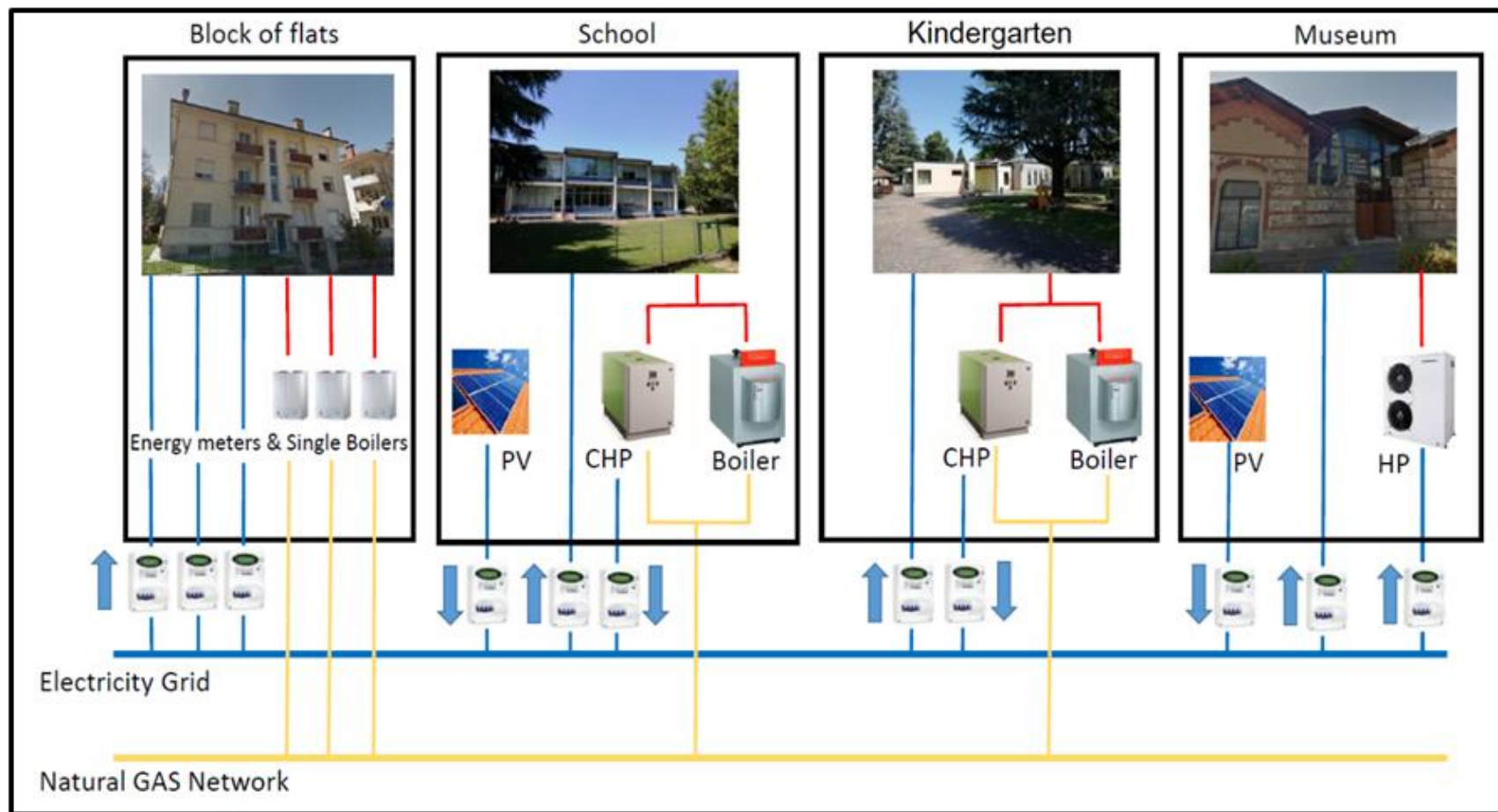
- The right to use the public grid without paying the full network charges or being confronted with excessive bureaucratic regulations is paramount.
- If the legislative framework refers to notions such as „neighbourhood“, a definition of the notion should be included in the law or ordinance.

Location of Pilot 8: Udine (IT)



Location of the Udine Microgrid

Microgrid Pilot 8: Udine (IT)



Scheme of the Udine Microgrid


Insights from Pilot 8: Udine (IT)



- It is important to support potential microgrid operators with detailed guidelines for setting-up and operation.
- For wide replication, demonstration microgrids involving municipal players are very helpful.

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Pilot report
9.07 mb
Deliverable D.T1.3.2

Available online:

<https://www.alpine-space.org/projects/alpgrids/en/project-results/wp-t1-creating-a-common-and-shared-understanding-of-microgrids/dt1.3.2---pilot-report>