

POWER TO THE PEOPLE

IL FUTURO DELL'ENERGIA
È NELLE NOSTRE MANI



Prof. Luigi Martirano
DIAEE

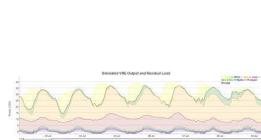


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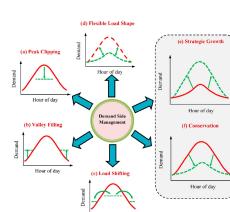


IL CONTESTO

Elettrificazione
degli usi finali



Decarbonizzazione
e uso fonti rinnovabili



FLEXIBILITY



AGGREGATION

Digitalizzazione e
«smartizzazione»
della rete elettrica



MONITORING



KNX

BACS

BIM

DIGITAL TWIN



ATTIVITA' DI RICERCA

The screenshot shows the usBIM.browser interface. On the left is a 3D rendering of a building with various components like solar panels and HVAC units. On the right is a control panel titled "usBIM IoT - Pannello di controllo". It displays four rows of controls for "LUCI (8)" and "POTENZA (5)". The first row shows "DALI 1" with "FV" and a value of "8.32 kW". The second row shows "DALI 2" with "GENERALE" and a value of "-8.64 kW". The third row shows "DALI 3" with "MICROGRID" and a value of "1.08 kW". The fourth row shows "DALI 4" with "SERVIZI" and a value of "0.74 kW". There are also "On" and "Off" buttons for each row.



DIAEE
Department of Astronautical, Electrical and
Energy Engineering

DIAEE
Digital Twin

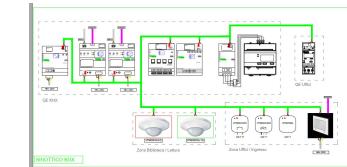
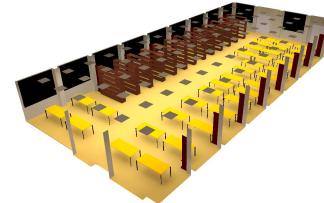
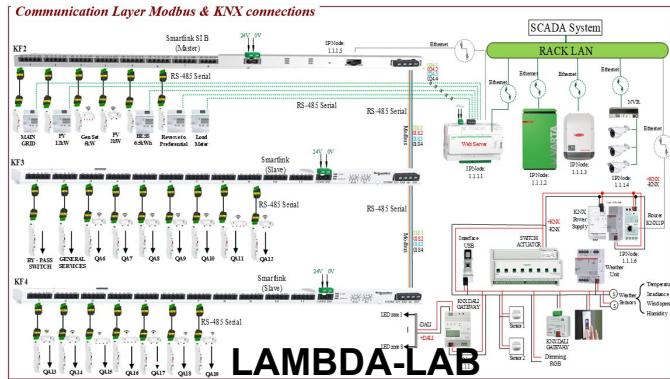
- Building automation, smart infrastructures, smart microgrids
- BIM & SCADA
- End users aggregation, storage and power sharing

**Building Information Modeling
and Supervisory Control and
Data Acquisition Integration**

THE LAMBDA LAB DIGITAL TWIN

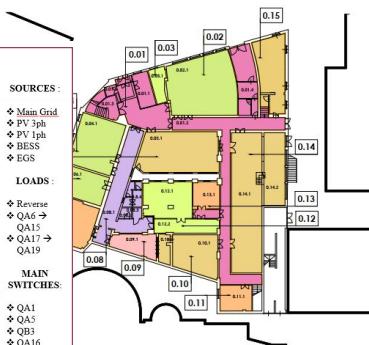


ATTIVITA' Sperimentale



SMART APPLICATIONS

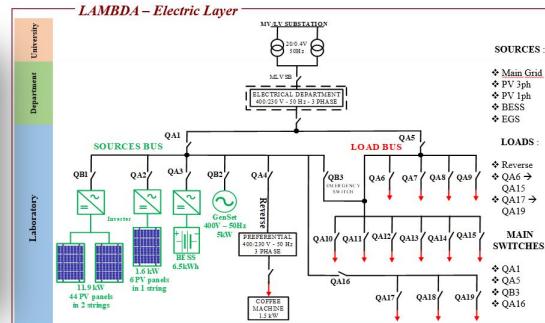
PIANO TERRA individuazione ZONE DI CARICO E NUMERAZIONE AMBIENTI



PIANO PRIMO individuazione ZONE DI CARICO E NUMERAZIONE AMBIENTI



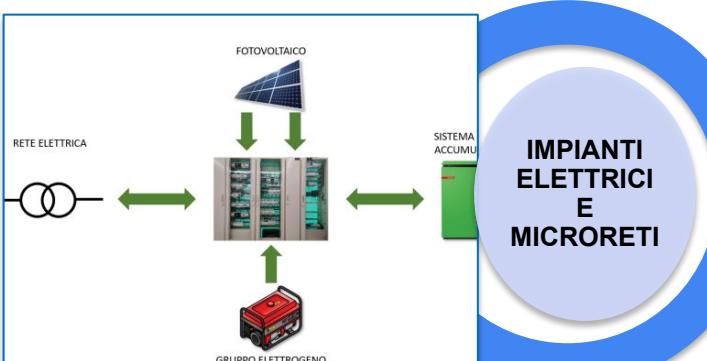
SMART DIAEE



ATTIVITA' DIDATTICA

DIPARTIMENTO
DI INGEGNERIA ASTRONAUTICA
ELETTRICA ED ENERGETICA

SAPIENZA
UNIVERSITÀ DI ROMA



- Laurea in Ingegneria dell'Energia Elettrica
- Electrical Engineering
- PhD in Engineering and Applied Science for Energy and Industry



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IL GRUPPO DI LAVORO – LAMBDA



SAPIENZA
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Prof.ssa Cristina Moscatiello, RTDA



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Alessandro Galasso, PhDs



Riccardo Loggia, PhDs

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