



POLITECNICO
MILANO 1863

Good Practices for a Sustainable Transition

07.10.2025 | Giulia Taromboli

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Strategic Sustainability Plan 2023-2025

Objective

Increase renewable generation and self-consumption

Target

- + 5 MW of PV installed capacity
- At least 3 established energy communities

Actions

- *Renewable generation* → Installation of **1.7 MW/year** of PV capacity across campuses
- *Energy communities* → Development of at least 3 energy communities through the engagement of **local and public actors**



PIANO
STRATEGICO DI
sostenibilità
2023-2025

What is a Renewable Energy Community?

Renewable Energy Community (REC): an independent legal entity in which members can share self-produced renewable electricity (EU Directive 2018/2001).

Allowed benefits:

ENVIRONMENTAL



ECONOMIC



SOCIAL



Energy communities have a **local nature**: renewable plants must be installed close to the members.

But how close? That depends on the country.
*In Italy, the boundary for energy sharing is the **primary substation***

CER.ca.MI: Areas for Energy Sharing

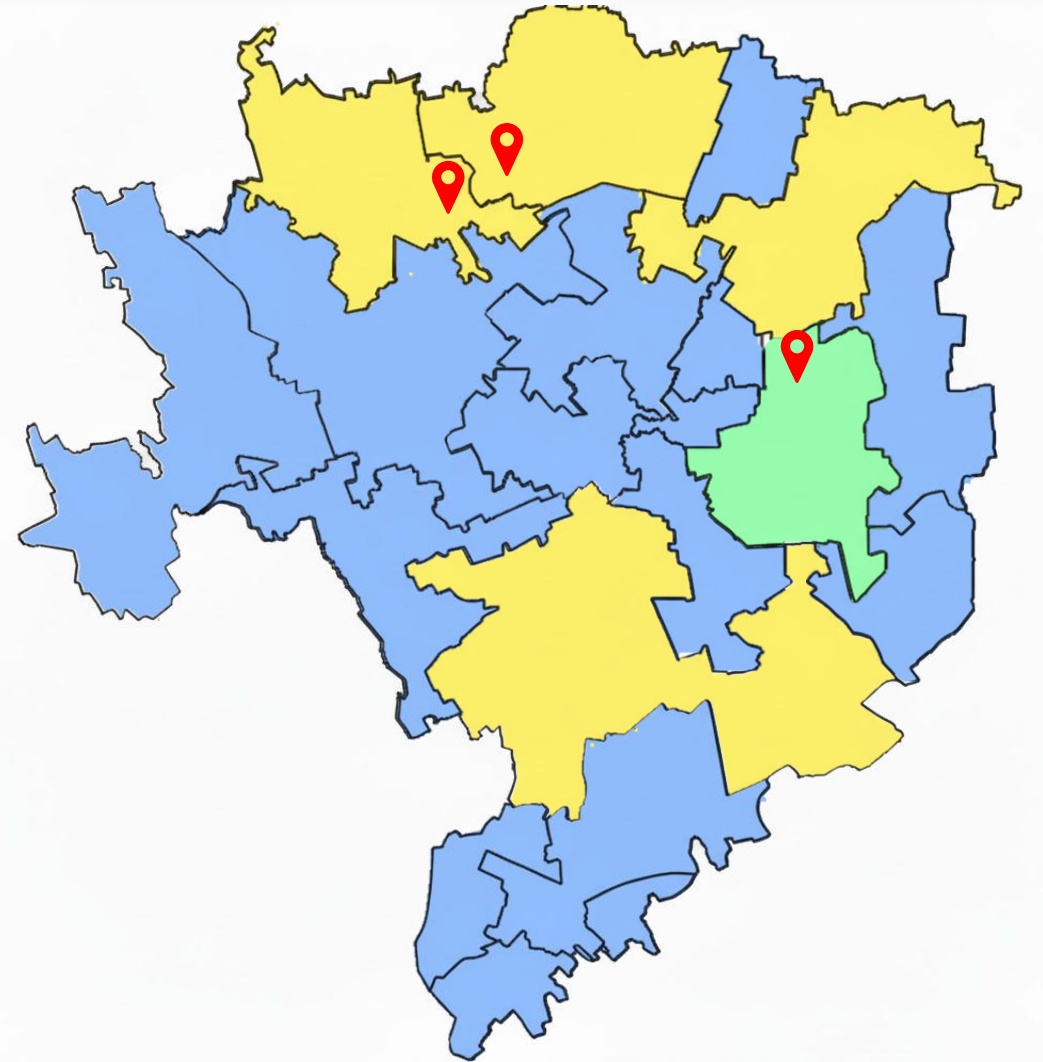
The energy community covers the whole city of Milan

There are **19 configurations** in total:

- Already **ACTIVE**: 1
- Under **ACTIVATION**: 4
- **PLANNED**: 14



Politecnico Campus



Map of Milan city

CER.ca.MI: A virtuous example



CER.ca.MI stems from the **joint effort** of public and local actors

Public actors

- Politecnico of Milan
- Municipality of Milan



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Comune di
Milano

Community actors

- Abitare Società Cooperativa
- Cooperativa Diapason
- Terzo Paesaggio ETS
- Fondazione Aquilone

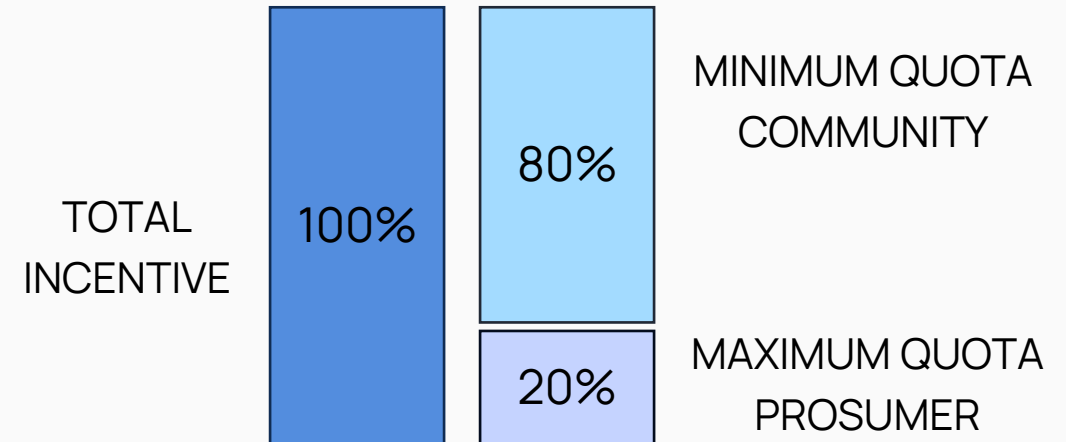


CER.ca.MI: Energy Sharing Incentivisation

*The energy shared within each configuration is
financially rewarded*

CER.ca.MI is an energy community with a **social mission**:

- The incentive majority remains with the community to finance social projects
- Only up to 20% of the incentive is allocated to prosumers.



Our journey so far

April 2022

Start of work at Polimi

October 2022

Establishment of working group
with Municipality of Milan et al.



Comune di
Milano



ABITARE
società cooperativa

Several discussion in between...

A single or more associations?
Which legal form?
How to manage the incentive?

October 2024
Establishment of
CER.Ca.MI
association



Scan me!

And what's next?

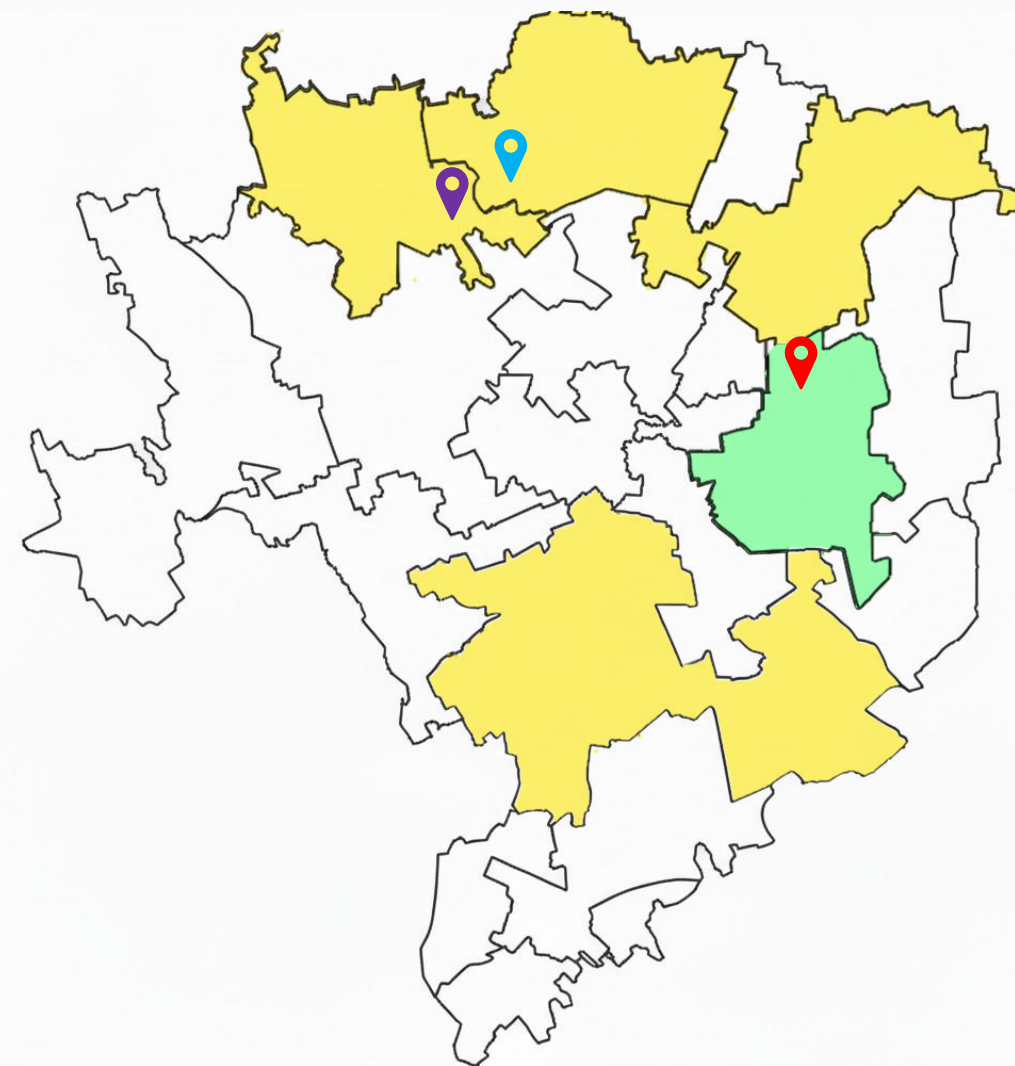
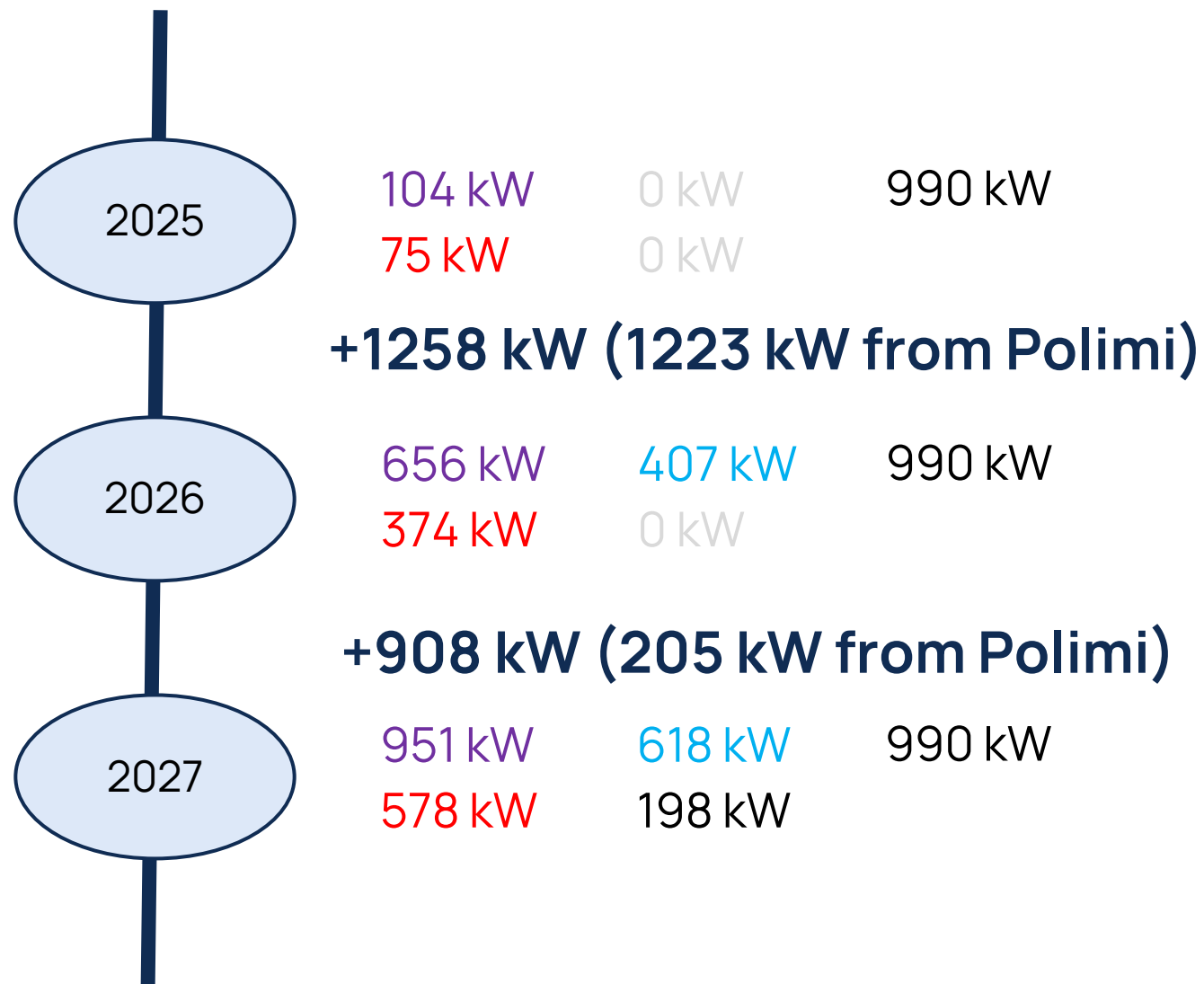
Additional configurations on the way:

- 2 by the end of 2025
- 2 between 2026 and 2027

April 2025
Launch of first
configuration:
Città Studi

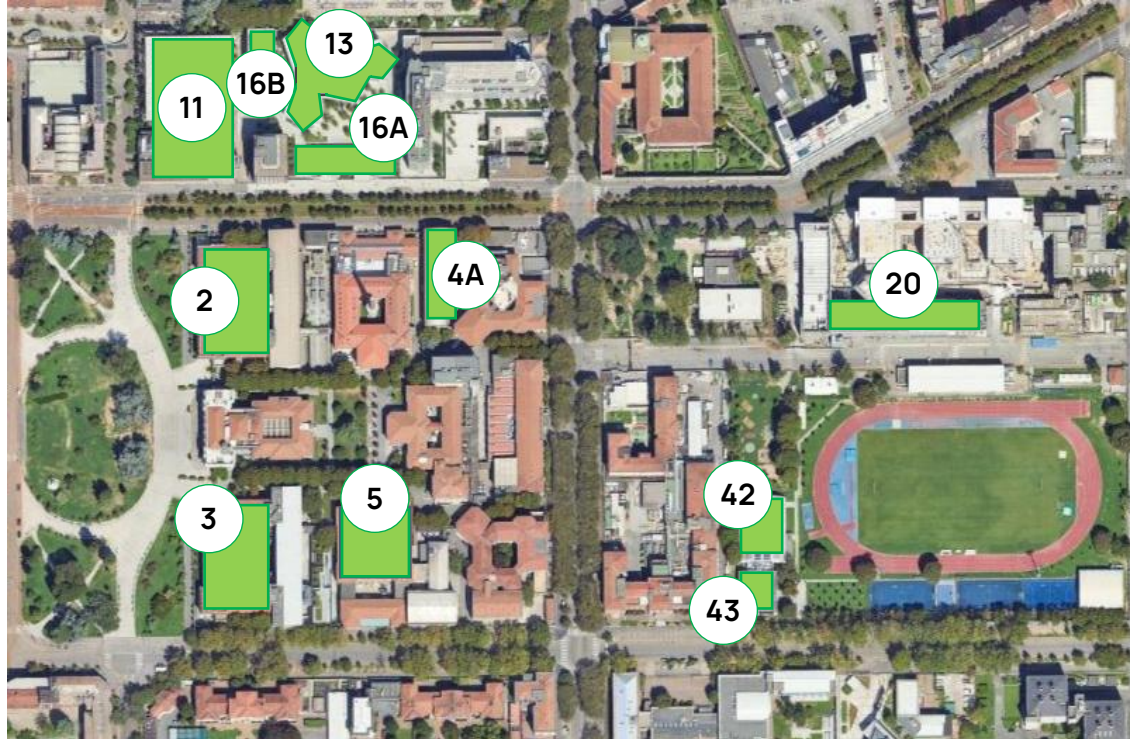


Our energy



Map of Milan city

Our energy: Campus of Città Studi (1/2)



Map of Città Studi Campus – Main campus

The majority of consumption (15 GWh/y) is already covered by cogeneration!

CURRENT SITUATION

Annual electricity withdrawal: **3 600 MWh**

Installed capacity: 1 069 kW

Capacity under development

- None

Production [MWh/y]	Self-consumption [MWh/y]	Injection [MWh/y]	Withdrawal [MWh/y]
1 175	1 175	0	2 425

- Self-consumption rate: **100 %**
- Withdrawal reduction: **30 %**

Our energy: Campus of Città Studi (2/2)



Map of Città Studi Campus – Via Golgi

CURRENT SITUATION

Annual electricity withdrawal: **3 553 MWh**

Installed capacity: 75 kW

Capacity under development

- **2026:** 290 kW

Production [MWh/y]	Self-consumption [MWh/y]	Injection [MWh/y]	Withdrawal [MWh/y]
424	350	74	3 202

- Self-consumption rate: **83 %**
- Withdrawal reduction: **10 %**

Our energy: Campus of Bovisa La Masa



Map of Bovisa La Masa Campus

CURRENT SITUATION

Annual electricity withdrawal: **16 478 MWh**

Installed capacity: 145 kW

Capacity under development

- **2026:** 552 kW
- **2027:** 295 kW

Production [MWh/y]	Self-consumption [MWh/y]	Injection [MWh/y]	Withdrawal [MWh/y]
918	904	14	14 296

- Self-consumption rate: **98.5 %**
- Withdrawal reduction: **13 %**

Our energy: Campus of Bovisa Candiani



Map of Bovisa Candiani Campus

CURRENT SITUATION

Annual electricity withdrawal: **4 468 MWh**

Installed capacity: 0 kW

Capacity under development

- **2026:** 372 kW

Production [MWh/y]	Self-consumption [MWh/y]	Injection [MWh/y]	Withdrawal [MWh/y]
399	398	1	4 070

- Self-consumption rate: **99.8 %**
- Withdrawal reduction: **10 %**



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Contacts

giulia.taromboli@polimi.it