

ELIAT

SMART CITY



BACKGROUND

- 65,000 Residents
- Leading tourist city in Israel
- Port City
- Academic City
- World Center of Marine Biotechnology
- Most Northern Coral-Reefs

The Vision Energy Independence and 100% Electricity Production from Renewable Sources

100%

TO(DAY) \ VISION

Energy Independence through
Renewable Sources

The Vision Energy Independence and 100% Electricity Production from Renewable Sources

GOALS

- Improve Quality of Life
- Savings in Expenses
- 100% Renewable Energy
- A Leading “Green City”
- Supporting climate change efforts
- New Job Opportunities
- Reducing Living Costs and supporting local economy

The Vision Energy Independence and 100% Electricity Production from Renewable Sources

ENERGY EFFICIENCY & RENEWABLE Public

- 65% increased efficiency in street lights
- 25% increased efficiency in municipal buildings.
- PV panels installations on roofs (5MGW)
- Net Zero Schools

The Vision Energy Independence and 100% Electricity Production from Renewable Sources



ENERGY EFFICIENCY & RENEWABLE Private

- House-Holds Energy Audits
- Action Plan
- Eilat -Solar



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EUROPEAN PROJECTS



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EUROPEAN COMMISSION FUNDED PROJECTS

- H2020 – “ RiskPacc “ 2021-2024
- H2020 – “ Procure “ 2021-2024
- H2020 – “ Leonardo “ 2021-2024
- ENI CBCMED – “ Berlin “ 2019-2022
- H2020 – “ Muse Grid “ 2019-2023
- H2020 – “ Project O “ 2018-2022
- SUDEP – Green Neighborhood
2015-17

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SUDEP GREEN NEIGHBORHOODS

Operated in Eilat at 2015-2017
The project had a great positive impact on the city through achieving the project goals and upscaling them and building the capacity to implement energy projects



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PROJECT O

Two pilots taking place In Eilat :

1. Aquaculture wastewater treatment.
2. Hospital wastewater monitoring and alert system.

- Eilat budget: 434,750 €
- Duration: 48 months

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MUSE GRID

The goal of this project, is to simulate the disconnection of the northern coastline from the electrical Grid.

Muse Grid is a part of a major program to disconnect Eilat the region from the power grid, so it will self supply its own energy by using renewable energy ONLY.

Eilat budget: 75000 €
Duration: 48 months



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50kW PV system



BERLIN

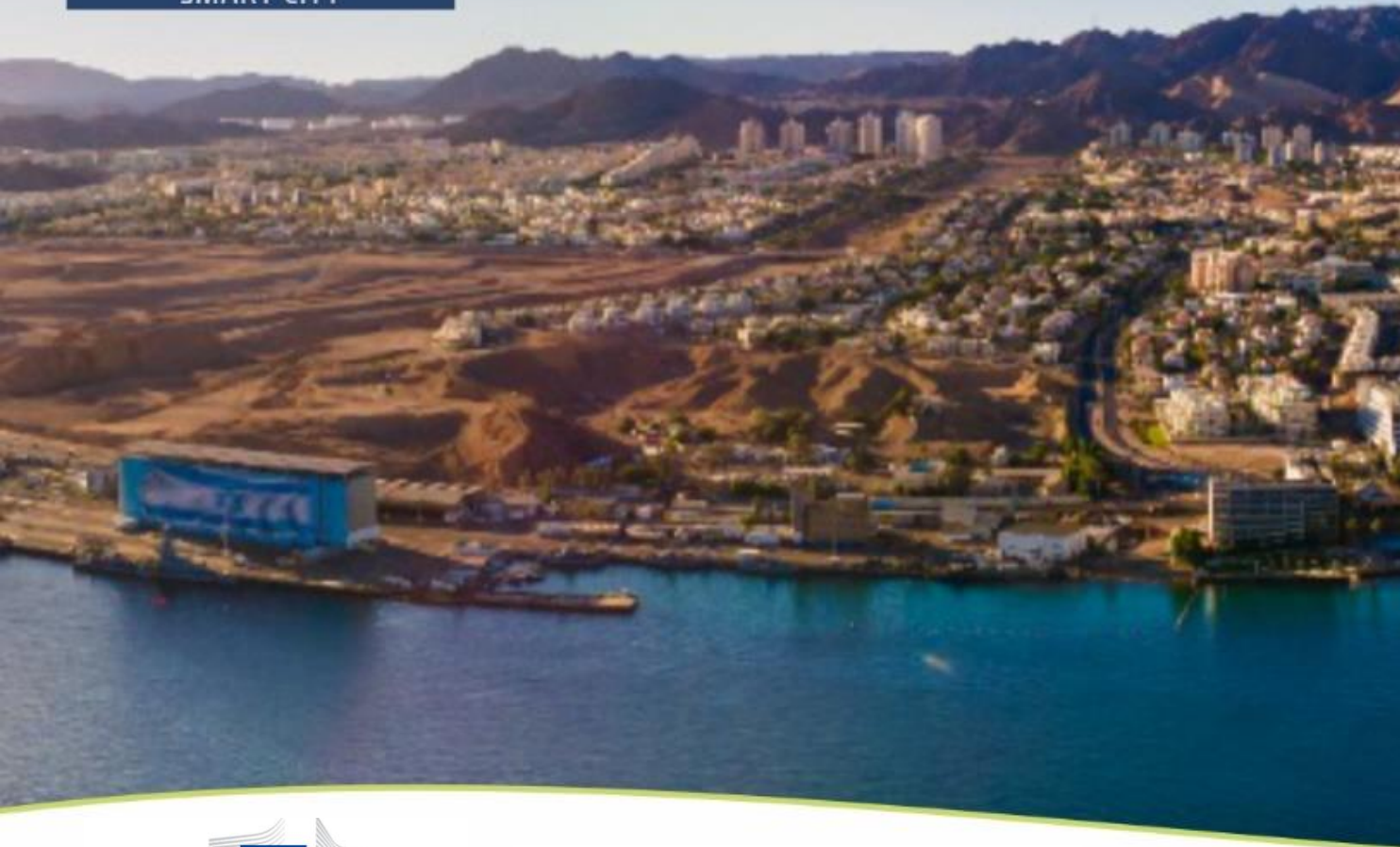
The goal of this project is to disconnect the school from the electrical grid, and build an energy system so it will self sustain by renewable energy only

Our Plan:

- Adding 190kW PV system on the court, Community center, and small classrooms
- Adapting the design of the roof using Bi-Facial panels to produce up to 30% more electricity
- **Implementing an storage system**
- Reducing energy use, by using real-time meters and **EMS systems**
- Eilat budget: 478,000€
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LEONARDO

- Traffic analysis in the city and implementation of micro-transportation
- The pilots will take place in Rome, Eilat, and two more cities yet been selected
- Eilat budget: 93,750 €
- Estimated implementation – February 2022



leonardo

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ProcuRE

Renovating an old building, including the outer shell of the building, windows, cooling systems, lighting system and more in order to fully offsetting the energy of the building. The technologies that will be used in the project are **pre-commercial technologies** witch will be installed for the first time.

Project budget: 9,848,812.50 €

Eilat budget: 1,504,125 €

Deductible: 167,125 €

Project duration: 48 months





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RISK PACC

This project is about developing a way to have full cooperation between civilians and authorities while a disaster occurs such as an earthquake.

Our approach to reaching the goals of the project is to make preparation plans and simulations so that every part of the city will be able to control its region when a disaster occurs.

Budget :110,000 €

Duration: 36 months



Thank you



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