

PHC Service One-Pager

Project: Mussomeli Caltanissetta Solar Farm (Project ID: PR428)

Location: Mussomeli, Sicily, Italy

Sector: Commercial / Renewable Energy

Status: Operational; potential expansion and PHC Service integration under review.

1. Project Snapshot

The Mussomeli Caltanissetta Solar Farm is a 4.5 MW photovoltaic power installation providing renewable energy to the Sicilian grid. The facility contributes to Italy's green transition objectives and aligns with the EU's sustainability agenda. Through the PHC Service, the project presents an opportunity to apply structured governance and performance monitoring, ensuring operational efficiency, predictive maintenance, and transparent environmental reporting. The site also offers potential for future expansion and for integration with agrivoltaic agricultural applications, combining clean energy with sustainable land use.

2. Current Risks / Concerns

- Limited performance data integration with local governance structures.
- Absence of PHC-standard monitoring for efficiency, maintenance, and compliance.
- Opportunity to strengthen community participation in sustainability reporting.
- Need for improved cross-sector coordination between energy operators and the municipality.

3. PHC Service Offer

The PHC Service introduces continuous performance tracking and transparent reporting for renewable energy operations. It integrates the plant's production data, maintenance logs, and compliance metrics into PHC dashboards for both technical and governance oversight. The Service can also manage coordination with local authorities to align renewable-energy outputs with regional sustainability goals.

4. Commercial + Humanitarian Flow

Under PHC Service governance, a small portion of operational revenue can be channelled into local humanitarian initiatives such as the TTGD EcoSociety and community training programmes. This model ensures that clean-energy development contributes directly to social growth and community engagement in Mussomeli.

5. Next Steps

- Conduct initial PHC 7-Day Review with plant management and municipal stakeholders.
- Integrate plant data into PHC monitoring dashboards.
- Develop long-term performance indicators for transparency and optimisation.
- Explore opportunities for agrivoltaic expansion under PHC supervision.
- Formalise PHC Service agreement with the plant operator and municipality.