



ENERGY FOR LIFE

1000 kWp of Solar Energy for Cuba

The project aims to contribute to the stable and clean energy supply for health institutions in Cuba, enabling them to more effectively provide healthcare services to the population.



Cuba has exemplarily and commendably guaranteed the right to health for its inhabitants.

The national pharmaceutical industry has the capacity to meet much of the country's demand for medicines and vaccines, but various limitations hinder its ability to respond to needs, including the availability of stable and continuous energy. Hospitals, health centers, and institutions responsible for training healthcare personnel are also affected by energy shortages, which force them to reduce service hours and impact the quality of care for the population.

The island's electricity generation is heavily reliant on fossil fuels, which is not only costly and inefficient but also highly polluting and recently further complicated by fuel shortages. For all these reasons, the country has prioritized energy autonomy through renewable sources, aiming to achieve 24% renewable energy by 2030.

Solar Energy for Research and Medical Training Institutes

To support this significant effort by the Cuban authorities, mediCuba-Europa (mCE), in collaboration with other European solidarity organizations, has decided to initially support three solar energy projects:

- **Finlay Vaccine Institute:** Support for a solar plant with a capacity of 300 kWp on the rooftops of its industrial facilities (in collaboration with the Karen Stiftung of Germany).
- **A pilot plant at the Latin American School of Medicine (ELAM):** 60 kWp capacity (in collaboration with Interred of Germany).
- **A solar roof over the parking lot of the Center for Molecular Immunology (CIM):** 90 kWp capacity (in collaboration with the Swiss Lymphoma ongress).

Expected Outcomes

- ✓ Consolidate alliances with various solidarity actors in Europe to support the solarization of Cuban health institutions.
- ✓ Install solar plants with a total capacity of 1000 kWp in various health institutions across Cuba.
- ✓ Support capacity building for the proper maintenance of solar plants in each health institution involved in the project.



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Budget

2024	2025	2026	Total
€ 280 000,00	€ 300 000,00	€ 220 000,00	€ 800 000,00

The amounts include installation, commissioning, and modest monitoring expenses by mediCuba-Europa.

Duration

3 years (2024 - 2026)

Estimated annual capacity (based on current prices and technology):

2024:	258 kWp
2025:	398 kWp
2026:	344 kWp
Total:	1000 kWp



While the global impact of the project is limited when considering Cuba's national energy consumption, the institutions receiving the solar plants will benefit significantly by:

- Reducing the use of fossil fuels.
- Decreasing energy losses in the national grid.
- Easing the national grid's electricity supply burden.
- Lowering electricity costs for public utility institutions.

