



SOLE

High energy efficiency for the public stock buildings in Mediterranean

INTERREG SUDOE IMPROVEMENT FINAL EVENT

Seville

07 March 2023

Project partners



Associated partners



Our objectives

The main objective of SOLE is to develop **joint strategies** supporting cost-effective and innovative energy rehabilitations of the public buildings.

To promote technical knowledge sharing and **capacity building for behavioural change** for improved energy performance of public buildings

To implement solutions of **cost-effective technologies for energy efficiency and renewable energy of public buildings** on a pilot basis

To develop local and **joint policy recommendations** for energy renovations of public buildings, easily replicable in other Mediterranean areas

Who we are

10 PARTNERS – 7 MED COUNTRIES – 5 EU & 5 MPC PARTNERS

LP - National Association of Italian Municipalities Tuscany (Italy)

PP1 - Regional Agency Resource Recovery (Italy)

PP2 - National Technical University of Athens (Greece)

PP3- Federation of Egyptian Chambers of Commerce – Alexandria Chamber (Egypt)

PP4 - Confederation of Egyptian European Business Associations (Egypt)

PP5 - Royal Scientific Society/National Energy Research Center (Jordan)

PP6 - Municipality of Jounieh (Lebanon)

PP7 - Andalusian Energy Agency (Spain)

PP8 - National Federation of Tunisian Municipalities (Tunisia)

PP9 – Municipality of Mnihla (Tunisia)

PP10 – Municipality of Prato (Italy)

2 ASSOCIATED PARTNERS

Tuscany Region (Italy)

Ministry of Education (Jordan)

Who we are

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Number of the project

- **10** PARTNERS
- **2** ASSOCIATED PARTNERS
- **7** PILOTS
- **7** COUNTRIES INVOLVED IN ACT GREEN CAMPAIGN (10 energy saving tips for building's users)
- **+400** SCHOLARS INVOLVED IN ENVIRONMENTAL EDUCATIONAL INITIATIVES

FINANCIAL DATA

€

3.6 million

Total budget

€

3.2 million

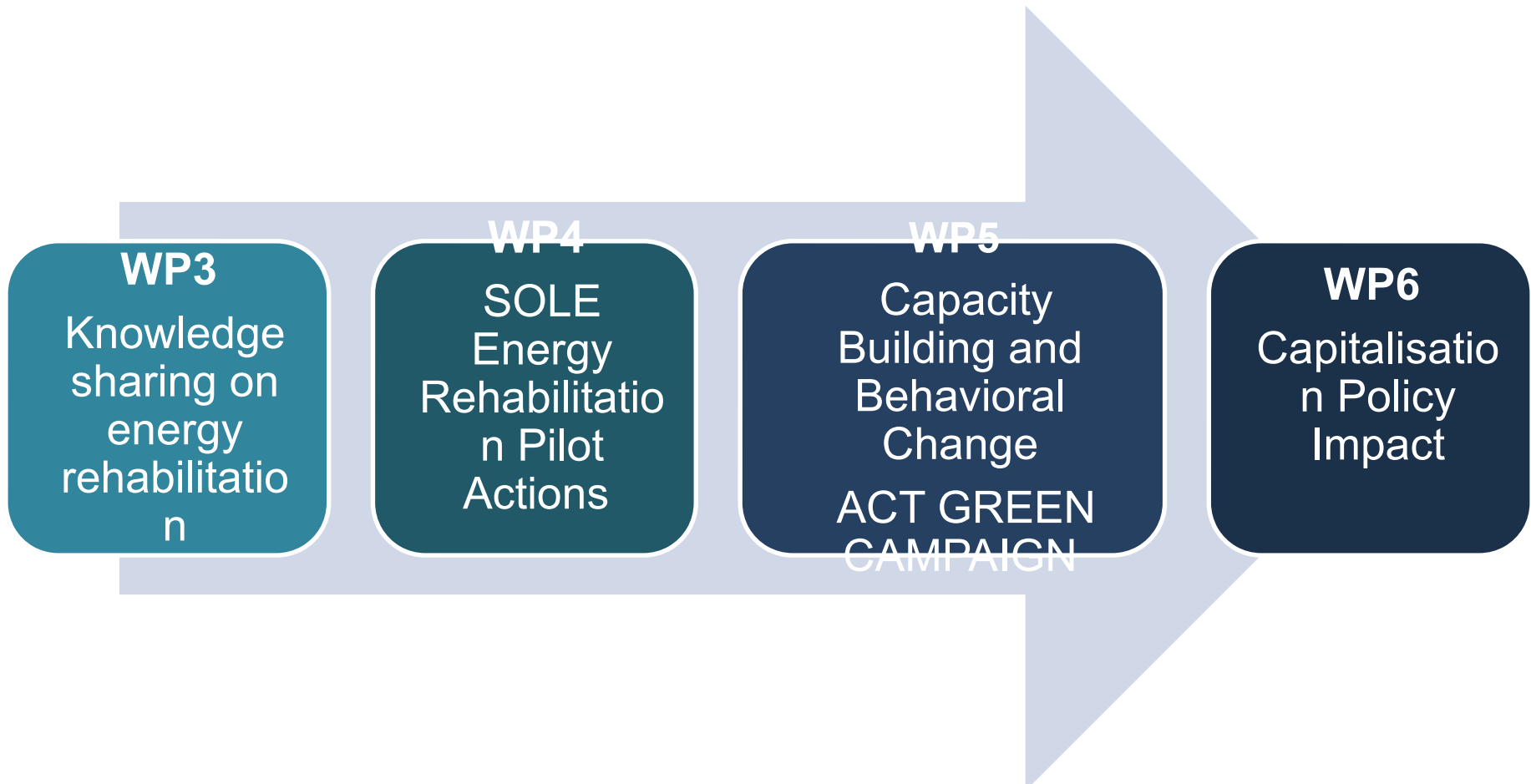
EU contribution

%

10%

Project co-financing

Project approach



Expected results

- Increased proportion of **renewable sources** in the energy mix by c.a 300.000 kWh
- **Reduced emissions** from PBs by c.a 130 tons CO₂/year
- **7 pilot actions** implemented to rehabilitate public buildings
- **1 cross border policy recommendations**
- **Economic savings** due to reduced energy consumption
- Impact on **job creation**



What we have done

Energy rehabilitation of 7 public buildings

Stadium of Jounieh –
JOUNIEH (LEBANON)



Mnhila Municipality
Building – MNHILA
(TUNISIA)



Public Primary School –
MADABA (JORDAN)



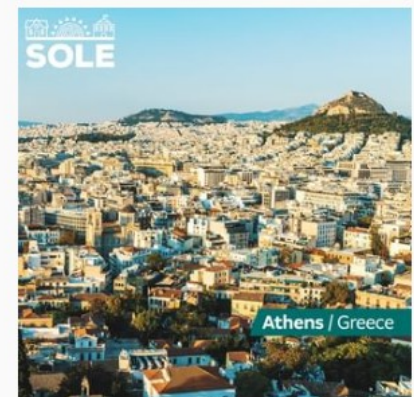
Kindergarden “Borgo San
Paolo” – PRATO (ITALY)



Faculty of Engineering
Alexandria University –
ALEXANDRIA (EGYPT)



Headquarter of the AEE–
SEVILLE (SPAIN)



School of Architecture
University of Athens –
ATHENS (GREECE)

What we have done

Energy
rehabilitation of
Iskan Faiha'
primary mixed
School
Madaba
(Jordan)

**BEFORE SOLE
PROJECT**

Students
Uncomfortable
in cold weather



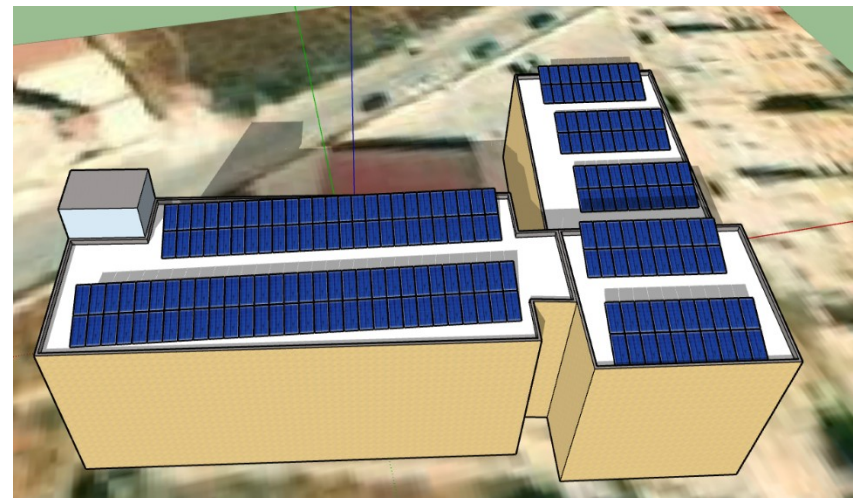


What we have done

Energy rehabilitation of Iskan Faiha' primary mixed School Madaba (Jordan)

ACTION ON BUILDING

1. Lighting system Retrofit
2. Installing thermal insulation for external walls and roofs, double glaze with PVC frame
3. Install Heating and cooling systems
4. Domestic Solar hot water System
5. Photovoltaic System



What we have done

Energy rehabilitation of Iskan Faiha' primary mixed School Madaba (Jordan)



AFTER SOLE PROJECT

**84 tons of CO2-equivalent
emissions reduction per year**



What we have done

ACT GREEN CAMPAIGN



The **ACT GREEN awareness campaign** is **launched**
in all partners countries



GOAL: Reduce building energy consumption by
promoting behavioral change in building's **staff and**



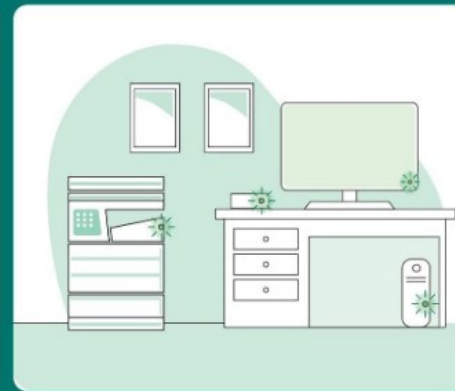
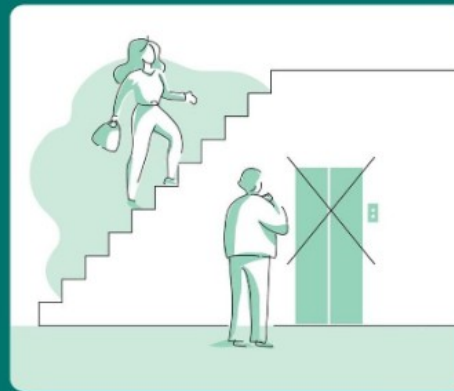
GOAL: Capacity Building pack with
tools, useful to create a successful and **effective**
mass raising campaign

What we have done



A campaign to implement energy-saving measures
at work: reduce energy consumption, lower carbon
emissions and help combat climate change!

EASY TIPS THAT EVERYONE CAN FOLLOW.



What we have done

TOOL for ACT GREEN CAMPAIGN


- Video (ITA, ENG, soon available in Arabic)
<https://www.youtube.com/watch?v=rTYIxxjGGIzE>
- Posters (ITA, ENG, FRA, ARAB)
- Guidelines for application of ACT GREEN CAMPAIGN

What we have done

ENI CBCMED
EUROPEAN UNION
REGIONE AUTONOMA DE SARDEGNA
REGIONE AUTONOMA DELLA SARDEGNA

SOLE ACT GREEN

MORE STAIRS, LESS LIFT



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SOLE ACT GREEN

USE A MULTIPLE POWER SOCKET WITH SWITCH



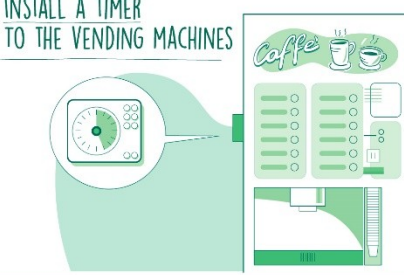
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SOLE ACT GREEN

INSTALL A TIMER TO THE VENDING MACHINES



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SOLE ACT GREEN

PLACE THE DESKS NEAR THE WINDOWS




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SOLE ACT GREEN

PAY ATTENTION TO THE THERMOSTAT DURING SUMMER




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SOLE ACT GREEN

PAMPER YOURSELF WITH A SWEATER AND TURN DOWN THE RADIATOR!



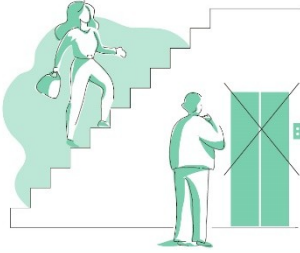
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What we have done



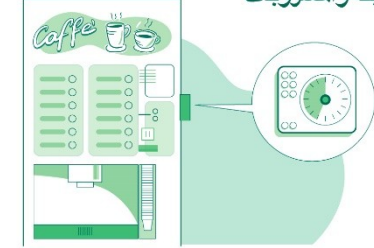
استخدم الدرج أكثر من استخدام المصعد



استخدم مقبس طاقة متعدد مع مفتاح



قم بتثبيت جهاز مؤقت لآلات بيع الوجبات الخفيفة والمشروبات



ضع المكاتب بالقرب من النوافذ



راقب منظم الحرارة خلال الصيف



استمتع بلباس سترة واعمل على خفض درجة حرارة المدفأة أو السخان



What we have done

TOOL for ACT GREEN CAMPAIGN

In addition to the guidelines for partners (to be used for the implementation of the Awareness Raising Campaign in the pilot buildings), Sole makes available a **package for external companies** who wish to organize their own campaign for their workers / visitors.

You can download it

<https://www.enicbcmmed.eu/projects/sole>

Library section

What we have done

ACT GREEN CAMPAIGN For Kindergarten School: a garden in a box to celebrate sustainable energy and cities

ANCI, ARRR and Municipality of Prato– Kindergarten Schools of Municipality of Prato



What we have done

ACT GREEN CAMPAIGN For Primary School: Energy conscious against energy wasters
ARRR – Primary Schools of Municipality of Prato



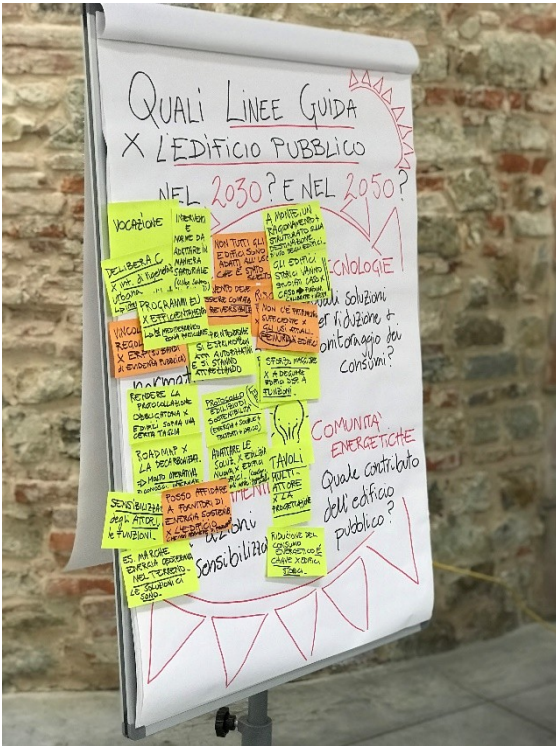
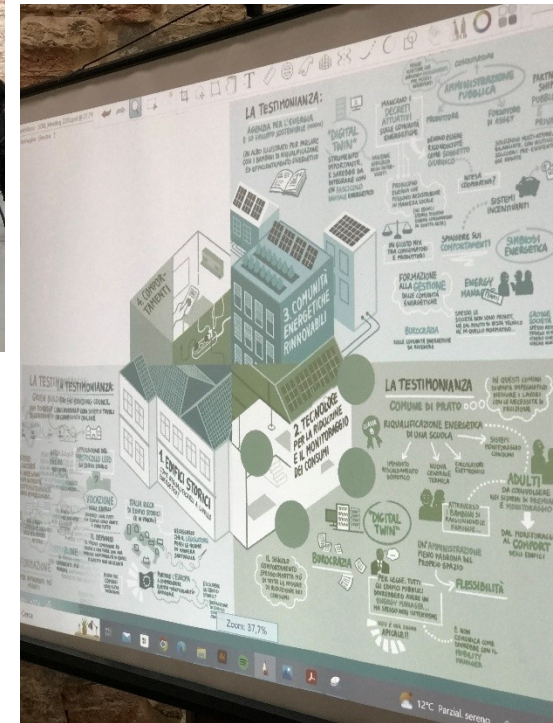
What we have done

Working groups of policy-makers from different Mediterranean to find common actions to live more sustainably



What we have done

SOLE Energy Talks [Florence, 22/02/2023 – 24/03/2023]: Stakeholders working group
ANCI Toscana – ARRR



FIND OUT MORE



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<https://www.enicbcmed.eu/projects/sole>



Thanks for your attention!

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