



# COLLABORATIVE SOLAR ENERGY PUBLIC-PRIVATE PARTNERSHIP (PPP) EILAT SOLAR BONDS

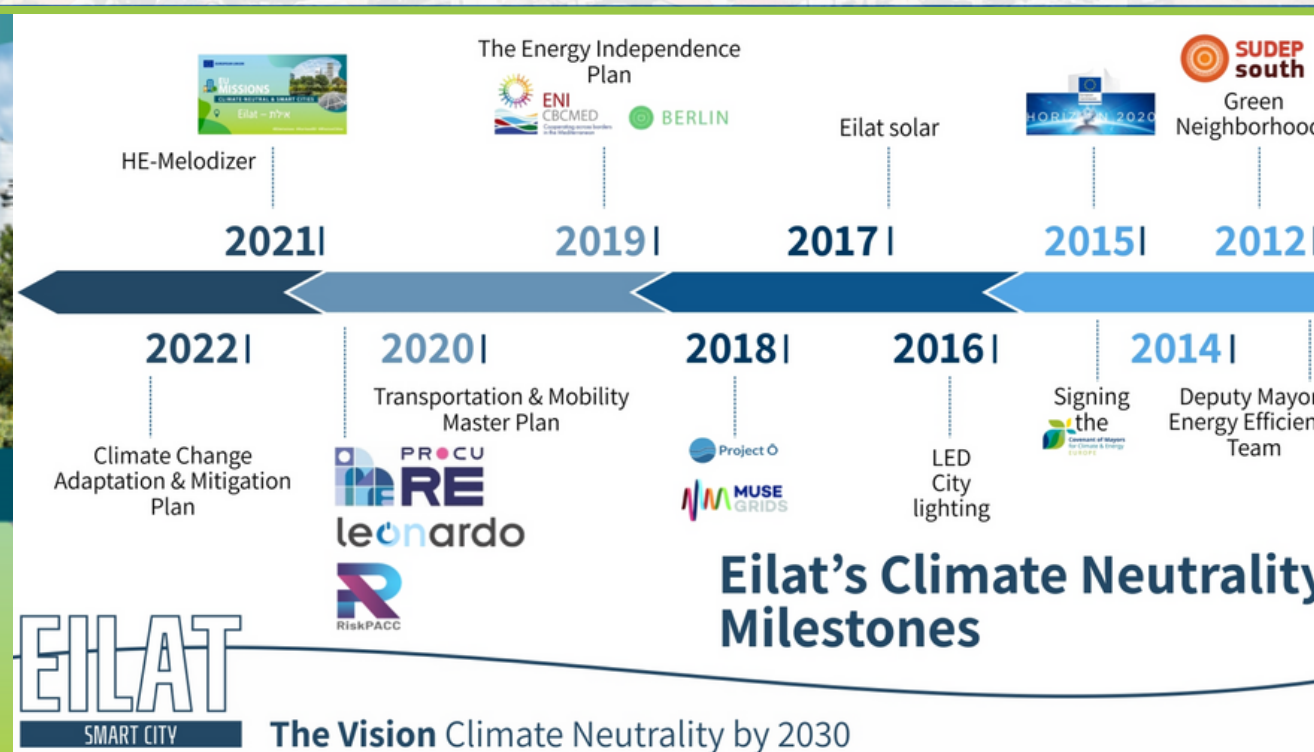
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# PREVIOUS EXPERIENCE IN EU R&D&I PROJECTS

- **procuRE** (HORIZON): Pre-commercial procurement of solutions for 100% renewable energy supply in buildings
- **LEONARDO** (HORIZON): Micro-Vehicle for stand-alone and shared mobility
- **RISKPACC** (HORIZON): Integrating Risk Perception and Action to enhance Civil protection-Citizen interaction
- **Project Ô** (HORIZON): Demonstration of integrated and symbiotic use of water
- **Muse Grids** (HORIZON): Demonstration of local energy grids interaction to reach local energy independence
- **BERLIN** (HORIZON): Testing innovative & cost-effective nanogrid energy rehabilitations
- **ECOSTEAM** (ERASMUS): Cooperation to improve ECOlogical behaviours through PBL and STEAM methodology
- **CULTUREROAD** (HORIZON): Leveraging participatory planning to more equitable CCAM deployment strategies
- **Tour Zero** (EU Missions): Showcasing accelerated decarbonisation in the tourism industry





# EILAT AND SOLAR ENERGY

- 100% of the city's daily consumption is from solar energy
- An energy independent school
- 15 public buildings producing 2,775 MGW per Year
- Energy-plus buildings

## Solar Panels as a Shading Infrastructure



Yeelim School, Energy Independent, Eilat

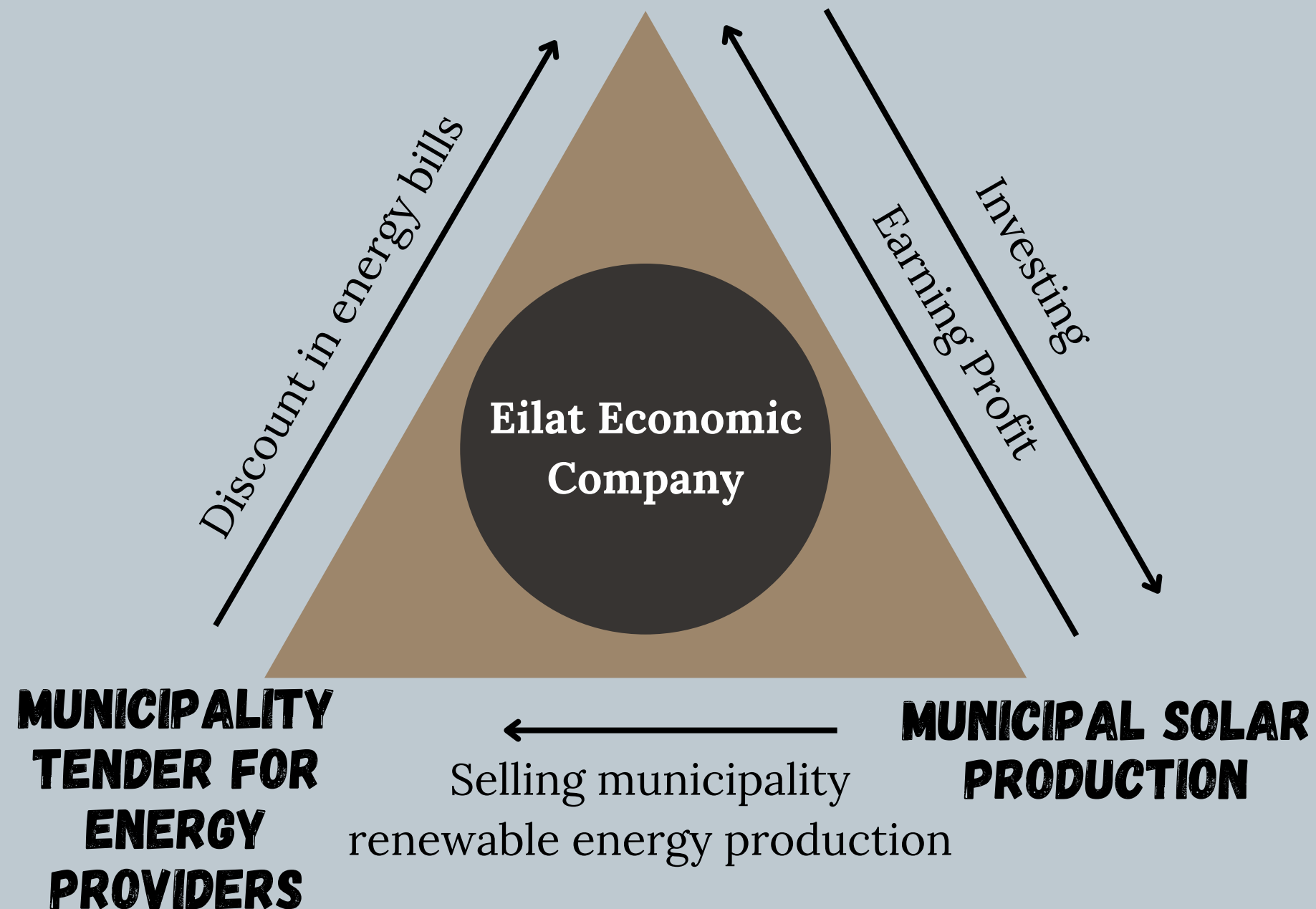
Solar Field in the Arava Region



# EILAT SOLAR BONDS

- **Goal:** to facilitate widespread access to renewable energy by fostering collaboration between citizens, electricity suppliers, PV producers and public stakeholders through the Economic Development Company, owned by the Municipality of Eilat. To validate the model's efficacy, we offer to develop a PPP solar field where residents can invest in micro-PV and earn profits.

## RESIDENTS AND CONSUMERS



- Showcasing an innovative business model that supports renewable energy projects while involving the community.
- Transforming 150 acres of land for renewable energy production. This will result in a significant output of 20,000 KW, taking advantage of approximately 1800 hours of annual sunlight and including a storage system of 400 megawatts.
- Reducing energy poverty by offering ownership of PV systems to 1000 residents.





# WHY JOINING OUR PROJECT?



- This PPP funding process will set an example with a public solution for lowering energy prices and an extra income for Eilat citizens and for other demonstration sites that would be involved.
- The project is currently progressing advancing at the local level. Our legal team is diligently working on establishing a statutory body to manage the PPP, ensuring its smooth operation and long-term success.
- The Eilat-Eilat environmental unit plays a crucial role of facilitator and connector, forging lasting local and international partnerships thanks to a highly skilled smart city team.
- Eilat municipality is committed to accelerating climate action, but further development is required to achieve the execution phase.





# WHAT ARE WE LOOKING FOR?

To apply to HORIZON Cluster 5 Energy calls

- Smart grid-ready buildings HORIZON-CL5-2024-D4-01-02
- Innovative, Community-Integrated PV systems HORIZON-CL5-2024-D3-02-06
- BIM-based processes and digital twins for facilitating and optimizing circular energy renovation (Built4People Partnership) HORIZON-CL5-2024-D4-02-03



To join a **consortium** to test our solution:

- Coordinator
- Research institutes specialized in renewable energy, citizen engagement, digital solutions.
- Energy suppliers and non-energy services as partners to support the design of the model using a participatory approach from an early stage.
- 3 other pilot cities - demonstration sites - for research results comparison and shared learning.







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**Thank you**

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