



Online training on

"Dynamic modelling of RETs for the building Environment"

May 2025, 26th-28th

Lecturer: Assoc. Prof. Luca Del Zotto

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Course content: this basic course delves into the dynamic simulation of Renewable Energy Technologies (RETs) within the building environment using TRNSYS software. The course will focus in modeling and analyzing RETs (e.g. solar thermal systems and photovoltaic arrays) seamlessly integrated with building performance. The goal is to learn:

- TRNSYS interface and build simple system models.
- **Dynamically simulate** the interaction between RETs and building loads
- Evaluate the performance and energy savings potential of different RET integration • strategies.
- Optimize system design for maximum efficiency and cost-effectiveness. •
- Analyze simulation results to inform design decisions and demonstrate the benefits of • sustainable solutions.

Session	Title	Lecturer	Day	Date	Starting time (CET)	Length (hrs)	Platform
1	Introduction to TRNSYS - TRNSYS interface - Example of TRNSYS simulation	Luca Del Zotto	Monday	26/05/2025	10:00	3	Gotomeeting
2	Introduction to TRNBuild - TRNBuild interface - Example of TRNBuild Model	Luca Del Zotto	Tuesday	27/05/2025	10:00	3	Gotomeeting
3	TRNSYS modelling - Implementation of a simulation model	Luca Del Zotto	Wednesday	28/05/2025	10:00	3	Gotomeeting



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