

iDesignRES Stakeholder Workshop – Lombardy Use Case

Date: 28th October 2026 – Morning session

Location: Politecnico di Milano, [EN:lab | Dipartimento di Energia, Edificio 31, Via Lambruschini- 20156](#)

Purpose of the Workshop:

The purpose of the workshop is to present and validate the preliminary results of the iDesignRES Lombardy use case with regional authorities, network operators, and industrial stakeholders; verify whether the models adequately represent local planning and investment constraints; identify priority policy, infrastructure, and industrial-transition scenarios for the final analysis; and agree on remaining data needs and next steps for applying the project tools.

Expected Concrete Outputs:

1. *Validation of Assumptions & Data Needs: Stakeholder feedback on baseline parameters and identification of missing data sources (and data providers).*
2. *Actionable Decision Mapping: Mutual agreement on how the integrated project tools support actual regional, network, and industrial investment decisions*

AGENDA

9:00 – Registration

9:15-Welcome and Introduction – Prof. Francesco Grimaccia, Deputy Director, Politecnico di Milano

9:30 – IDesign RES Presentation

Goal of the project, project structure, why this project matters.

9:45 – Lombardy Use Case Presentation – Fabrizio Guarrasi, Innovation Manager, LE2C

- Lombardy context, research questions, scenarios analysed, stress tests
- Local problems identified through stakeholder research: increasing renewables (PV and wind), adapting the electricity grid, adequacy/flexibility/storage, decarbonising civil and transport sectors, HTA decarbonization, socio-economic impacts (investments, jobs)
- Models implemented in the use case, workflow overview, expected project results

(Note for speaker: keep this focused on "what we found" and "what we expect to deliver".)

10:00 – Regional Transition Pathways & Infrastructure Planning- GenSysMOD, GEOMEC and JRC Models

For each model: Regional planning question addressed by the model, its contribution to the project, Geographical and temporal scope, dependencies on other models, what inputs stakeholders need to provide to the model, what outputs they receive, Model limitations and assumptions to be validated with the room. Make an integrated workflow presentation

10:45 – Q&A

11:00- Break

11:20 – Workshop 1: DEUSTO – Industry Decarbonisation & Collective Strategies

Question for the room: *What infrastructure is needed to decarbonize Lombardy's hard-to-abate industries? How do infrastructure deployment timelines and investment milestones shape sectoral transition pathways?*

- **Brief model introduction** — translating European transition scenarios into plant-level industrial pathways; hybrid modeling approach combining continuous efficiency improvements and discrete investment milestones.
- **Demo:** decarbonization pathways for the selected industrial sectors (cement and steel), highlighting infrastructure requirements, technology deployment milestones, and the interaction between efficiency gains and new energy demands (electrification, hydrogen, CCUS).
- **Regional perspective:** application to the Lombardy industrial cluster, moving from European averages to regional infrastructure realities.
- **Close with:** “What does this mean for you?” — one perspective for industry (investment timing, technology readiness, and stranded asset risks) and one for public administration (regional infrastructure planning and renewable fuel demand)

11:40 – Q&A

11:50- Workshop 2: POMATWO – Power System Dispatch & Grid Bottlenecks

Question for the room: “Under a defined future scenario for additional PV capacity and increasing electrified demand, where and when do network constraints arise, and how are electricity prices affected.”

- **Brief model introduction**
- **Demo:** show results from different scenarios to see where the bottlenecks emerge on the grid
- **Close with:** a concrete analysis of the situation in the electric network supposing different future scenarios — a clear read on whether decarbonization is actually feasible at that location today

12:20 - CloudHub platform + show Scenario Explorer

what we have at the moment, how it works, etc.

12:30 – End-user feedback and interaction / Next Steps

Q&A + (feedback, data contribution, co-designed scenarios — connecting back to the collective strategy gap identified in the research.

13:00 – Light lunch & Networking