# Wind–PV hybridisation

**Needs confirmation**

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

| 2.4 MW | 7,248.9 MWh/year | 620.1 MWh/year |
|---|---|---|
| Wind capacity | Wind after grid constraints | Wind curtailed by the shared limit |
| Synthetic inputs | Synthetic inputs | 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 HR 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 | 7,248.9 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.

SHA-256: 31abd917ab3ae4eb9d727832caa5390bdb3c6d516f1d7522d280fd0f1dd6b20d

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