



## Solution package 3:

Deployment of energy-efficient buildings integrating onsite RES and storage

## SP3 Solutions, challenges and learnings

### Session Summary

During the first session of the SP3 Communities of Practice, the ASCEND cities of Lyon (FR), Munich (DE), Budapest (HU), Prague (CZ), Charleroi (BE) and Stockholm (SE) presented their planned solutions, challenges and learnings over the first 15 months of the project. A plenary discussion followed to identify shared challenges and exchange experiences

### Resources

- Five PCED Books : Implementation status report – M12. ASCEND. 2024.
- Lyon PCED roadmap report. ASCEND. 2023.
- Munich PCED roadmap report. ASCEND. 2023.

### Common Challenges

- **Construction costs** have significantly increased over the last two years, challenging planned solutions, including new works, renovations and RES installations.
- **Private ownership:** While the percentages of private property vary from district to district, the role of private owners remains critical for the transformations needed to achieve PCED.
- **Heritage buildings** present specific challenges for PCEDs. Examples of this are Charleroi's decommissioned industrial buildings, and Budapest's school, to be transformed into housing.

### Main Takeaways

- Intersecting SP5, strategies to engage private owners and encourage them to improve their building's performance and increase RES production are crucial. Close cooperation between these two SPs is crucial to achieve PCED.
- A variety of tailored economic models are necessary to accommodate the different uses, ownership models, building and intervention types needed across ASCEND cities.

### Quote

*"The exchange of experiences between peers proves to be very enriching as it provides very useful knowledge to face challenges that many cities share. Interesting needs arose such as expanding knowledge in successful examples of former industrial building refurbishment, circular energy master plan design and RES solutions beyond than PV, as well as the problem of access to funding."*

**Jonatan Viejo, CARTIF**

