

Energy efficiency in 40 Schools Supports Community

E(40)SCO SARDINIA

" Education and awareness-raising activities towards the school population (students, teachers and their families) are fully part of the project"



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The European Islands Facility NESOI aims to unlock the potential of EU islands to become the locomotives of European Energy Transition. To do so, NESOI aims to mobilize more than €100 Million of investment in sustainable energy projects to give EU islands the opportunity to implement energy technologies and innovative approaches, in a cost-competitive way. NESOI has selected 56 such projects across the European Union and *j* provide them with financial resources and technical support.



- Assessment on existing studies on economic and financial sustainability
- Regulatory/legal analysis and assessment of existing procurement options (e.g. tender, PPP, etc.), with particular focus on the possibility to combine EPC and energy communities
- Completion of technical and administrative documents for public tender procedure
- 5 Support in contract signing (EPC)
- Guidelines to create of energy communities around each school buildings

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Energy efficiency in 40 Schools Supports Community – Technical Data

FOCUS ON ENERGY COMMUNITIES AND SCHOOLS

Schools and kindergartens due to their dense population, consume a high amount of fossil fuels to satisfy their energy needs.

Through renewal of technological systems, construction of photovoltaic generators sized to obtain substantial energy autonomy, inclusion of building automation for intelligent management, consumption monitoring and remote control of technological system, a significant reduction in using of fossil fuels in school buildings can be achieved.

Within the E(40)Sco project, the carbon emission reduction potential is estimated at 442 tons, by using renewable energies instead of fossil fuels.

The objectives of the program are:

1- Reduction of fossil fuels in public buildings and mitigation of environmental impact through the reduction of greenhouse gases

2- Test the creation of energy communities around each school building

- 3- Improve methods of negotiation in public-private partnership
- 4- Citizens involvement in energy efficiency and transition



Schematic representation of public building (schools) role in local energy community systems

(Icons by FREEPIK, design by NESOI)



REPLICABILITY IN OTHER ISLANDS

KEY NUMBERS

OF THE PROIECT

(The project is easily scalable and replicable in other territorial areas. Its size has been defined in a pilot project logic, such that it can be extended (expansion of the number of buildings, extension of used technologies) both in foreseen local location , and expanded in other administrative areas (union of municipalities, metropolitan areas, etc). that because its characteristics are not influenced by local geomorphological, technical or economic contexts.



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