Wind–PV hybridisation

Needs confirmation

The shared-grid energy case is calculated; measured wind, micrositing, ecology and connection studies remain open.

2,4 MW
Wind capacity
Synthetic inputs

7248,9 MWh/year
Wind after grid constraints
Synthetic inputs

620,1 MWh/year
Wind curtailed by the shared limit
Synthetic inputs

Not a financing approval. All figures come from the frozen synthetic sample.

Visual site reference - illustrative, not surveyed

Separate from the frozen synthetic calculation. Not a route survey or cadastral extract.

Wind example - DEMO parcels



Generated landscape. Routes, consumer and equipment are illustrative. No measured scale.

842/3 - turbine T-02 footprint; 843/2 - cable crossing; 845/1 - access road. All DEMO.

Verify cadastral area, parcel boundaries, turbine positions and land rights before using these concepts.

OWNER DECISION REPORT

Wind–PV hybridisation

English report copy · figures retain the IT edition's EUR convention.

HYBRID OUTPUT CALCULATED · SITE EVIDENCE REQUIRED

A synthetic site boundary and assumed wind speed demonstrate the screen, not a permitted turbine location.

Decision metrics

Metric	Result	Basis
Wind capacity	2,4 MW	Synthetic inputs
Wind after grid constraints	7248,9 MWh/year	Synthetic inputs
Wind curtailed by the shared limit	620,1 MWh/year	Synthetic inputs
Investment allowance	3.840.000 €	Synthetic inputs

What this scenario establishes

An annual model is included in this calculation. Its tax basis and assumptions must be reviewed before use.

Modelled hybrid output does not establish a turbine position, measured wind resource or a shared-connection approval.

Illustrative inputs

- Synthetic 4 MWp plant: 16,000 modules × 250 Wp.
- 4,400 MWh/year generation and 8 ha site area are illustrative inputs.
- No grid import agreement, customer contract or surveyed layout is supplied.

Evidence needed next

- Validate the wind resource and manufacturer power curve.
- Review dwelling setbacks, noise, ecology and land access.
- Confirm shared-grid and electrical interface feasibility.

Engineering handoff

CONCEPT PACKAGE · ENGINEER VERIFICATION REQUIRED

The sample package contains a functional concept SLD built from explicit synthetic assumptions. It is editable and traceable, but it is not for construction and does not invent protection, cable, earthing or utility approvals.

- Concept single-line diagram · PDF, SVG and editable DXF
- Equipment, feeder, evidence and information-required schedules · XLSX and CSV
- Design basis, saved decision brief and exact result snapshot · PDF and JSON
- Checksummed manifest and package lineage · JSON

Calculation basis

This report is generated from a frozen synthetic PV8 calculation. No customer information or live provider response is included.

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Use this example to see the decision process. Your own result depends on your plant, assumptions and evidence; it is not a financing approval.