PROJECT

PRO-ENERGY – PROMOTING ENERGY EFFICIENCY IN PUBLIC BUILDINGS OF THE BALKAN MEDITERRANEAN TERRITORY

Work Package:	5. Pilot actions & Sustainability
Activity:	5.2. Integrated cloud-based joint ICT platform
Activity Leader:	Region of Epirus – Regional Unit of Thesprotia
Deliverable:	D5.1.2 Integrated cloud-based joint ICT platform

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Responsible Partner:	Region of Epirus – Regional Unit of Thesprotia		
Editor:	TREK Development		


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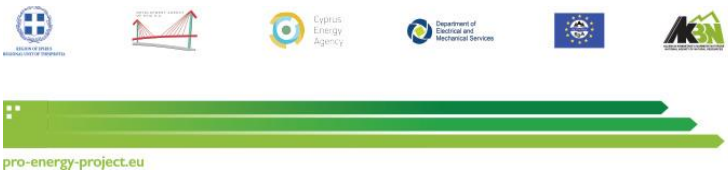
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CONTENTS

IDENTIFICATION SHEET

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Project Acronym	PRO-ENERGY
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Responsible partner	Region of Epirus – Regional Unit of Thesprotia
Editor	TREK Development

1. Introduction

PRO-ENERGY is a transnational cooperation project, co-financed by the Cooperation Programme "Interreg V-B Balkan Mediterranean 2014-2020", under Priority Axis 2, Specific Objective 2.2 Sustainable Territories. The project aims at promoting Energy Efficiency in public buildings in the Balkan Mediterranean territory and to create a practical framework of modelling and implementing energy investments interventions, through specific ICT monitoring and control systems, as well as through energy performance contracting (EPC). The specific objective of PRO-ENERGY is to reduce by more than 20% the energy spending in public buildings of the participating entities in one year after the implementation of pilot actions.

Based on the above, Work Package 5 (WP 5) "Pilot actions & Sustainability" includes the implementation of pilot actions designed & specified in the Joint Strategy (WP3) & the drafting of a follow-up plan for sustainability of results (pilot actions, trainings) & its consultation with stakeholders. Three types of pilot actions are foreseen:

1) Design & development of an open-source Joint ICT Platform,
2) The design & development of the Joint Cost-Benefit Analysis Modeller (open to all) &
3)The joint preparation of Energy Performance Contracts (open tendering). Pilot actions will valorise results (open to all) of WP3 energy audits on selected buildings.

One public building per area involved will be equipped with smart sensor systems. An integrated cloud-based joint ICT platform will measure & analyse energy consumed at any given period of the day from different sources. Then all data & measurements (available to the wide public) will be integrated & analysed, using specially designed ICT tools, algorithms, data analytics & statistical methods, thus producing the energy consumption profile of each building.

The Activity 5.2 "Integrated cloud-based joint ICT platform" aims at the design & development of an open-source Joint ICT Platform which will guide energy consumers behaviour to energy saving actions contributing to the achievement of 20% reduced energy spending in pilot buildings & to increased energy efficiency.

1.1. Purpose

The present document provides the user guide which was created for the management and use of the integrated ICT platform in order for its administrators to be trained. The Region of Epirus – Regional Unit of Thesprotia was responsible for the design and the development of the ICT platform, thus responsible for the conduction of a manual/guide upon the completion of the platform.

In the following pages of the present document, instructions for the management and use of the ICT platform are provided.

2. User Guide


PRO-
ENERGY
Promoting Energy Efficiency in Public Buildings of the Balkan Mediterranean Territory
Web App
Interreg
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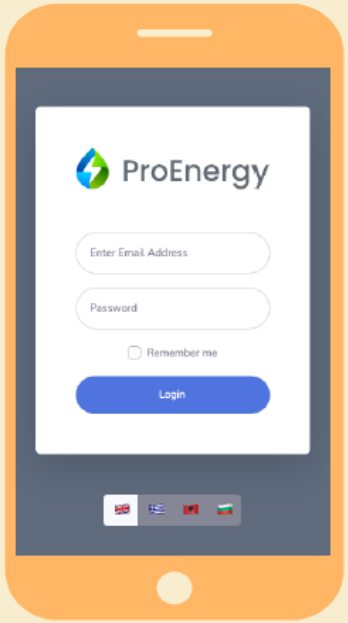
PRO-ENERGY


Web App v1.0
This presentation should provide you a basic understanding of the pro-energy web application.

Table of Contents



Login

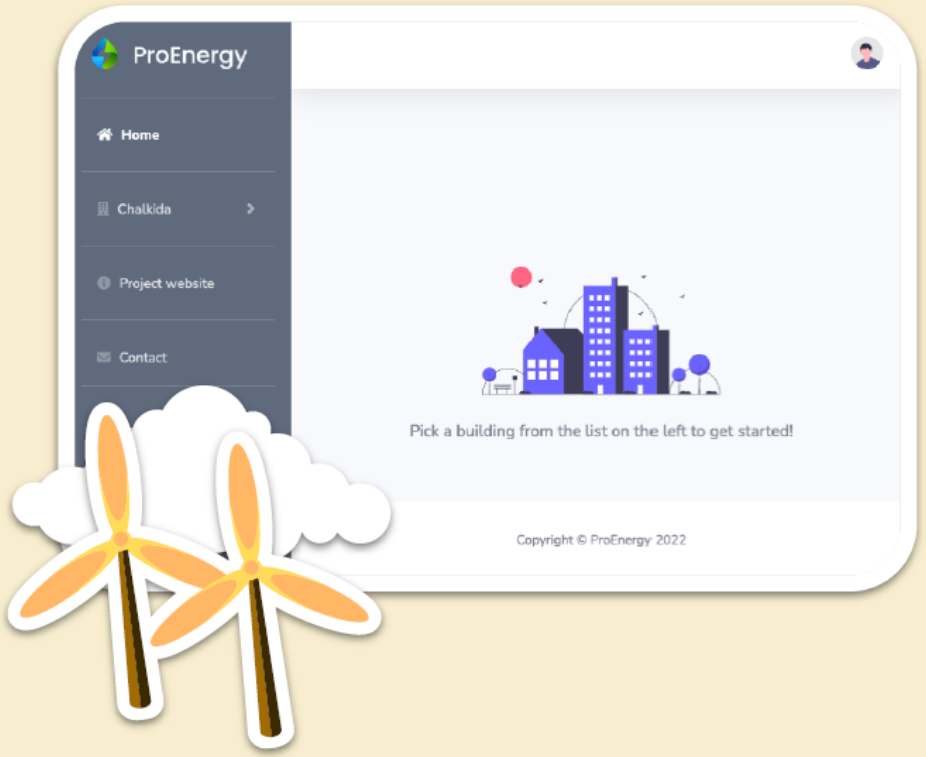
The web app is accessible via https://platform.pro-energy-project.eu/login

The user is asked to provide their unique credentials, i.e. their email address and password used in their registration.

Navigation

Users can navigate trough the sidebar, displayed at the left section of the screen.

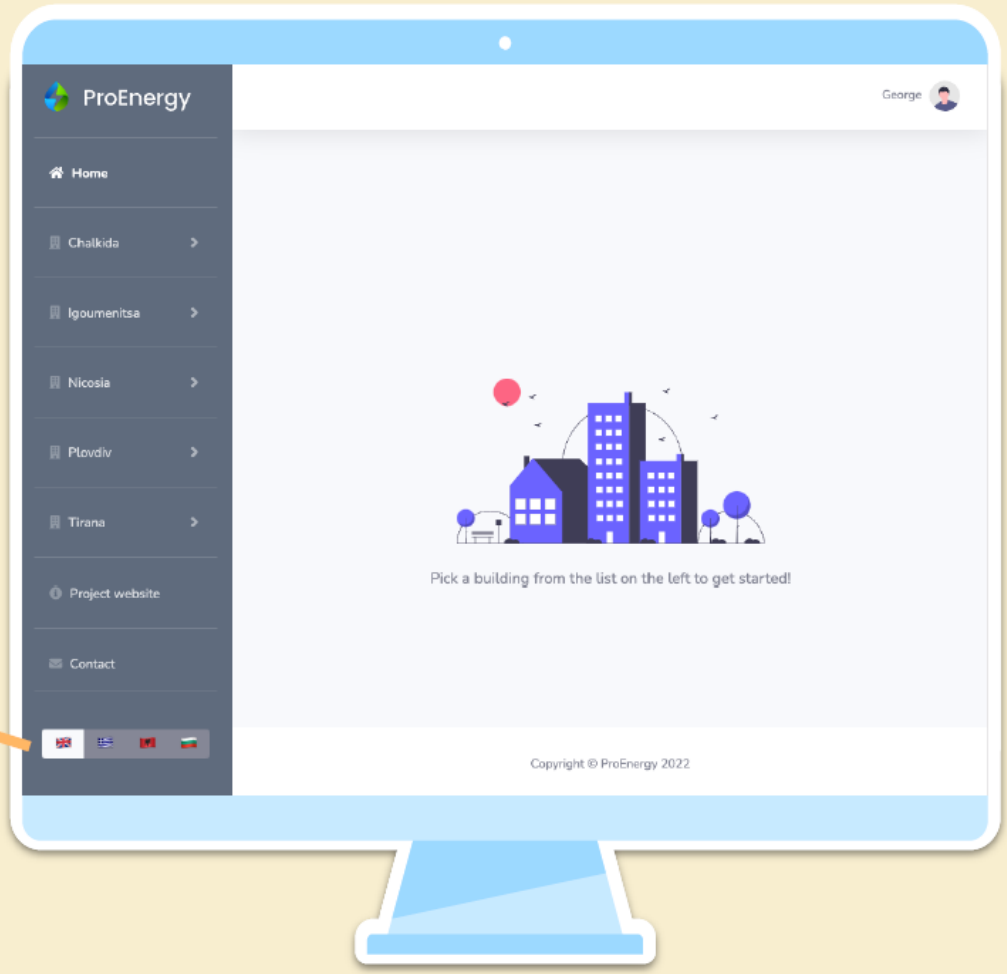
Sidebars are a staple of web apps navigation. They are convenient to users and ensure that certain page elements are always in view.



Localization

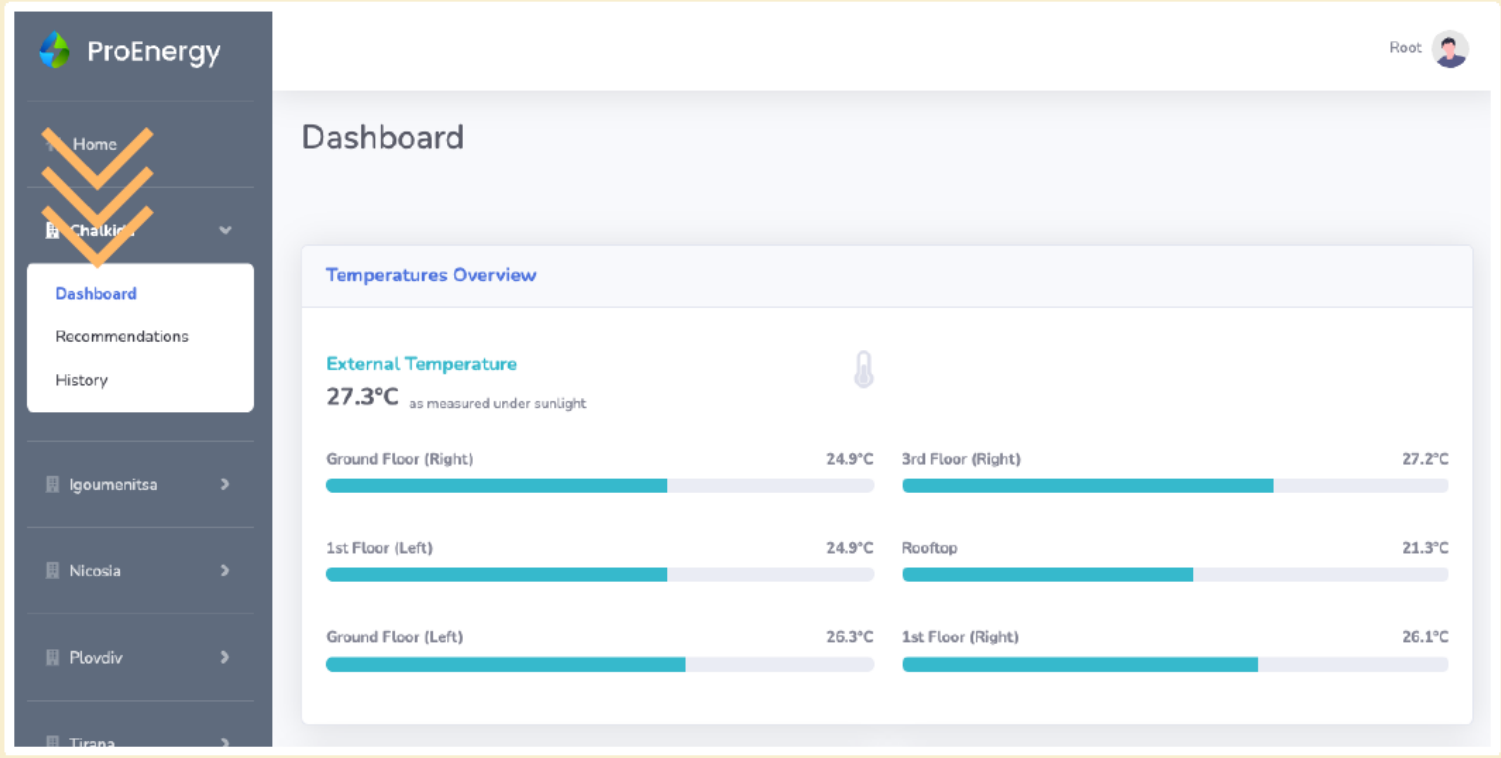
The app supports multiple languages (Albanian, Bulgarian, English & Greek).

A user can alter the app language by clicking on the respective flag.



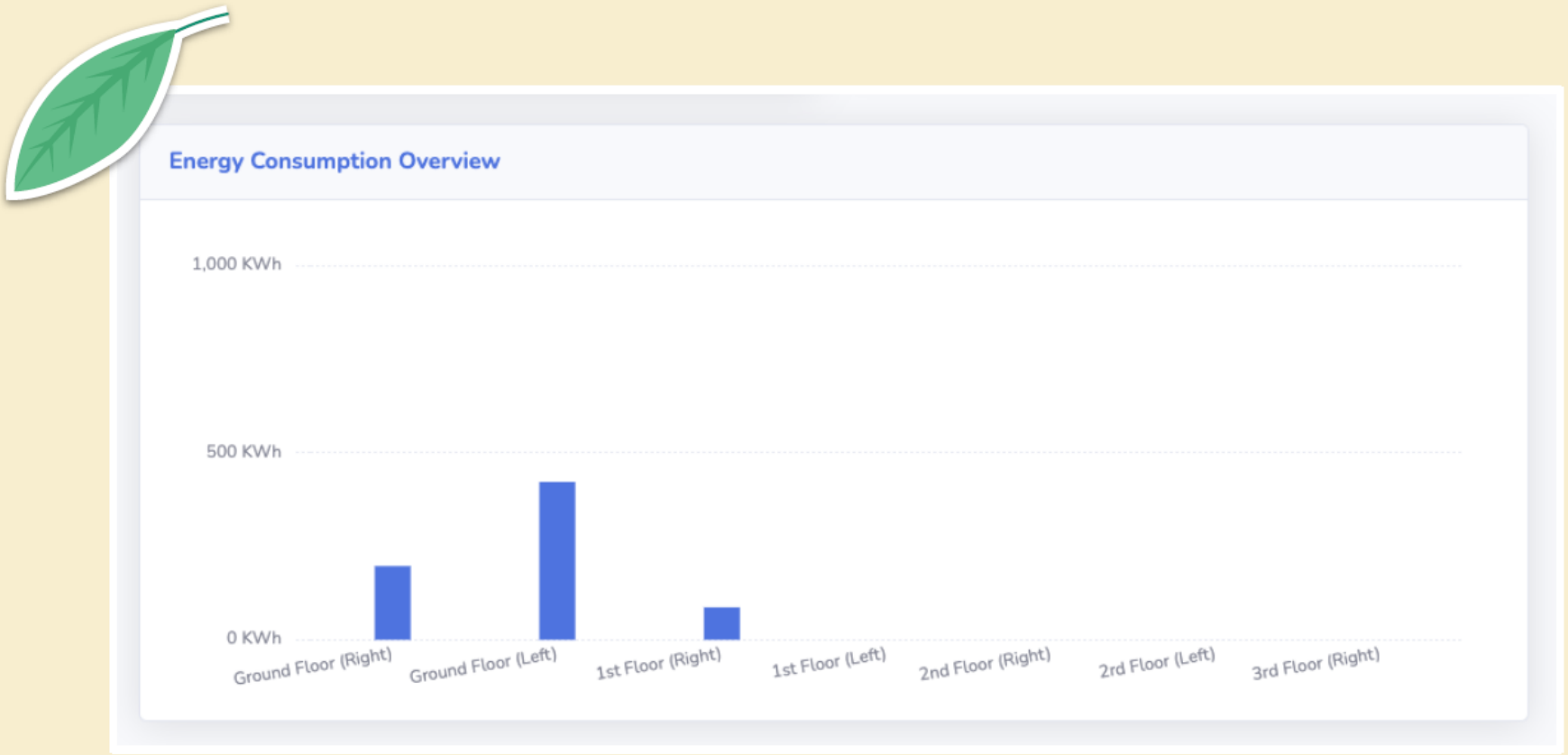

The pro-energy web app can be viewed using many different devices, such as desktops, tablets, and phones.
Responsive Design


Building Views
Dashboard
Monitoring the energy & other needs in buildings efficiently & intelligently.
Recommendations
Providing suggestions based on the analysis of the gathered data.
History
Historical data depicting the energy usage footprint over time.

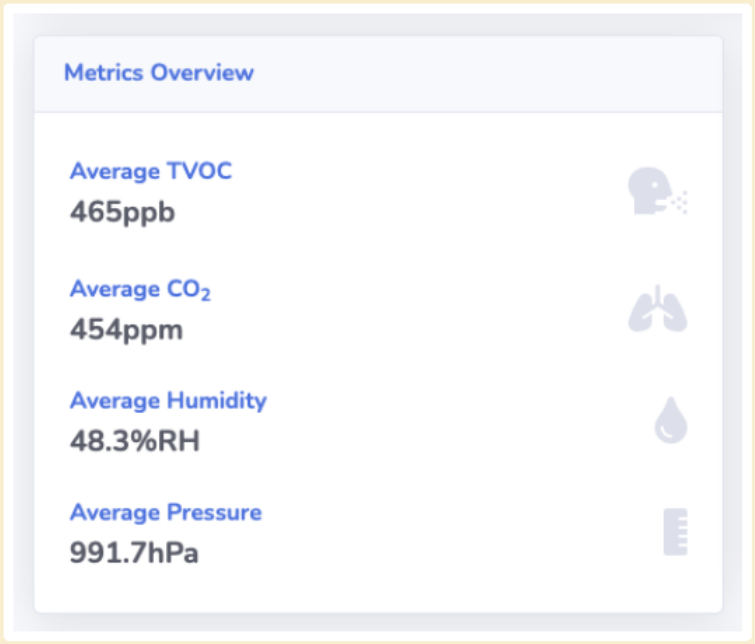


Dashboard

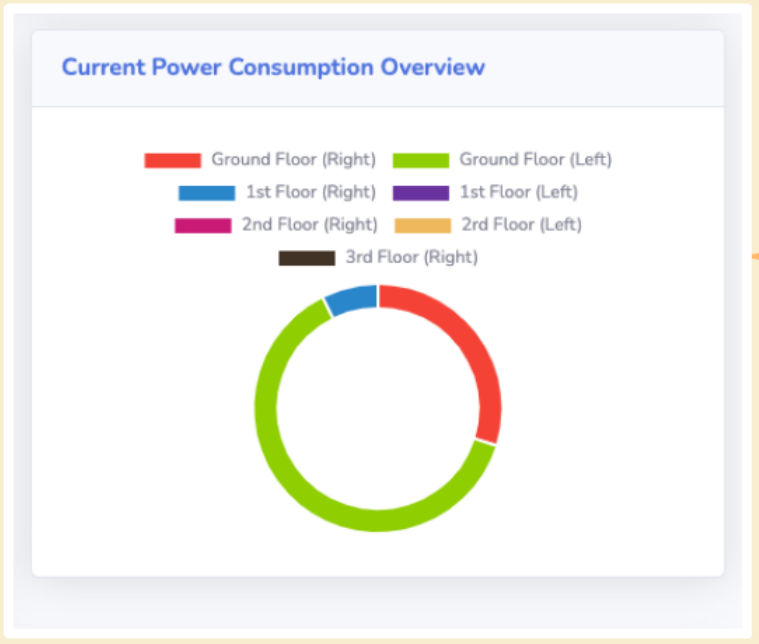
Presents multiple high-level metrics, useful for optimizing energy efficiency & productivity.



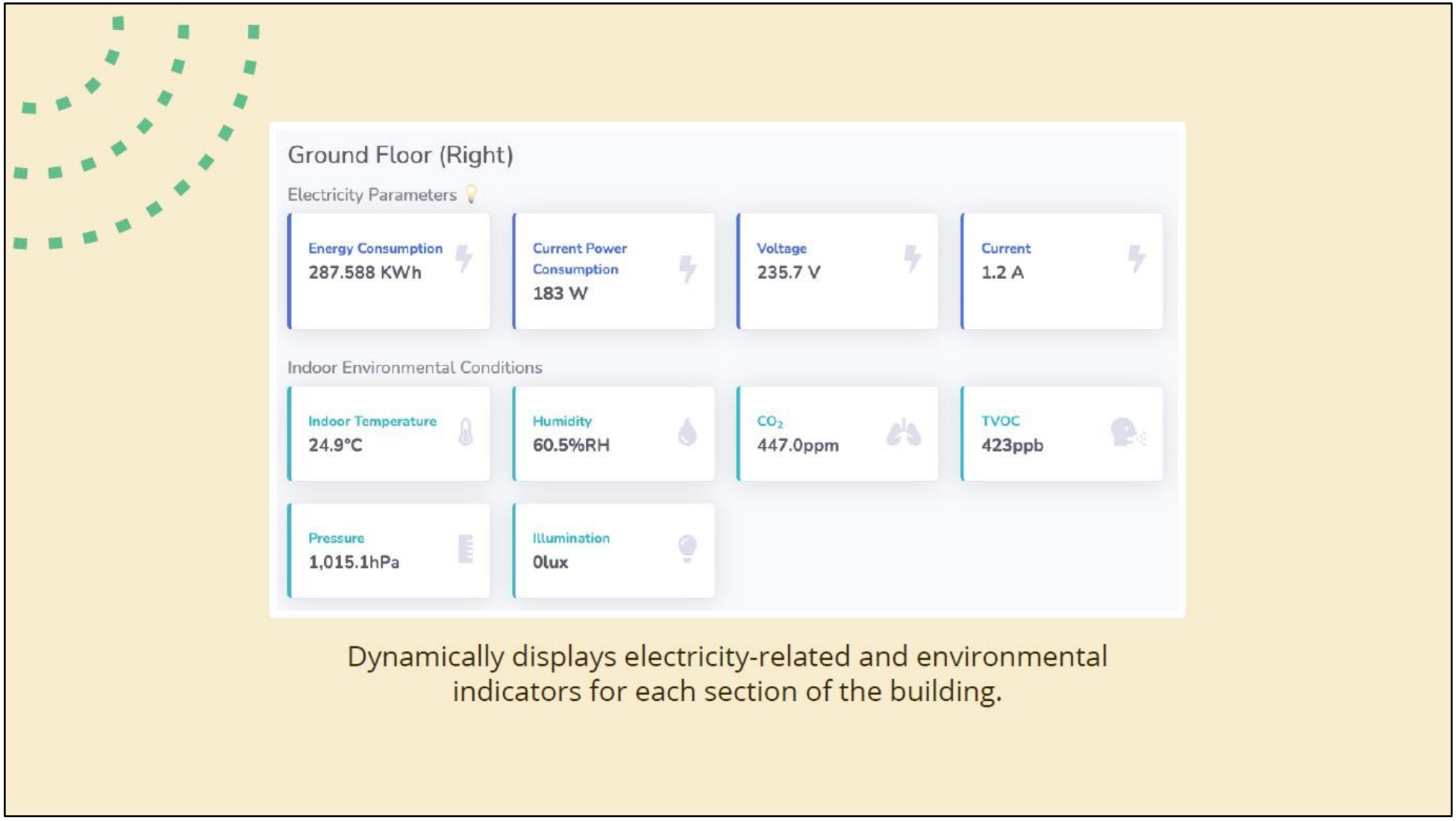
The average measurements of total volatile organic compounds, carbon dioxide, humidity and pressure within the building



The average measurements of total volatile organic compounds, carbon dioxide, humidity and pressure within the building



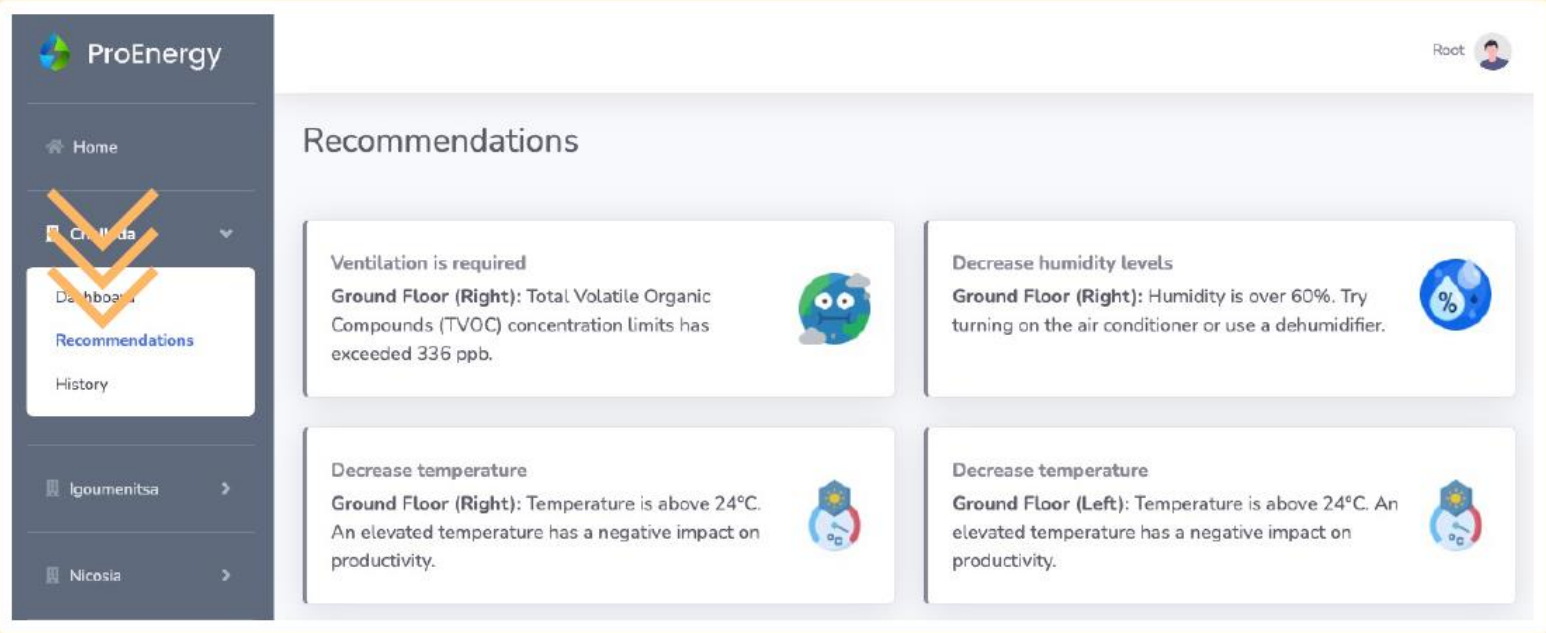
Depicts the rooms or sections of the building that currently consume most of the overall power

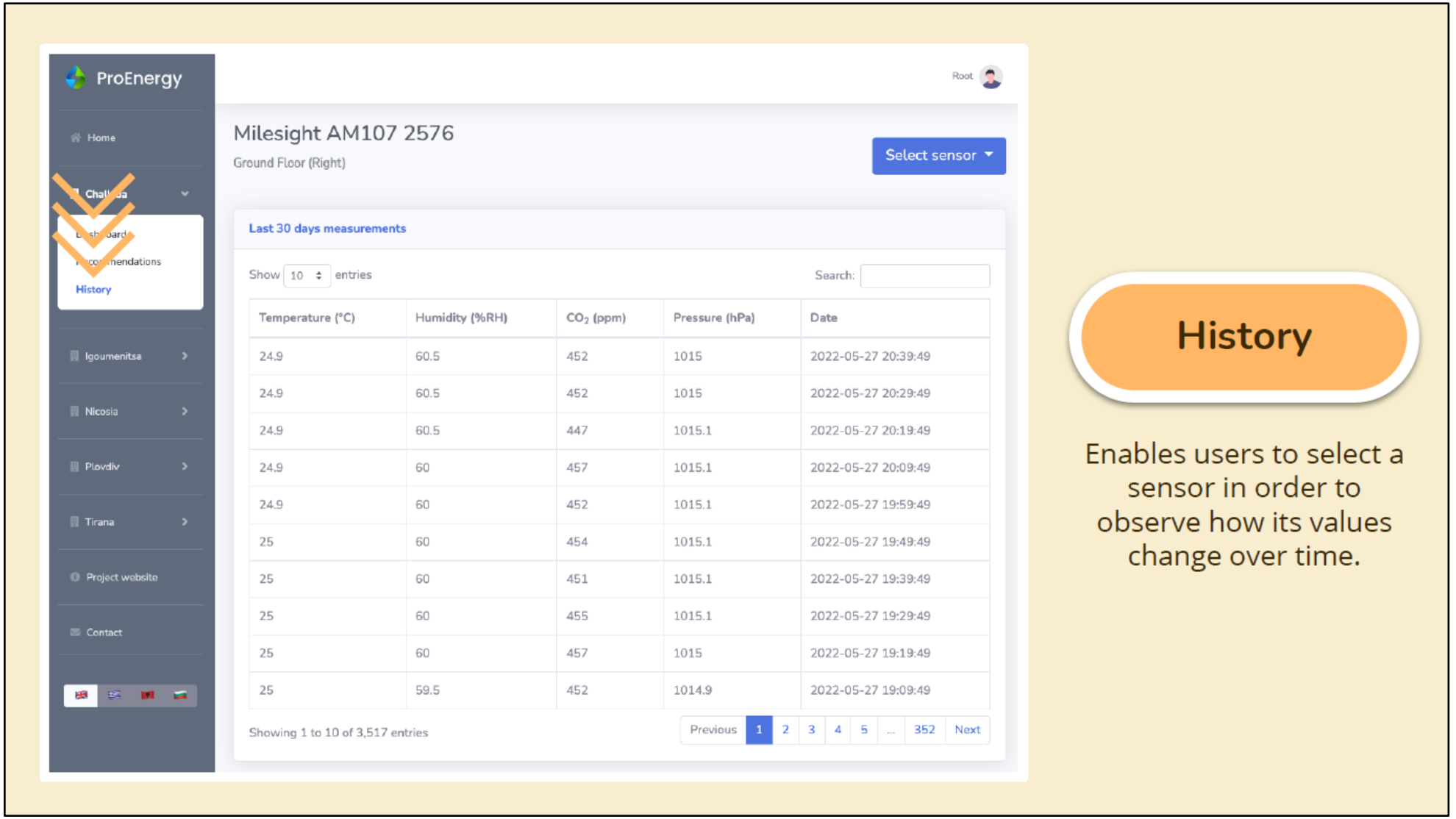


Dynamically displays electricity-related and environmental indicators for each section of the building.

Recommendations

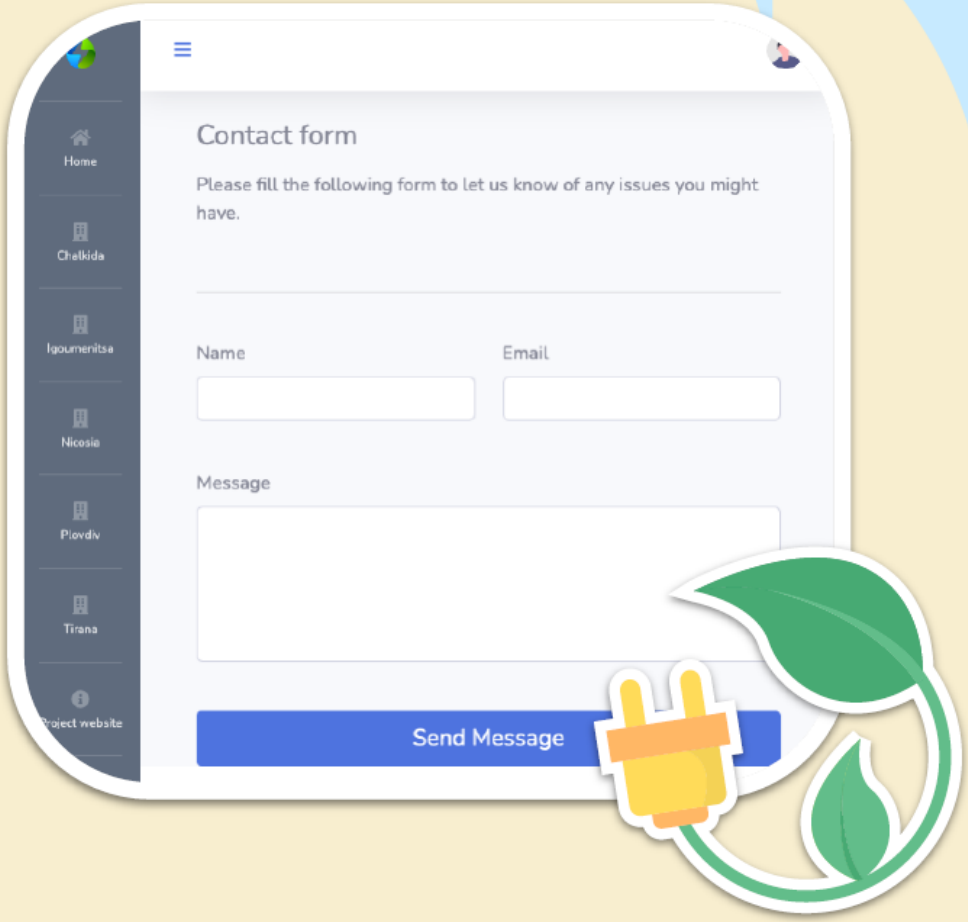
Displays real-time suggestions that derive from the raw data received from the building's sensors.




ProEnergy
Root
Home
Milesight AM107 2576
Ground Floor (Right)
Select sensor
History
Igoumenitsa
Nicosia
Plovdiv
Tirana
Project website
Contact
Last 30 days measurements
Show 10 entries
Search:
Temperature (°C) | Humidity (%RH) | CO2 (ppm) | Pressure (hPa) | Date
24.9 | 60.5 | 452 | 1015 | 2022-05-27 20:39:49
24.9 | 60.5 | 452 | 1015 | 2022-05-27 20:29:49
24.9 | 60.5 | 447 | 1015.1 | 2022-05-27 20:19:49
24.9 | 60 | 457 | 1015.1 | 2022-05-27 20:09:49
24.9 | 60 | 452 | 1015.1 | 2022-05-27 19:59:49
25 | 60 | 454 | 1015.1 | 2022-05-27 19:49:49
25 | 60 | 451 | 1015.1 | 2022-05-27 19:39:49
25 | 60 | 455 | 1015.1 | 2022-05-27 19:29:49
25 | 60 | 457 | 1015 | 2022-05-27 19:19:49
25 | 59.5 | 452 | 1014.9 | 2022-05-27 19:09:49
Showing 1 to 10 of 3,517 entries
Previous 1 2 3 4 5 ... 352 Next
History
Enables users to select a sensor in order to observe how its values change over time.

Contact form

A user can provide feedback or just choose to communicate with the system administrators via the respective contact form that is available via the app sidebar.



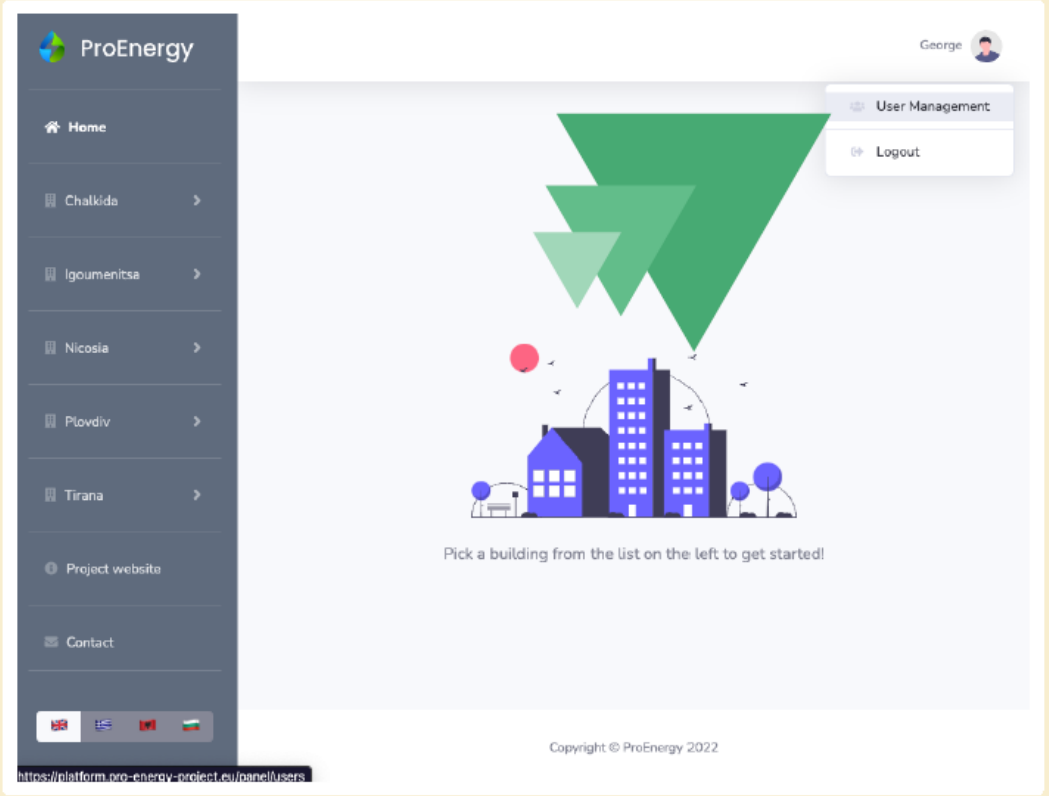
User Levels

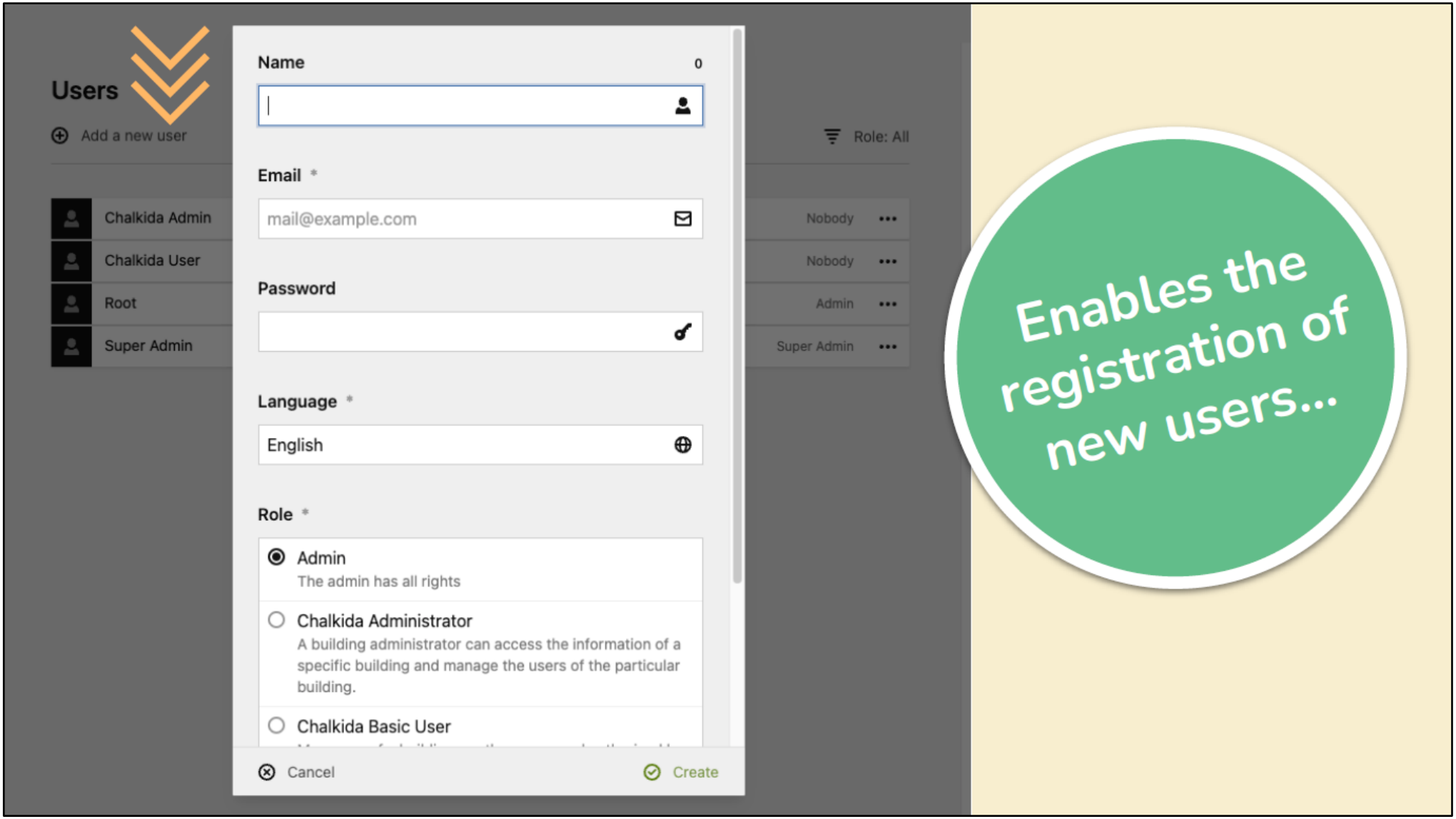
The pro-energy web application supports the following user levels:

1. **Super Admins:** system administrators who can access all buildings information and manage all users registered in the system.
2. **Building Admins:** project partners who can access the information of a specific building and manage the users of the particular building.
3. **Basic Users:** managers of a building or other personnel authorized by the project partners; all these can only access information of a specific building.

User Management

This panel is available for the first two user levels, i.e. the super admins & building admins.




Users
Add a new user
Role: All
Chalkida Admin
Chalkida User
Root
Super Admin
Nobody
Nobody
Admin
Super Admin
Name
0
Email *
mail@example.com
Password
Language *
English
Role *
Admin
The admin has all rights
Chalkida Administrator
A building administrator can access the information of a specific building and manage the users of the particular building.
Chalkida Basic User
Cancel
Create
Enables the registration of new users...

...plus a few User Management Actions

Update name, email & password

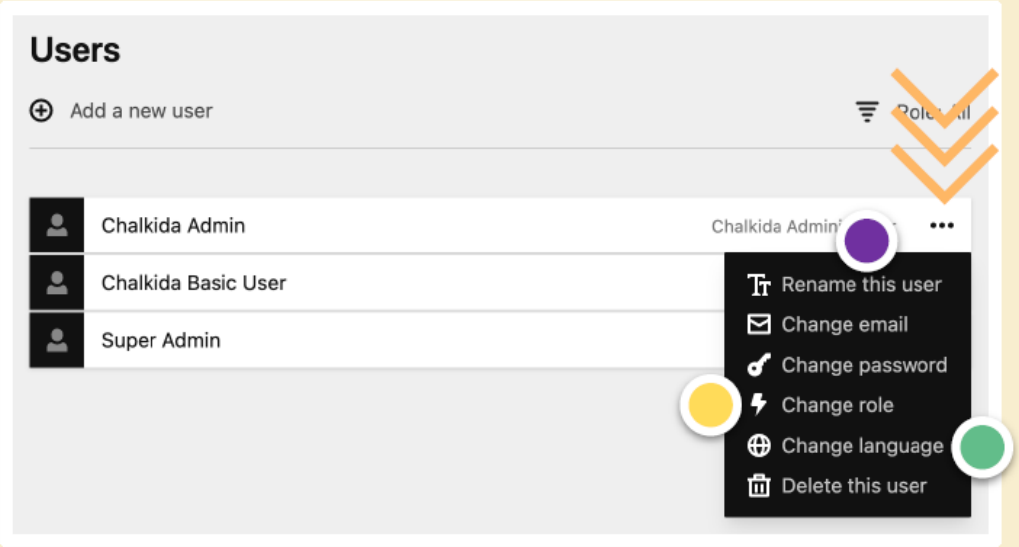
Alter the user's name & login credentials

Change role

Select among super admin, building admin & basic user

Change language

Set the default language of the user

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