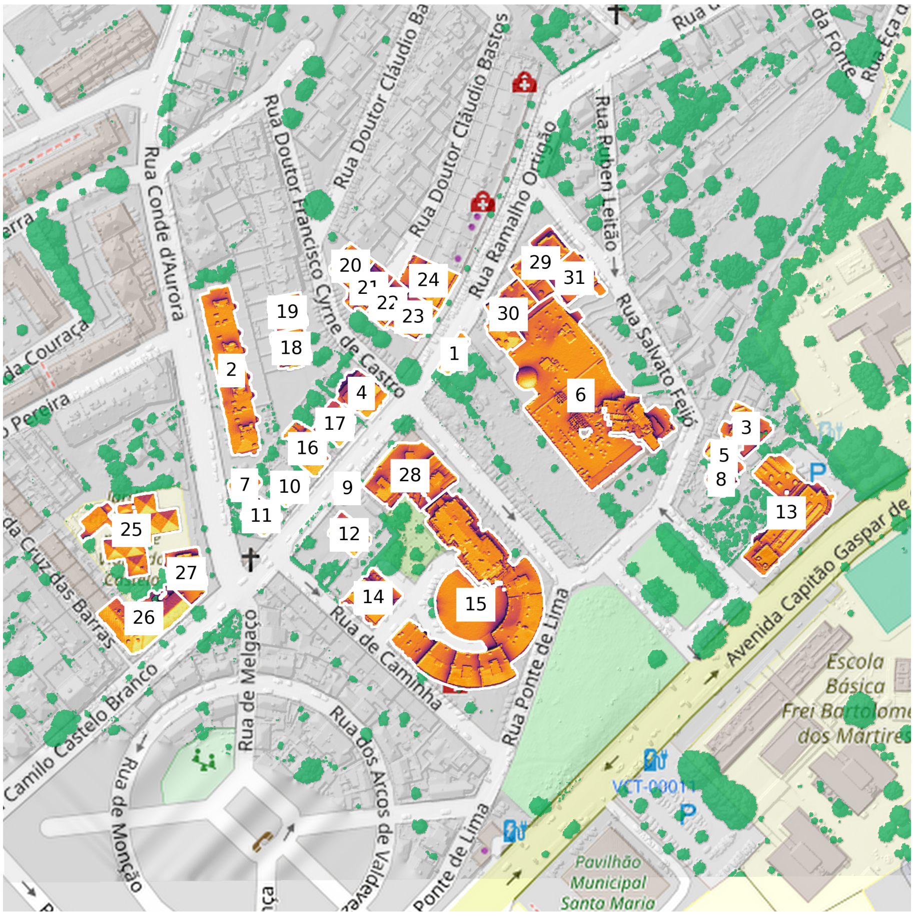
Analysis of Solar Energy Potential of Real Estate Properties

This report presents a data-driven assessment of the solar energy generation potential of selected buildings.



This document contains the results of a preliminary analytical assessment of rooftop solar energy potential based on high-resolution LiDAR data and meteorological datasets.

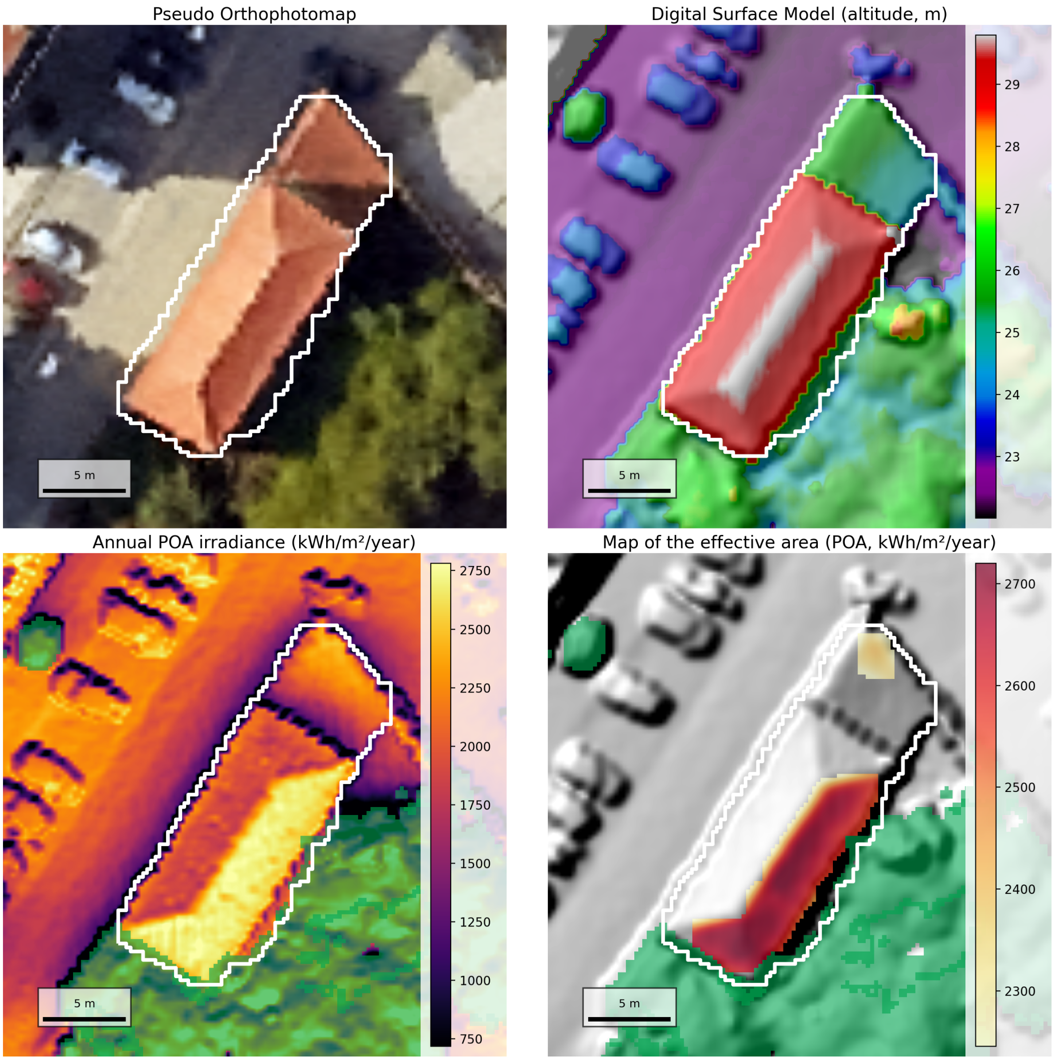
LiDAR (Light Detection and Ranging) is a remote sensing technology that uses laser scanning to create a highly detailed 3D model of the terrain, buildings, and surrounding objects. This allows accurate estimation of roof geometry, slope, orientation, and shading conditions.

For each building, the available roof area, tilt angle, orientation, and shading from terrain, nearby buildings, and vegetation were analyzed. Annual and monthly energy generation forecasts were calculated using PVGIS meteorological data for 2024.

Each property is presented on a separate report page.

Rua Ramalho Ortigão 108, 4900-422 Viana do Castelo, Portugal

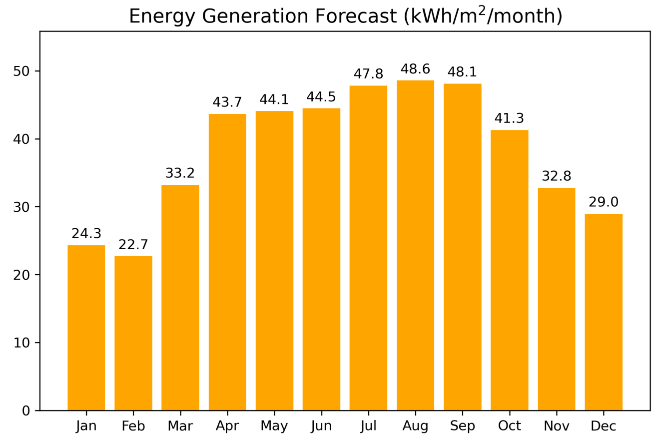
1



The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]
Latitude: 41.70303, Longitude: -8.82352

Total Roof Area (m²)	174.06
Effective Area (m²)	56.94
Average POA Over Effective Area (kWh/m²/year)	2580
Total POA Over Effective Area (kWh/year)	146914
Average Energy Generation Forecast (kWh/m²/year)	454
Total Energy Generation Forecast (kWh/year)	25857
Average Slope Angle of the Effective Area (degrees)	20

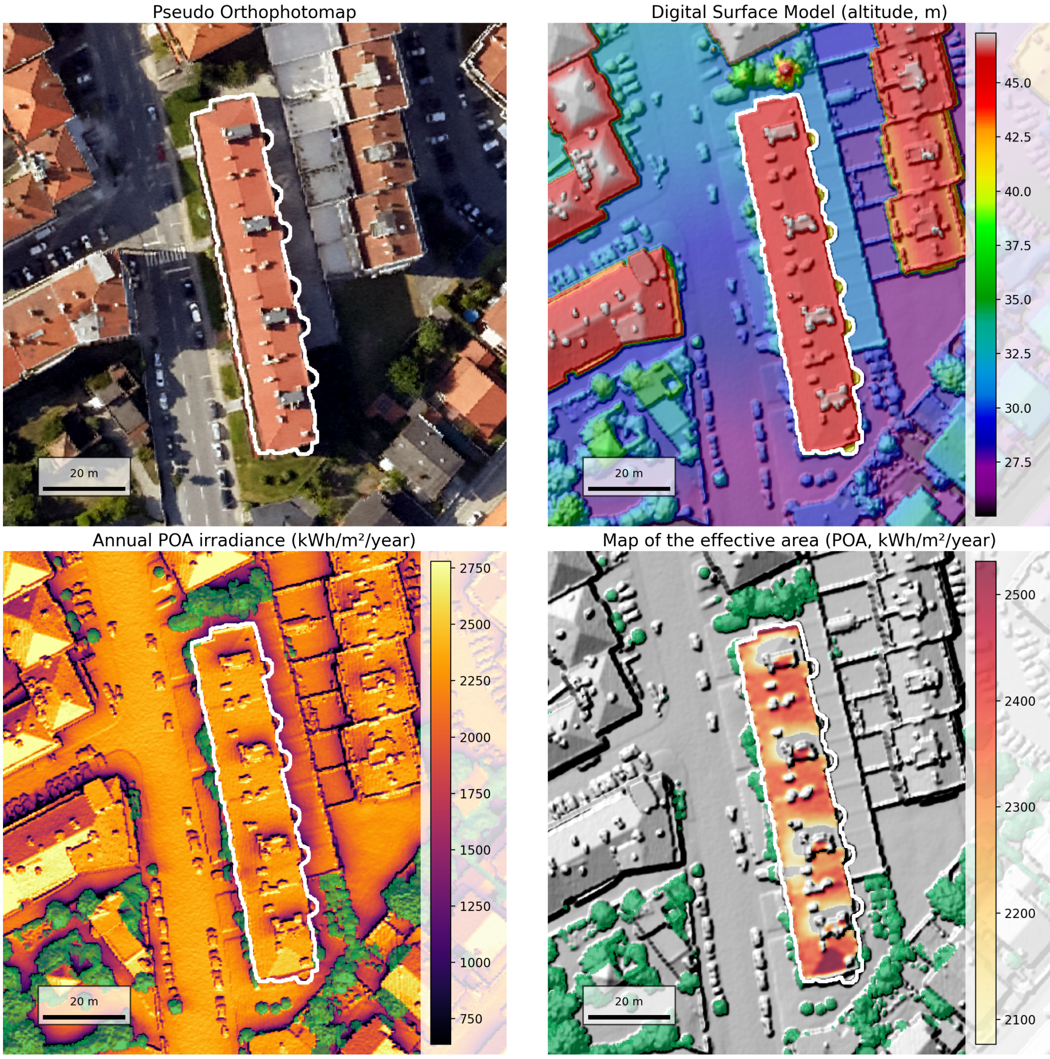


The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Conde Dona Aurora 762, 4900-443 Viana do Castelo, Portugal

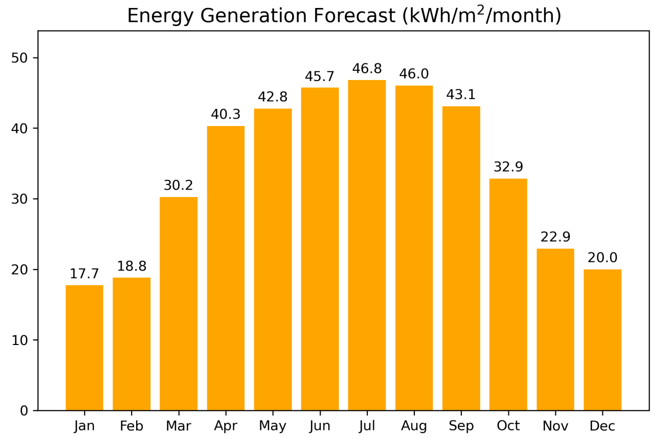
2



The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]
Latitude: 41.70295, Longitude: -8.8249

Total Roof Area (m²)	1413.69
Effective Area (m²)	906.31
Average POA Over Effective Area (kWh/m²/year)	2304
Total POA Over Effective Area (kWh/year)	2088193
Average Energy Generation Forecast (kWh/m²/year)	406
Total Energy Generation Forecast (kWh/year)	367522
Average Slope Angle of the Effective Area (degrees)	9



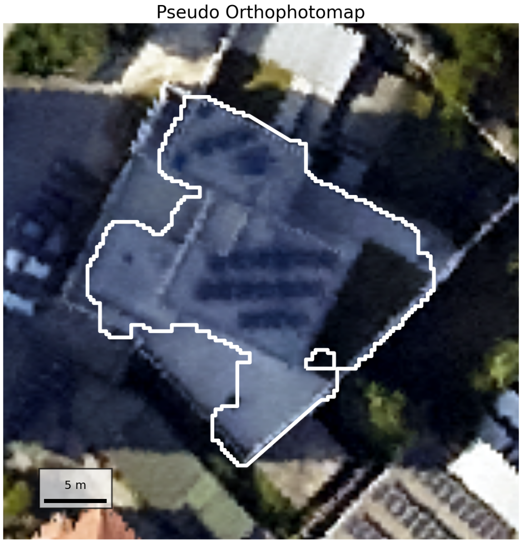
The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

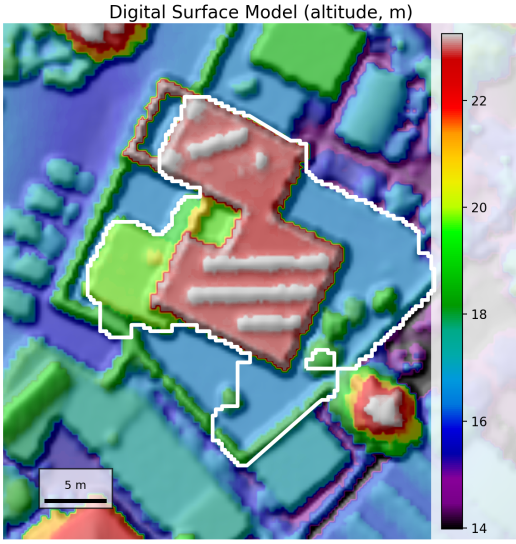
Rua Salvato Feijó 50, 4900-415 Viana do Castelo, Portugal

3

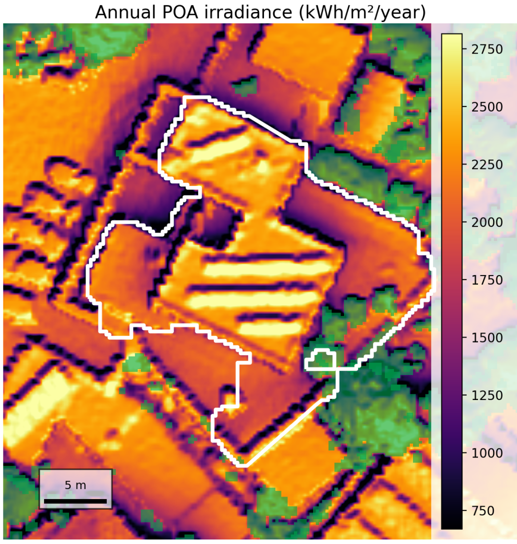
Pseudo Orthophotomap



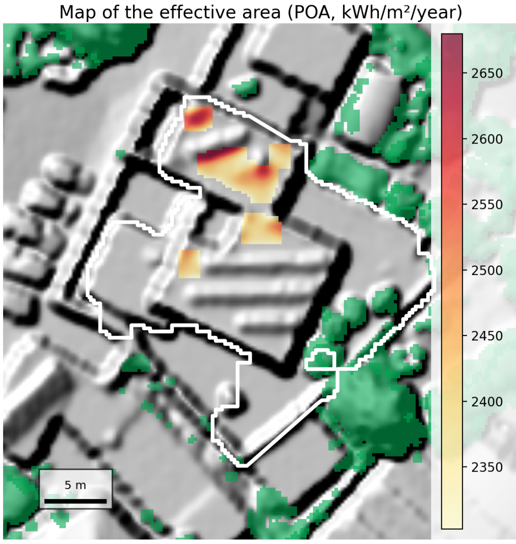
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)



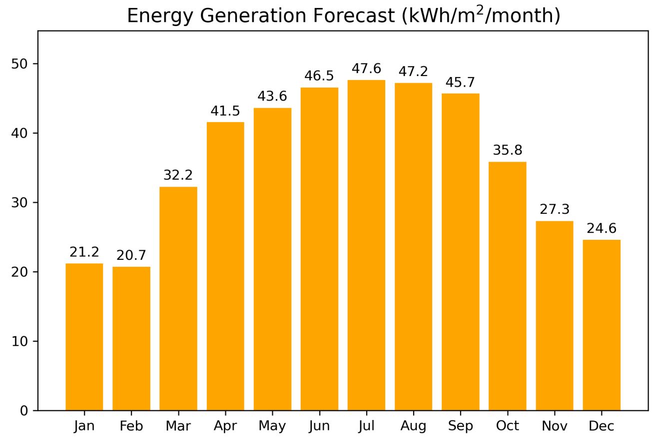
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()

Latitude: 41.70268, Longitude: -8.82171

Total Roof Area (m²)	407.13
Effective Area (m²)	37.56
Average POA Over Effective Area (kWh/m²/year)	2432
Total POA Over Effective Area (kWh/year)	91355
Average Energy Generation Forecast (kWh/m²/year)	428
Total Energy Generation Forecast (kWh/year)	16078
Average Slope Angle of the Effective Area (degrees)	8

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 79, 4900-422 Viana do Castelo, Portugal

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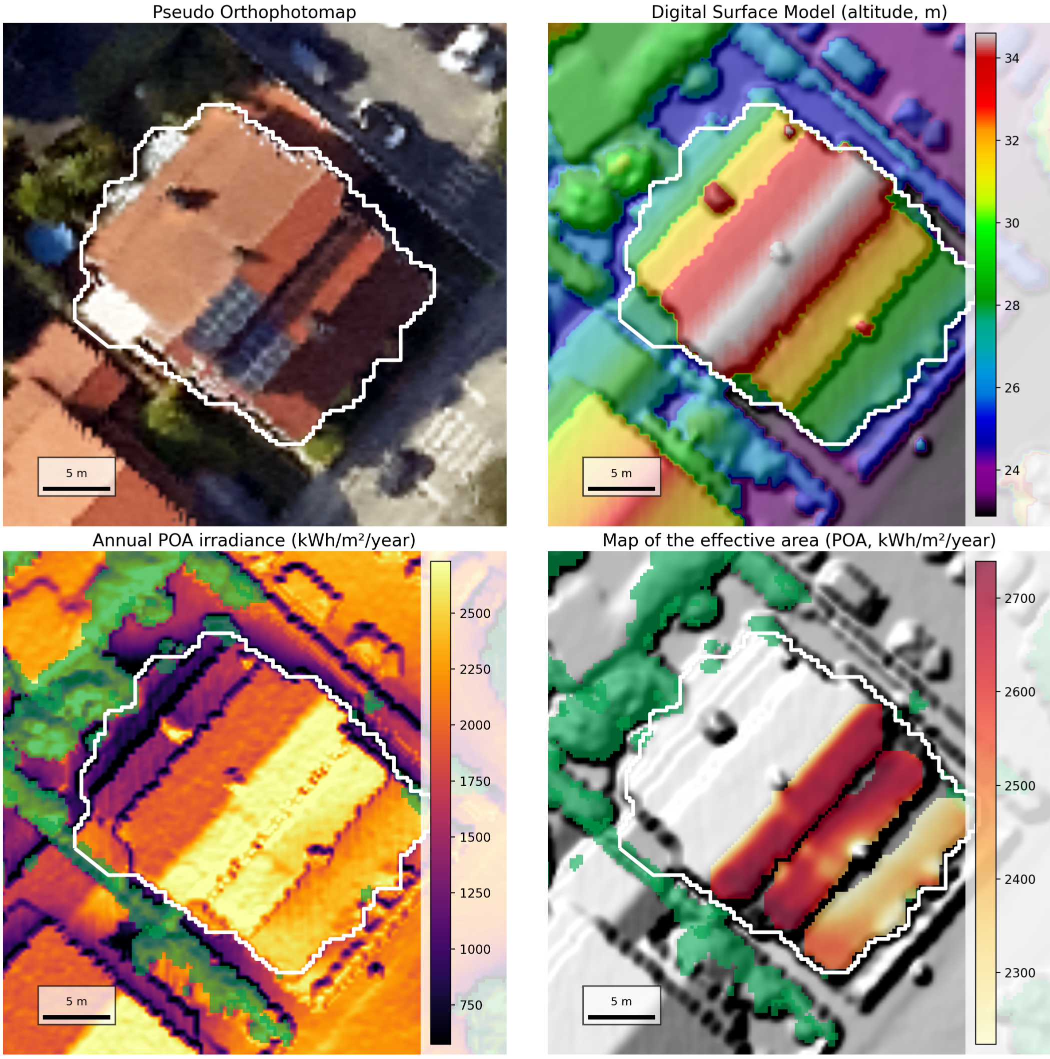
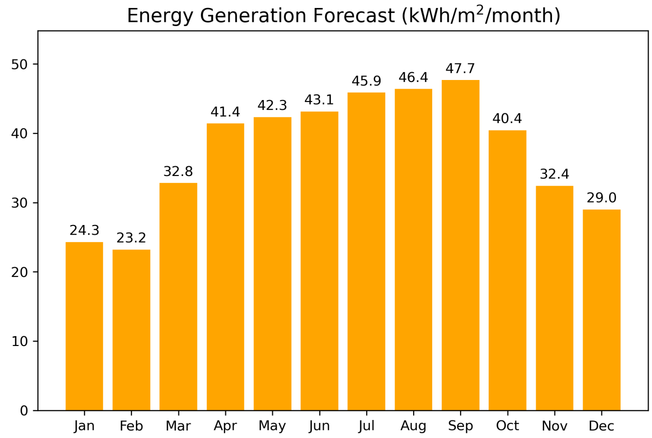


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70284, Longitude: -8.82408

Total Roof Area (m²)	422.44
Effective Area (m²)	177.06
Average POA Over Effective Area (kWh/m²/year)	2536
Total POA Over Effective Area (kWh/year)	449097
Average Energy Generation Forecast (kWh/m²/year)	446
Total Energy Generation Forecast (kWh/year)	79041
Average Slope Angle of the Effective Area (degrees)	18



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Salvato Feijó 12, 4900-415 Viana do Castelo, Portugal

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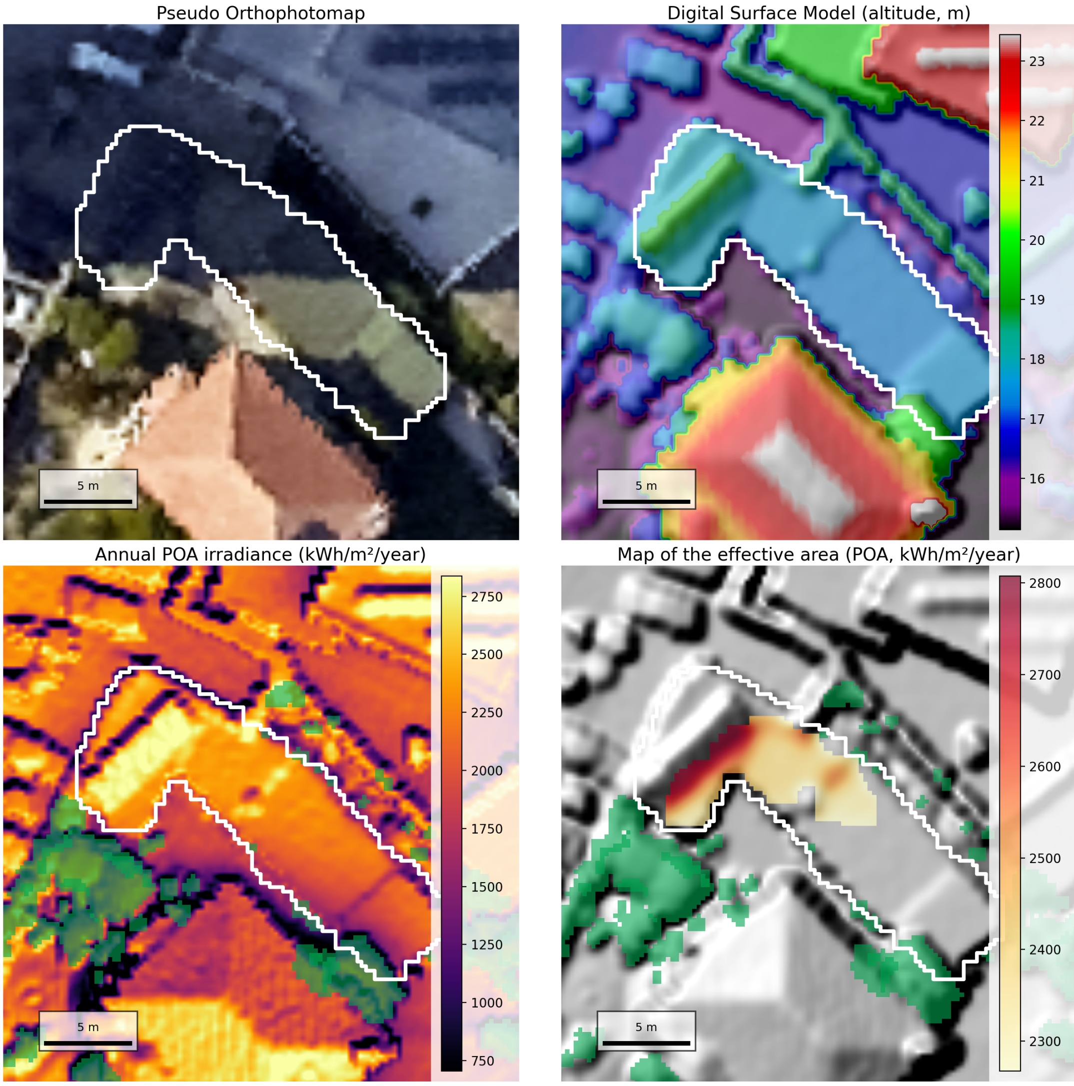
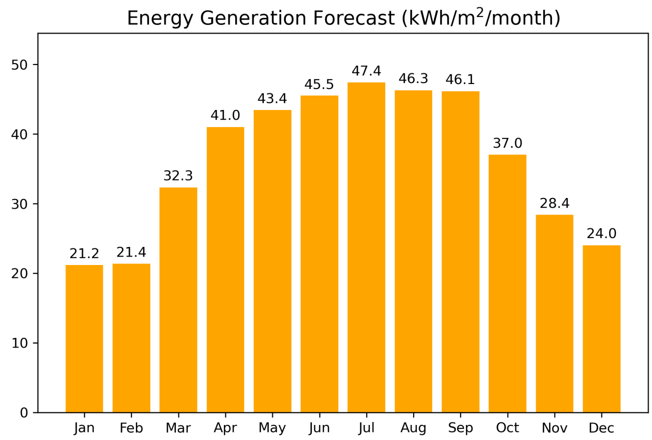


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]
Latitude: 41.70255, Longitude: -8.82182

Total Roof Area (m²)	152.19
Effective Area (m²)	43.0
Average POA Over Effective Area (kWh/m²/year)	2450
Total POA Over Effective Area (kWh/year)	105351
Average Energy Generation Forecast (kWh/m²/year)	431
Total Energy Generation Forecast (kWh/year)	18542
Average Slope Angle of the Effective Area (degrees)	12



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Salvato Feijó, Edifício Torre do Liceu, 4900-415 Viana do Castelo, Portugal

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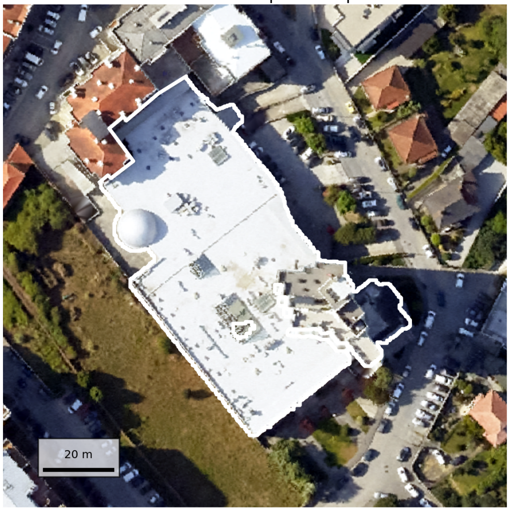
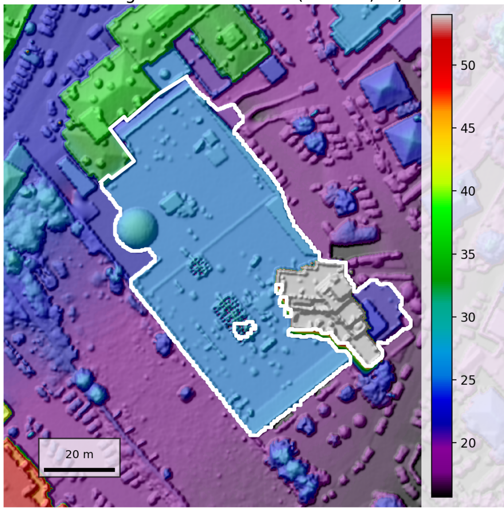
Pseudo Orthophotomap

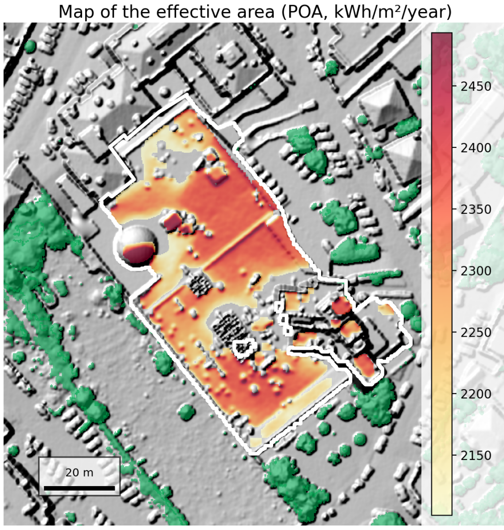


Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)

Map of the effective area (POA, kWh/m²/year)



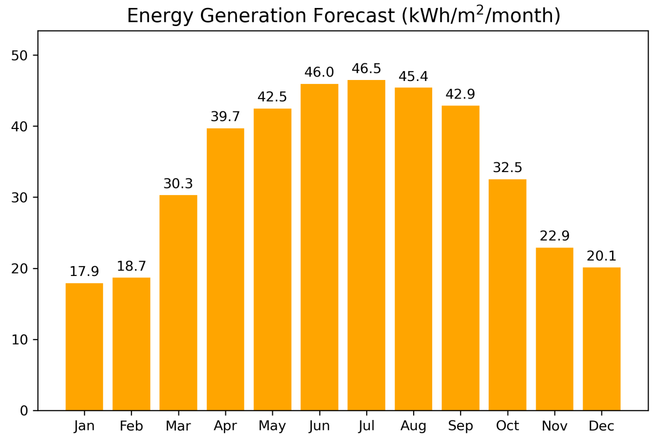
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70285, Longitude: -8.82273

Total Roof Area (m²)	4188.3
Effective Area (m²)	2416.38
Average POA Over Effective Area (kWh/m²/year)	2293
Total POA Over Effective Area (kWh/year)	5540252
Average Energy Generation Forecast (kWh/m²/year)	404
Total Energy Generation Forecast (kWh/year)	975084
Average Slope Angle of the Effective Area (degrees)	5

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Conde Dona Aurora 718, 4900-443 Viana do Castelo, Portugal

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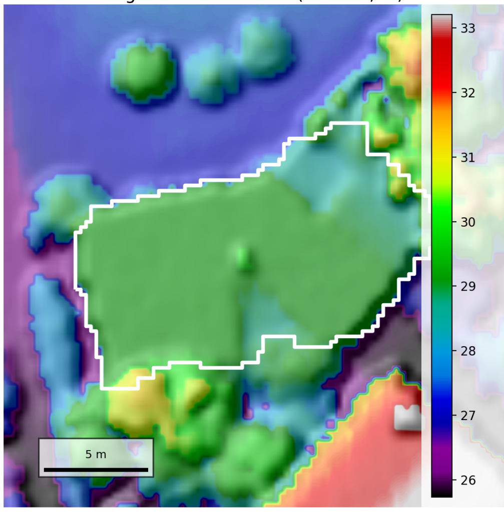
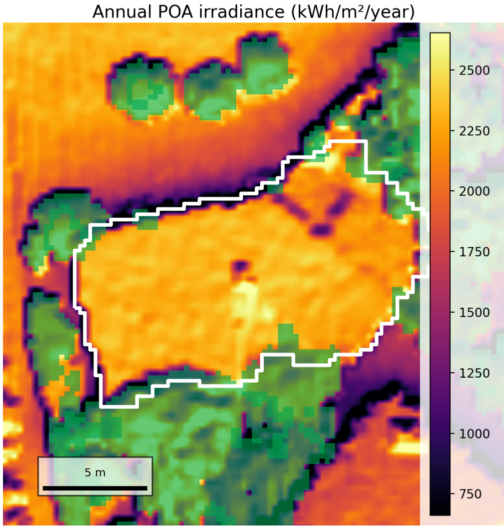
Pseudo Orthophotomap

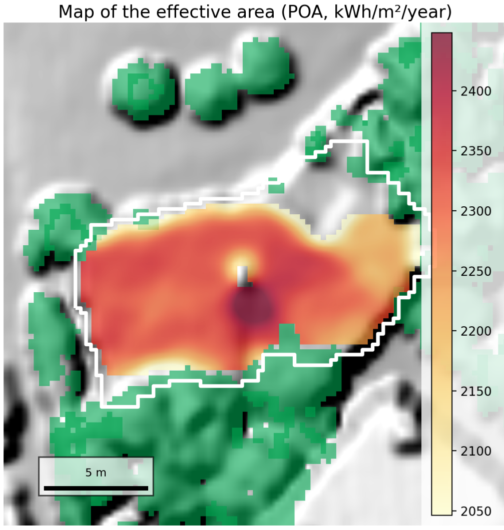
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)



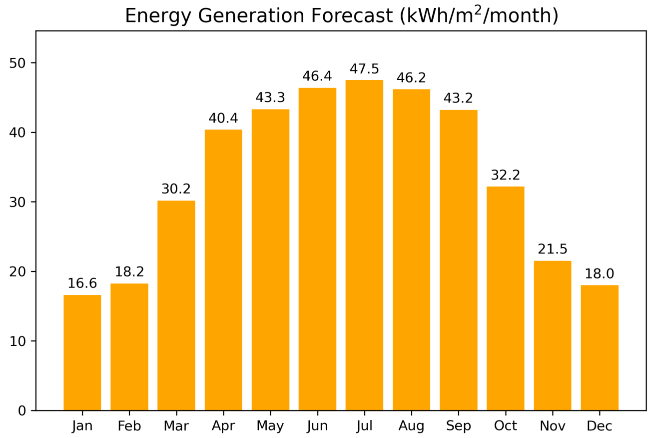
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70242, Longitude: -8.82482

Total Roof Area (m²)	140.38
Effective Area (m²)	100.69
Average POA Over Effective Area (kWh/m²/year)	2282
Total POA Over Effective Area (kWh/year)	229800
Average Energy Generation Forecast (kWh/m²/year)	402
Total Energy Generation Forecast (kWh/year)	40445
Average Slope Angle of the Effective Area (degrees)	6

Energy Generation Forecast (kWh/m^2/month)

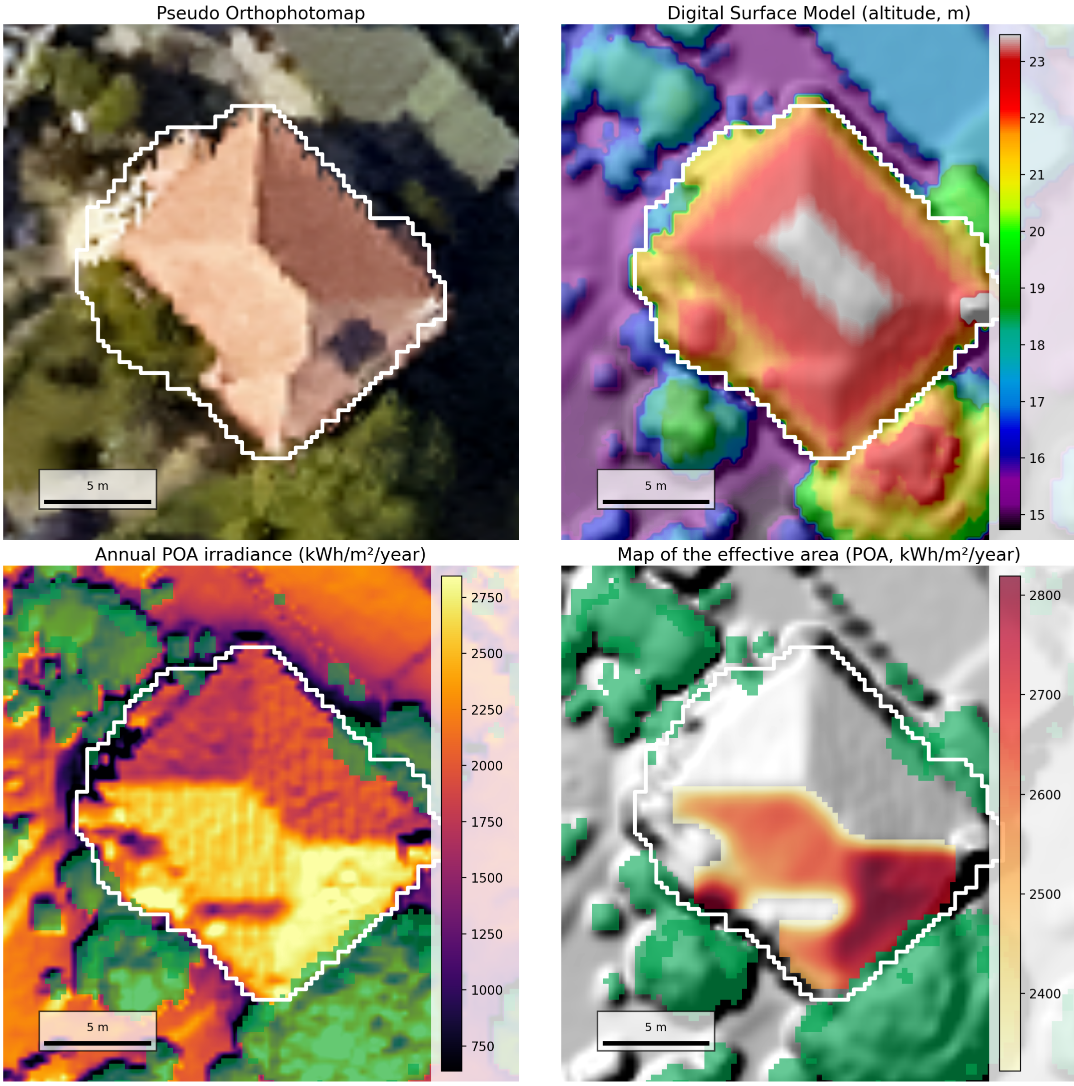


The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Salvato Feijó 12, 4900-415 Viana do Castelo, Portugal

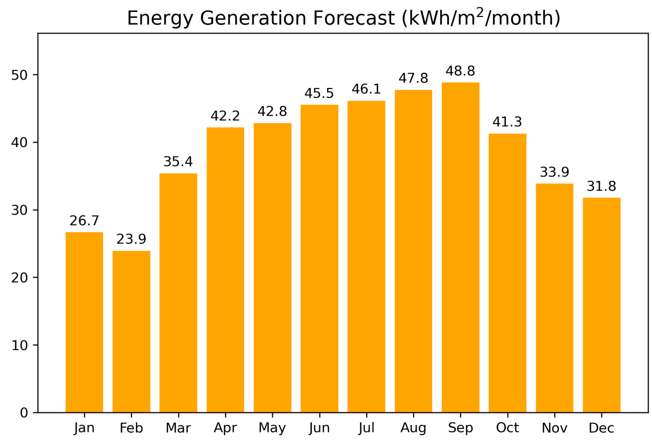
8



The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()
Latitude: 41.70244, Longitude: -8.82186

Total Roof Area (m²)	181.0
Effective Area (m²)	69.62
Average POA Over Effective Area (kWh/m²/year)	2608
Total POA Over Effective Area (kWh/year)	181547
Average Energy Generation Forecast (kWh/m²/year)	459
Total Energy Generation Forecast (kWh/year)	31952
Average Slope Angle of the Effective Area (degrees)	22



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 78, 4900-422 Viana do Castelo, Portugal

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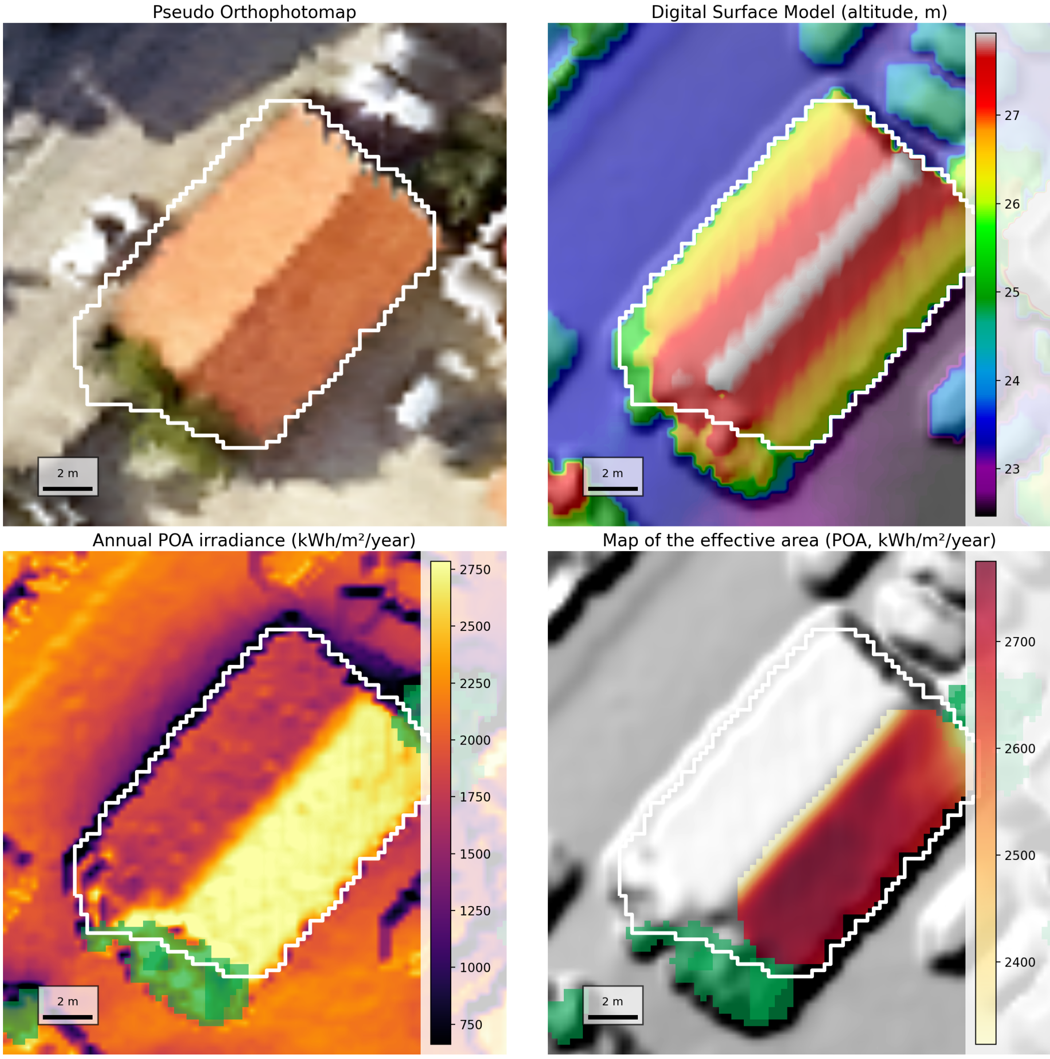
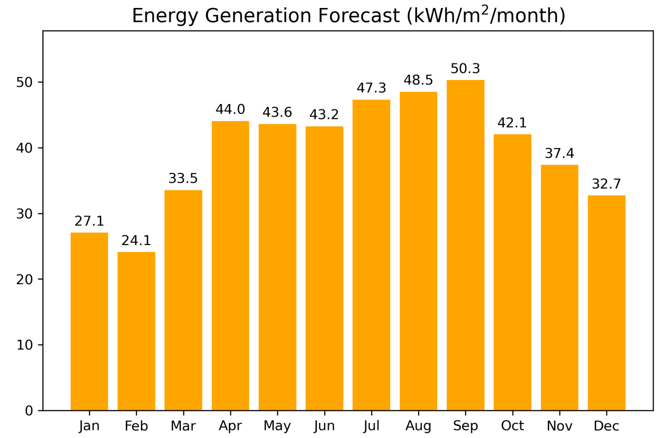


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70241, Longitude: -8.82417

Total Roof Area (m²)	123.62
Effective Area (m²)	50.5
Average POA Over Effective Area (kWh/m²/year)	2673
Total POA Over Effective Area (kWh/year)	134971
Average Energy Generation Forecast (kWh/m²/year)	470
Total Energy Generation Forecast (kWh/year)	23755
Average Slope Angle of the Effective Area (degrees)	23



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 31, 4900-422 Viana do Castelo, Portugal

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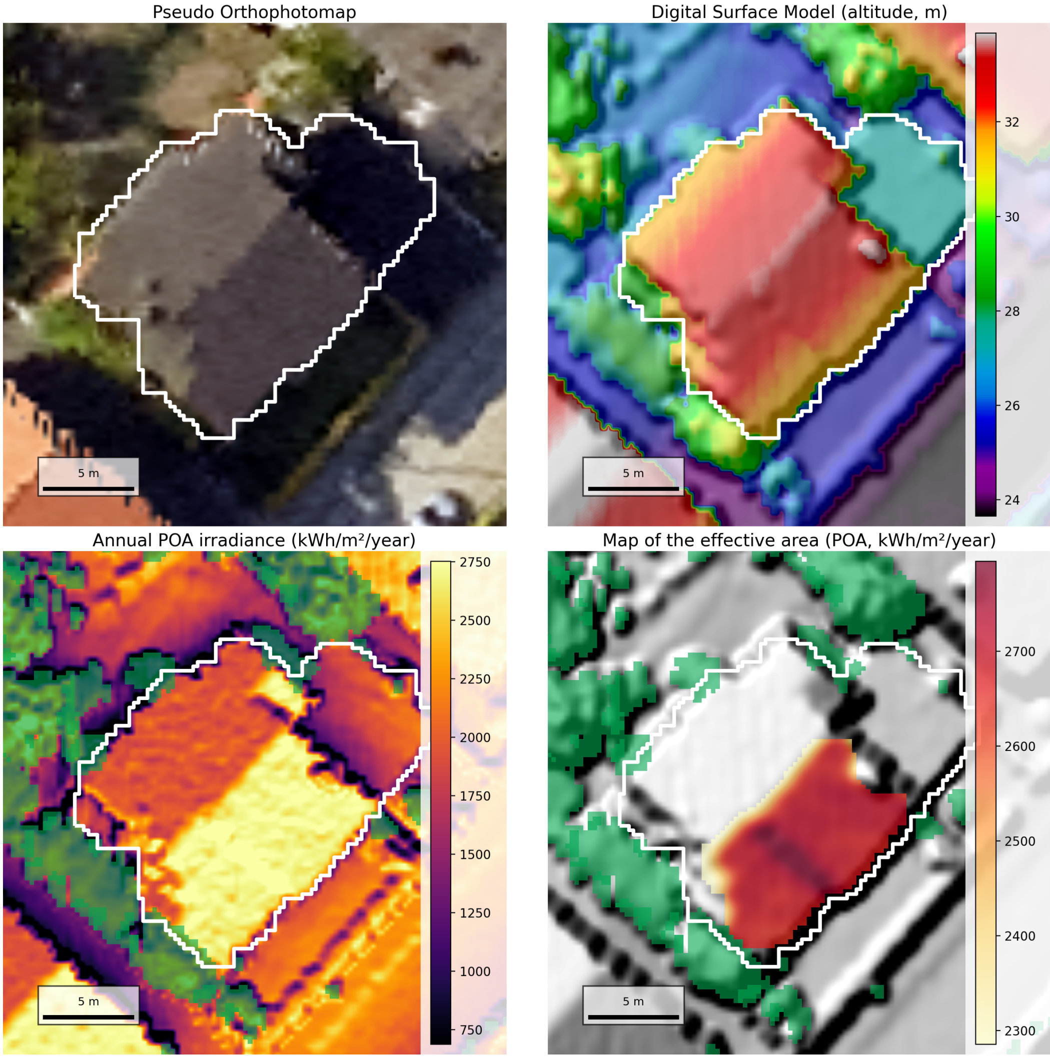
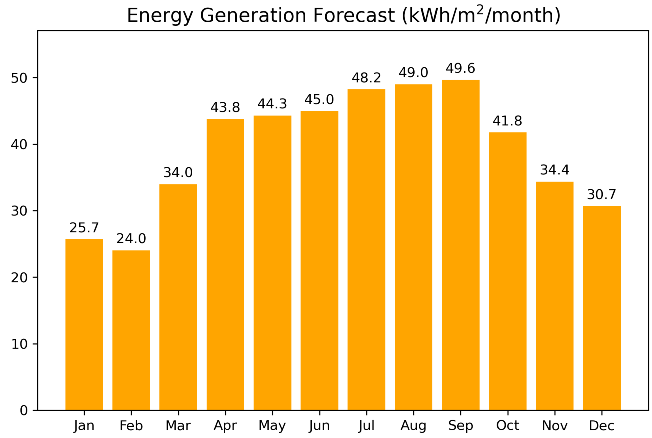


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()

Latitude: 41.7024, Longitude: -8.82455

Total Roof Area (m²)	218.25
Effective Area (m²)	72.88
Average POA Over Effective Area (kWh/m²/year)	2657
Total POA Over Effective Area (kWh/year)	193631
Average Energy Generation Forecast (kWh/m²/year)	468
Total Energy Generation Forecast (kWh/year)	34079
Average Slope Angle of the Effective Area (degrees)	19



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 13, 4900-422 Viana do Castelo, Portugal

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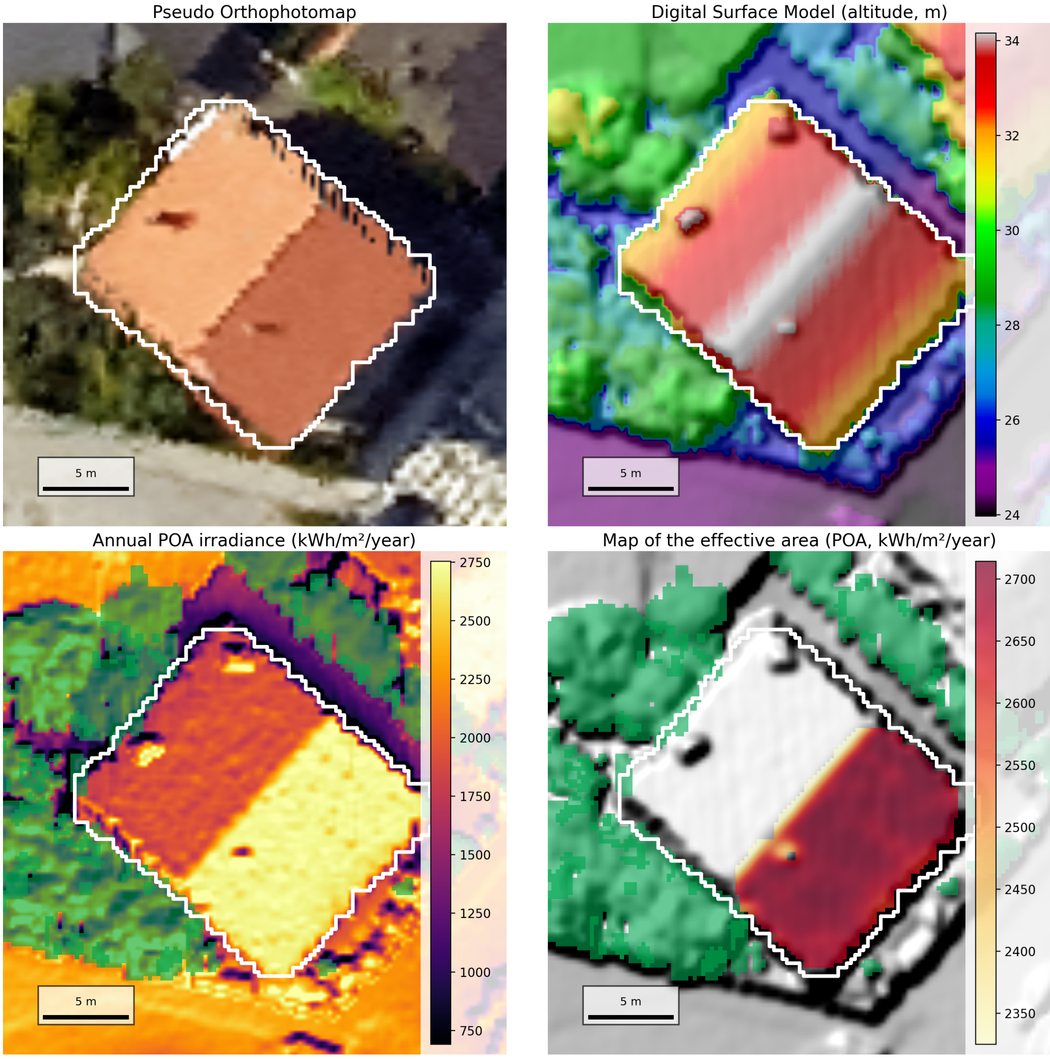
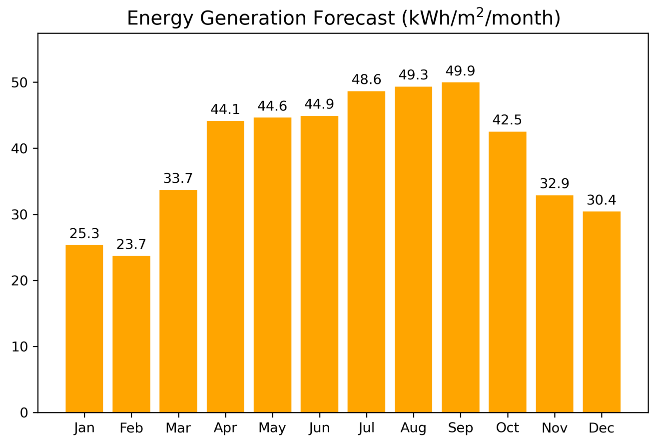


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70227, Longitude: -8.82471

Total Roof Area (m²)	243.94
Effective Area (m²)	108.0
Average POA Over Effective Area (kWh/m²/year)	2662
Total POA Over Effective Area (kWh/year)	287447
Average Energy Generation Forecast (kWh/m²/year)	468
Total Energy Generation Forecast (kWh/year)	50591
Average Slope Angle of the Effective Area (degrees)	18



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 124, 4900-422 Viana do Castelo, Portugal

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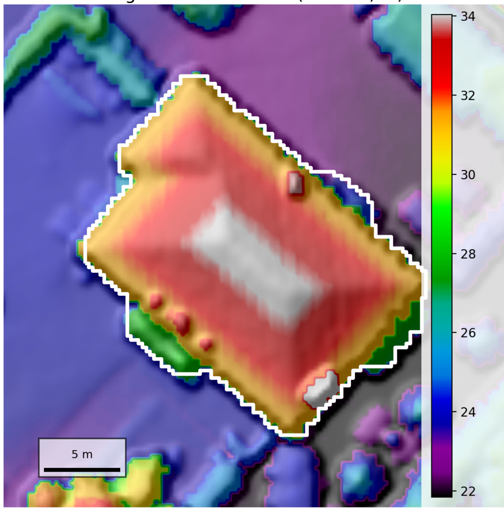
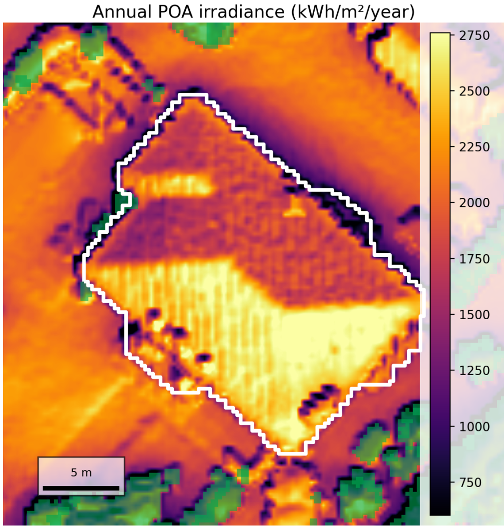
Pseudo Orthophotomap

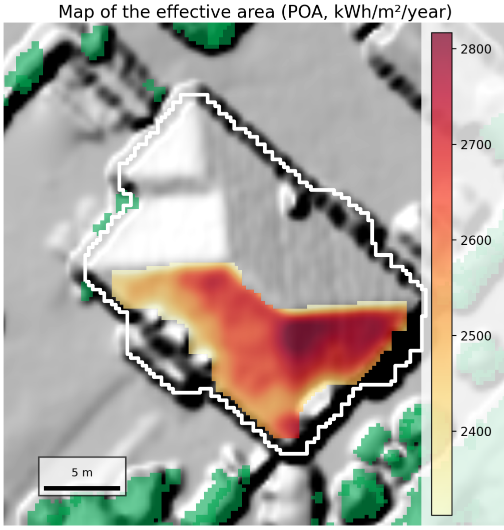
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)



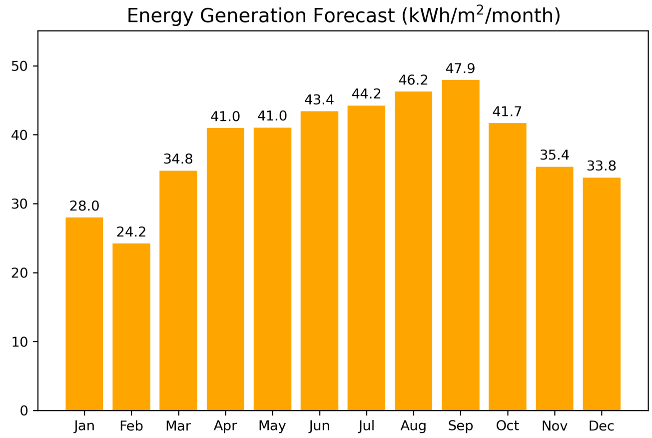
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.7022, Longitude: -8.82417

Total Roof Area (m²)	306.75
Effective Area (m²)	105.31
Average POA Over Effective Area (kWh/m²/year)	2600
Total POA Over Effective Area (kWh/year)	273769
Average Energy Generation Forecast (kWh/m²/year)	458
Total Energy Generation Forecast (kWh/year)	48183
Average Slope Angle of the Effective Area (degrees)	27

Energy Generation Forecast (kWh/m^2/month)



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PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Avenida Capitão Gaspar de Castro, 4900 Viana do Castelo, Portugal

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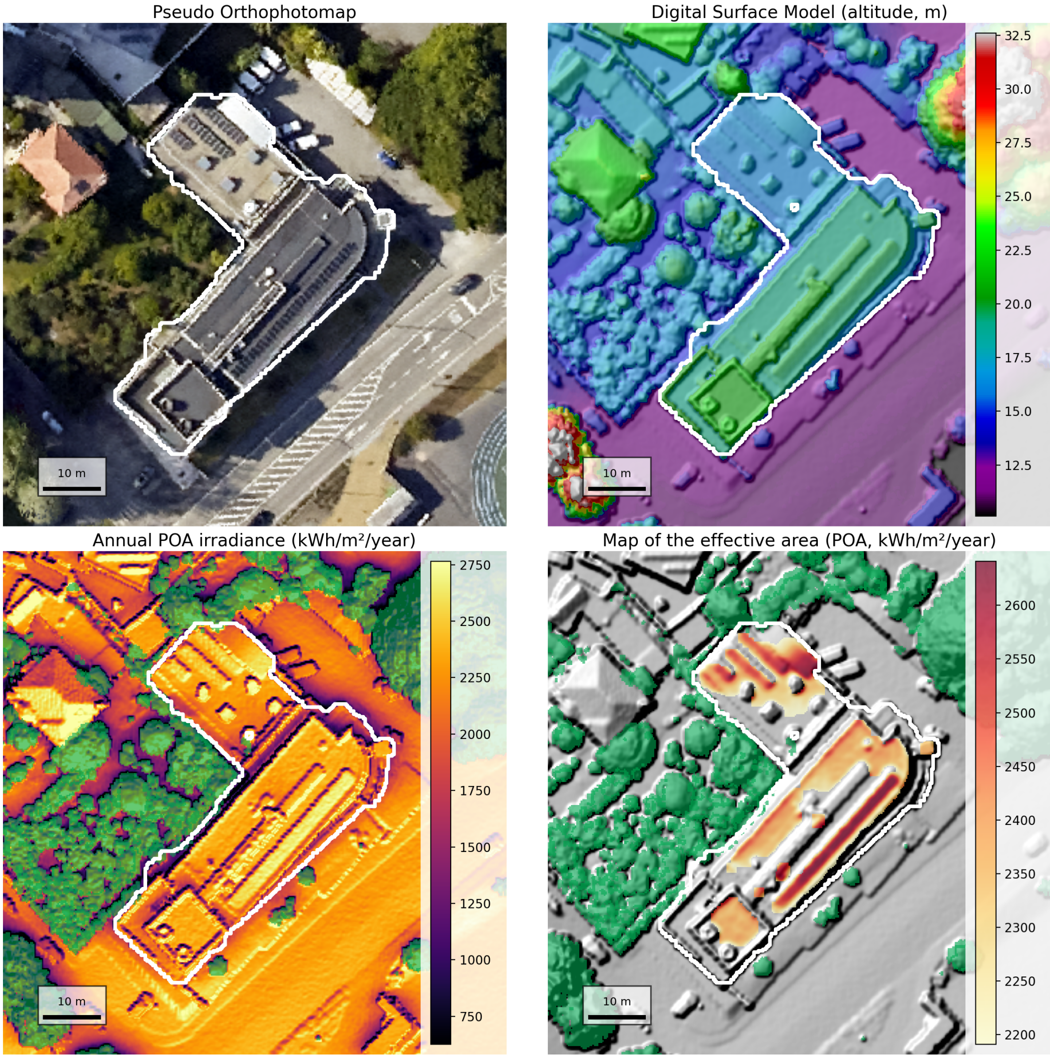
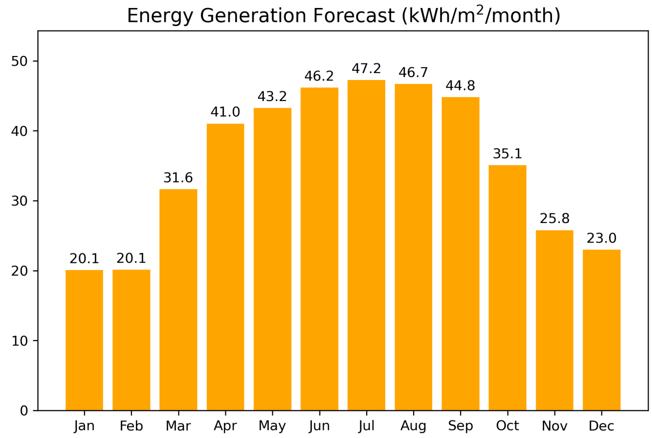


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()
Latitude: 41.70228, Longitude: -8.82136

Total Roof Area (m²)	1370.31
Effective Area (m²)	528.69
Average POA Over Effective Area (kWh/m²/year)	2384
Total POA Over Effective Area (kWh/year)	1260603
Average Energy Generation Forecast (kWh/m²/year)	420
Total Energy Generation Forecast (kWh/year)	221866
Average Slope Angle of the Effective Area (degrees)	10



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua de Caminha 84, 4900-468 Viana do Castelo, Portugal

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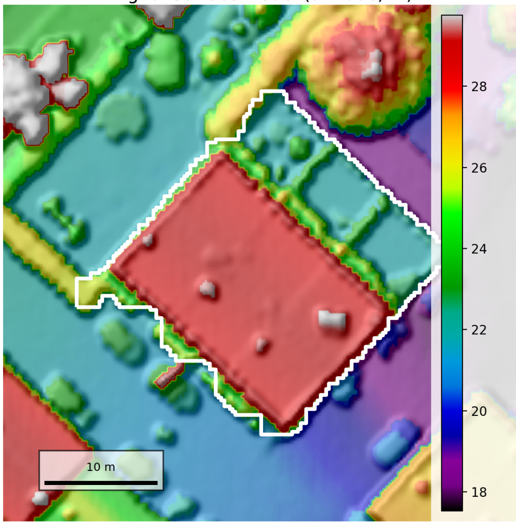
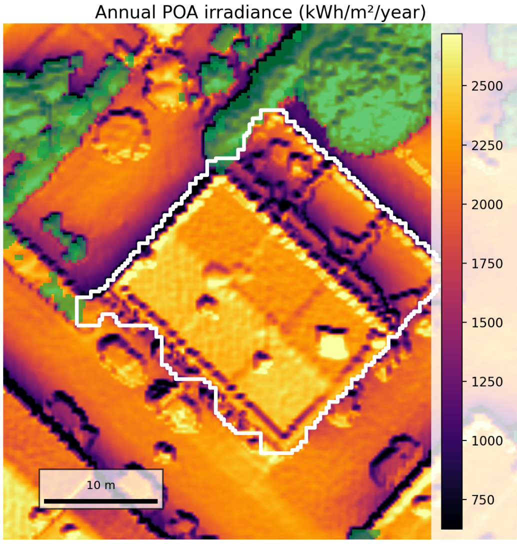
Pseudo Orthophotomap

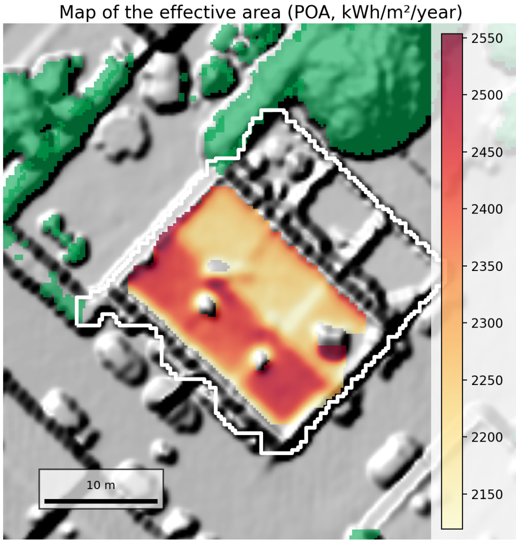
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)



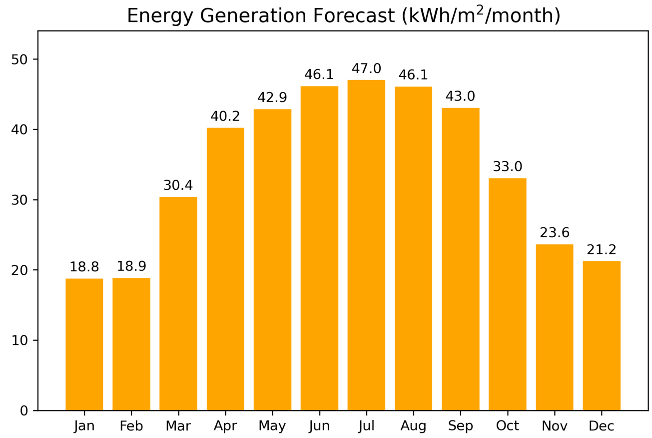
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.7019, Longitude: -8.82402

Total Roof Area (m²)	502.94
Effective Area (m²)	233.44
Average POA Over Effective Area (kWh/m²/year)	2325
Total POA Over Effective Area (kWh/year)	542729
Average Energy Generation Forecast (kWh/m²/year)	409
Total Energy Generation Forecast (kWh/year)	95520
Average Slope Angle of the Effective Area (degrees)	11

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Doutor Ribeiro Silva 257, 4900-454 Viana do Castelo, Portugal

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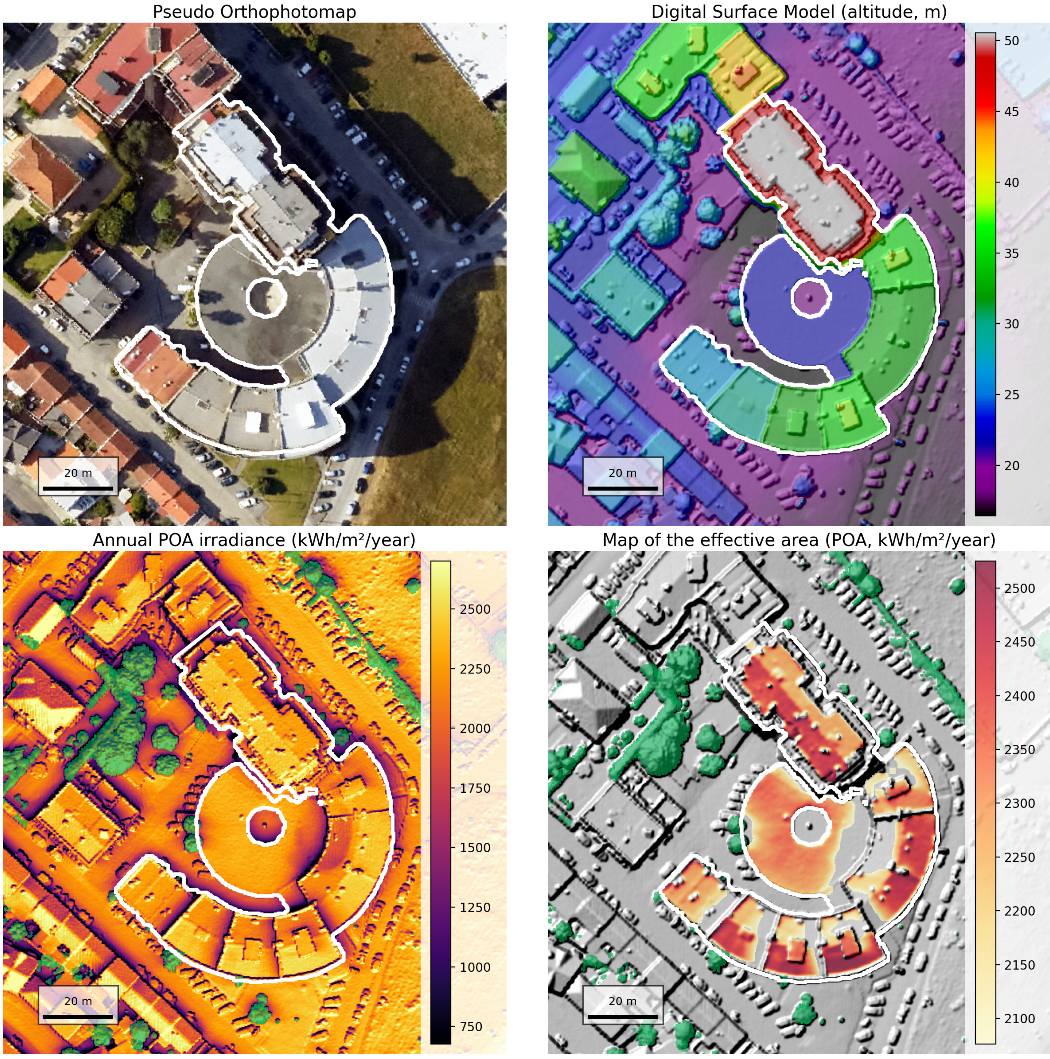
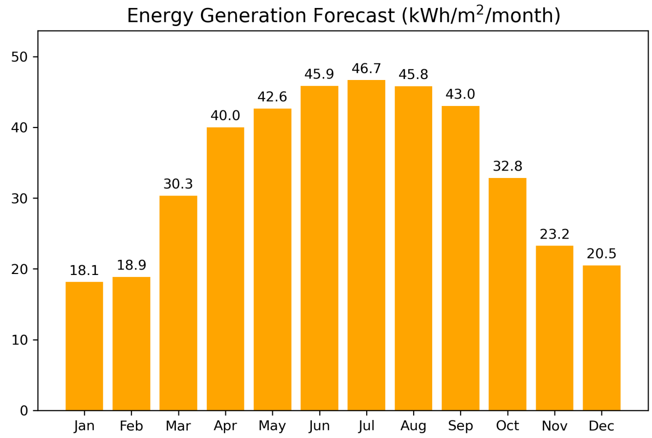


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]
Latitude: 41.70194, Longitude: -8.82342

Total Roof Area (m²)	4139.37
Effective Area (m²)	2435.38
Average POA Over Effective Area (kWh/m²/year)	2309
Total POA Over Effective Area (kWh/year)	5624047
Average Energy Generation Forecast (kWh/m²/year)	406
Total Energy Generation Forecast (kWh/year)	989832
Average Slope Angle of the Effective Area (degrees)	7



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 55, 4900-422 Viana do Castelo, Portugal

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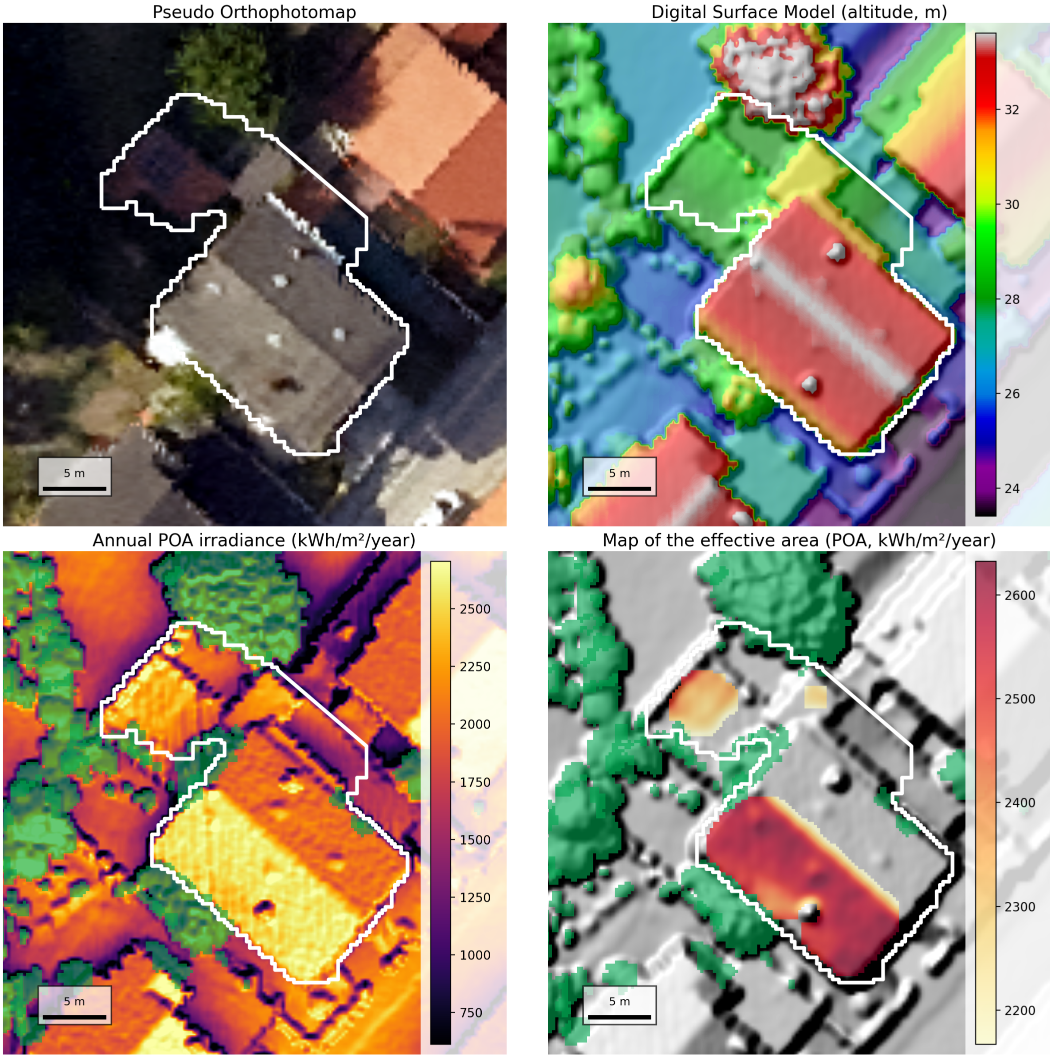
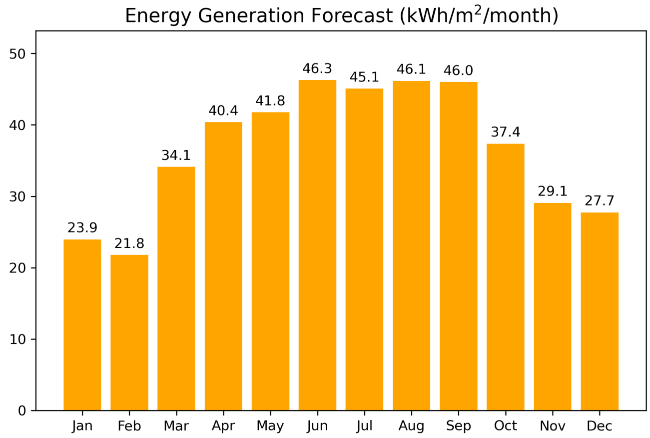


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()
Latitude: 41.70259, Longitude: -8.82443

Total Roof Area (m²)	373.18
Effective Area (m²)	137.88
Average POA Over Effective Area (kWh/m²/year)	2490
Total POA Over Effective Area (kWh/year)	343358
Average Energy Generation Forecast (kWh/m²/year)	438
Total Energy Generation Forecast (kWh/year)	60431
Average Slope Angle of the Effective Area (degrees)	17



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 73, 4900-422 Viana do Castelo, Portugal

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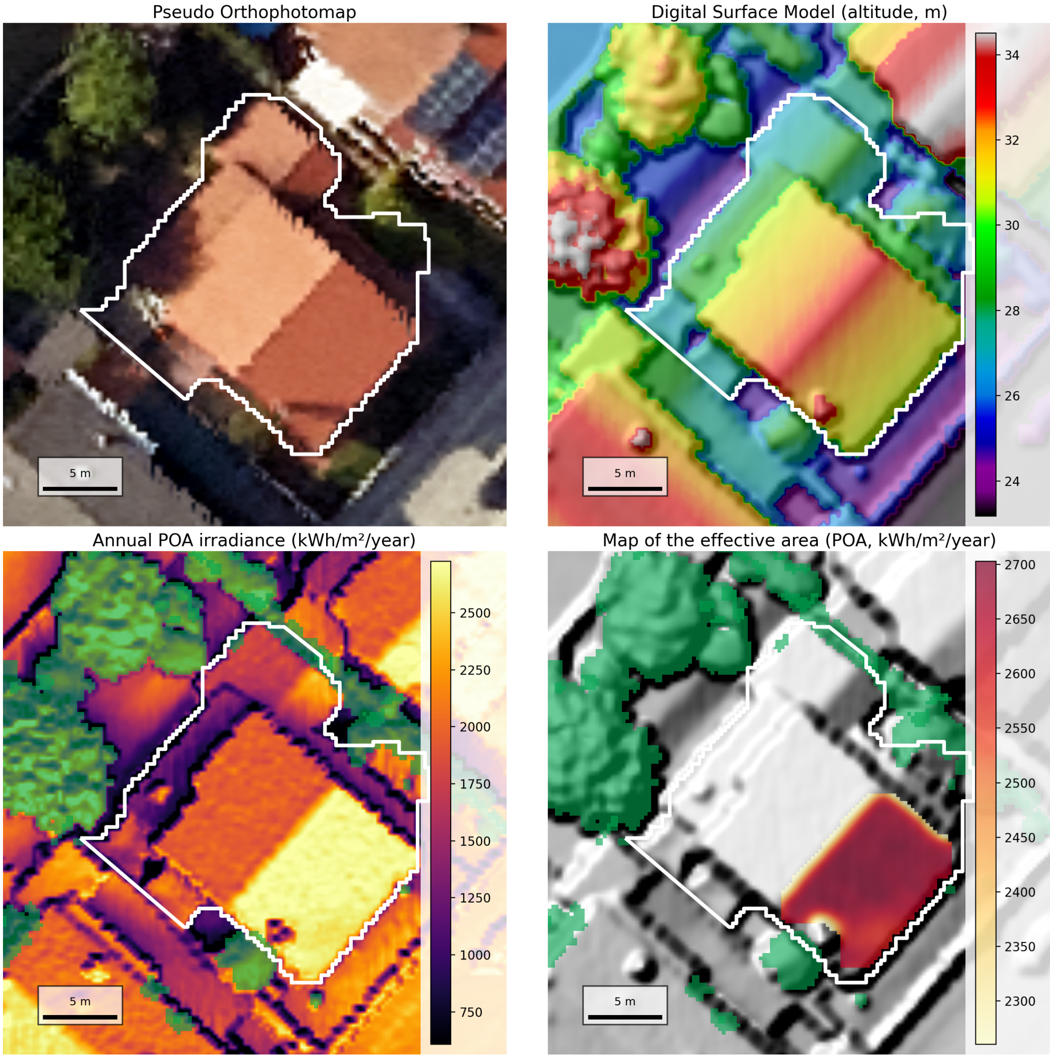
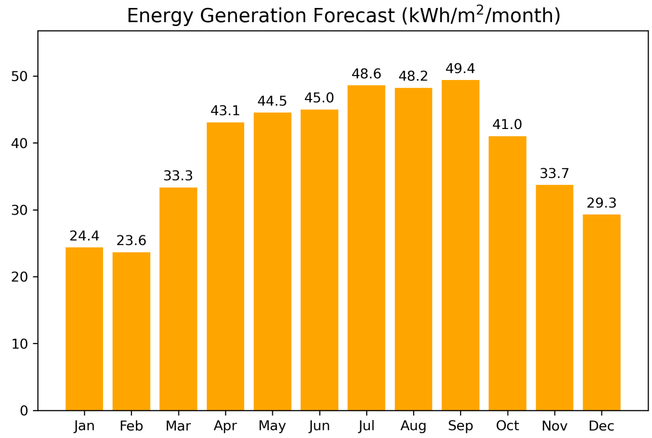


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()
Latitude: 41.7027, Longitude: -8.82426

Total Roof Area (m²)	312.12
Effective Area (m²)	79.75
Average POA Over Effective Area (kWh/m²/year)	2622
Total POA Over Effective Area (kWh/year)	209115
Average Energy Generation Forecast (kWh/m²/year)	461
Total Energy Generation Forecast (kWh/year)	36804
Average Slope Angle of the Effective Area (degrees)	17



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Doutor Francisco Cyrne de Castro 7, 4900-430 Viana do Castelo, Portugal

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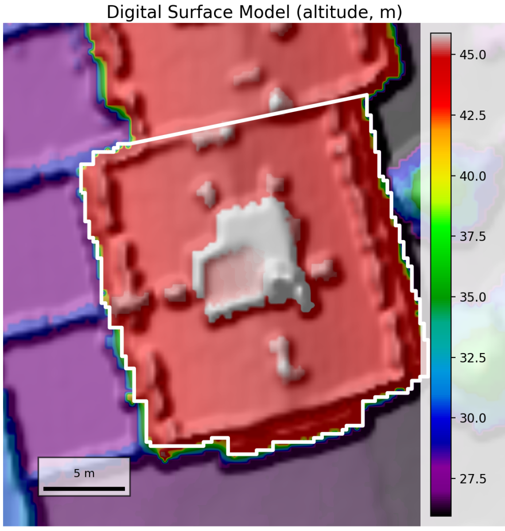
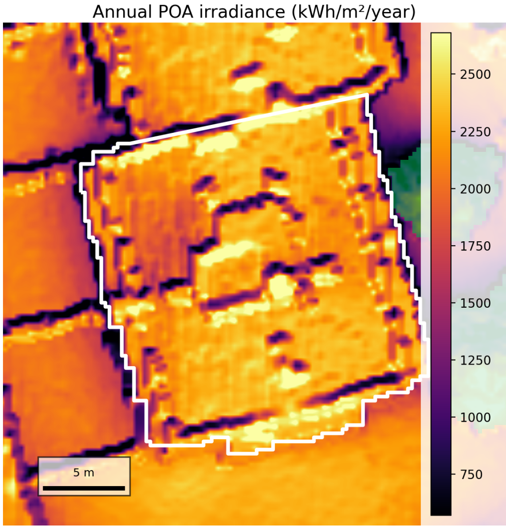
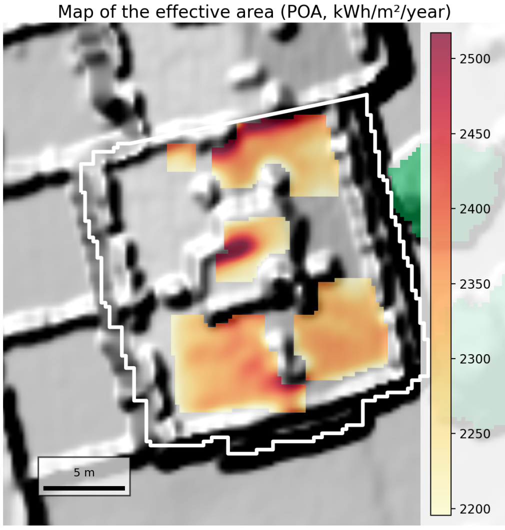




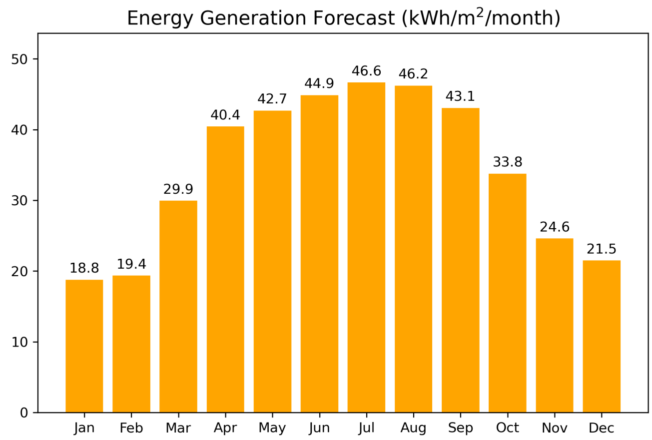


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70305, Longitude: -8.82453

Total Roof Area (m²)	345.75
Effective Area (m²)	110.75
Average POA Over Effective Area (kWh/m²/year)	2322
Total POA Over Effective Area (kWh/year)	257137
Average Energy Generation Forecast (kWh/m²/year)	409
Total Energy Generation Forecast (kWh/year)	45256
Average Slope Angle of the Effective Area (degrees)	15



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Doutor Francisco Cyrne de Castro 21, 4900-430 Viana do Castelo, Portugal

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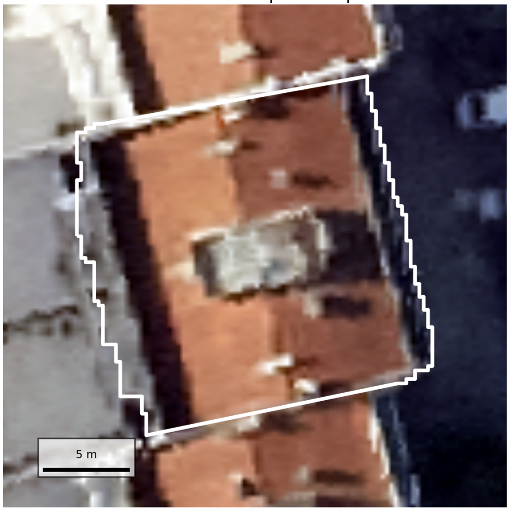
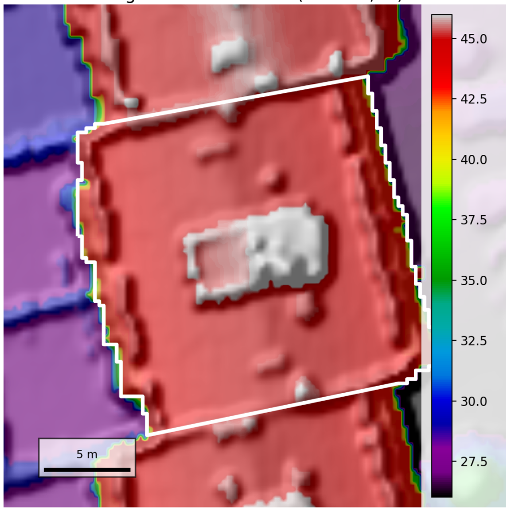
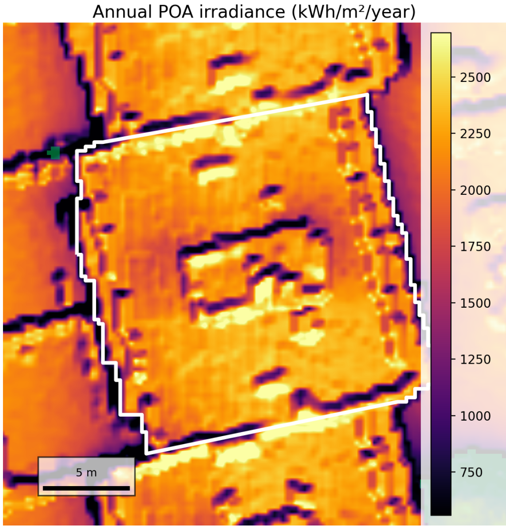
Pseudo Orthophotomap



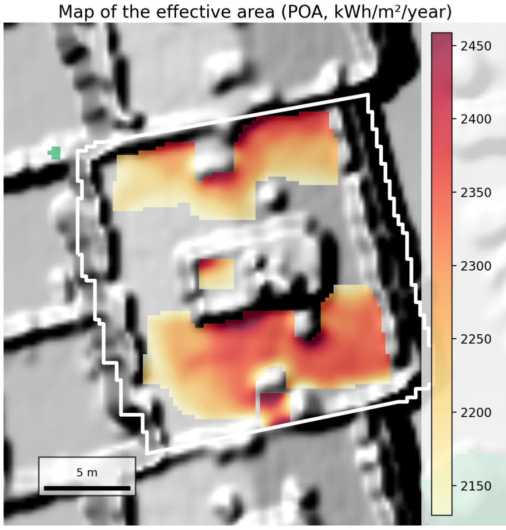
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)

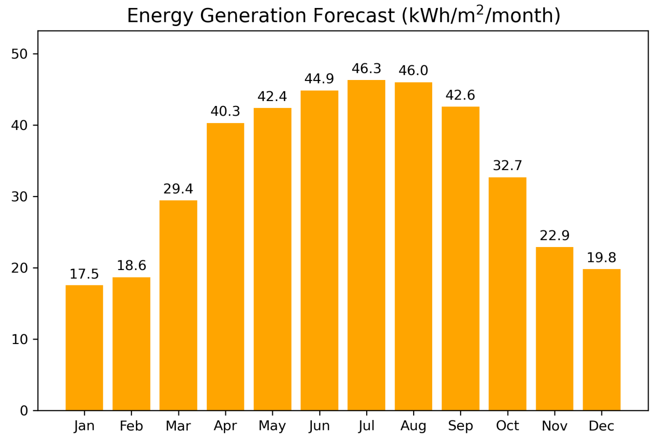


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

Link to Google Maps

Latitude: 41.70322, Longitude: -8.82455

Total Roof Area (m²)	319.41
Effective Area (m²)	120.81
Average POA Over Effective Area (kWh/m²/year)	2279
Total POA Over Effective Area (kWh/year)	275272
Average Energy Generation Forecast (kWh/m²/year)	401
Total Energy Generation Forecast (kWh/year)	48448
Average Slope Angle of the Effective Area (degrees)	16



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Doutor Francisco Cyrne de Castro 18, 4900-430 Viana do Castelo, Portugal

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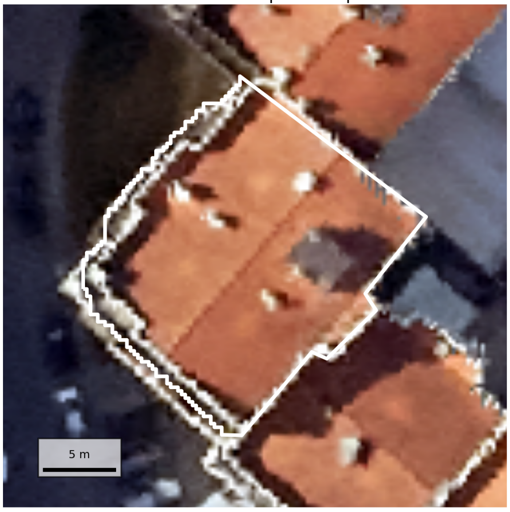
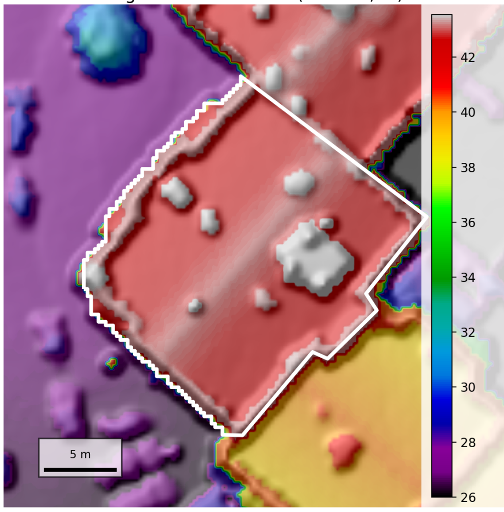
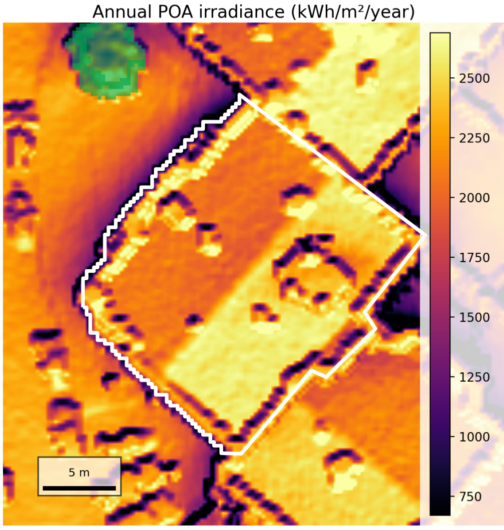
Pseudo Orthophotomap



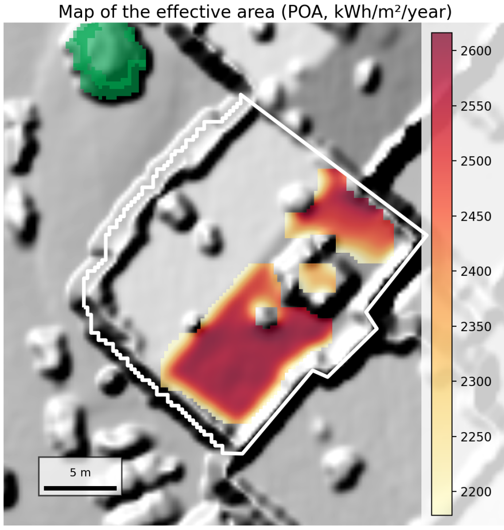
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



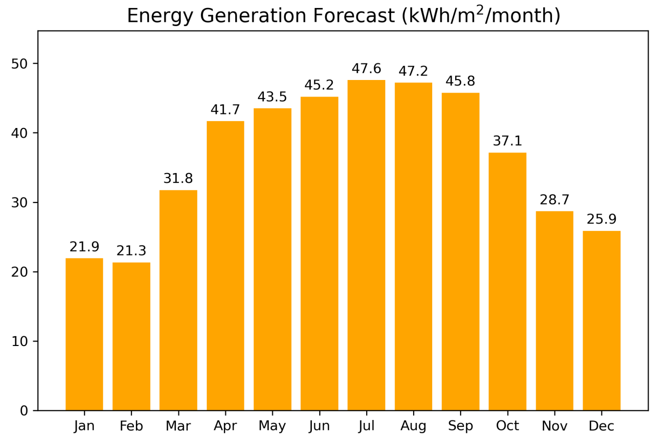
Map of the effective area (POA, kWh/m²/year)



The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]
Latitude: 41.70343, Longitude: -8.82416

Total Roof Area (m²)	325.57
Effective Area (m²)	101.38
Average POA Over Effective Area (kWh/m²/year)	2465
Total POA Over Effective Area (kWh/year)	249900
Average Energy Generation Forecast (kWh/m²/year)	434
Total Energy Generation Forecast (kWh/year)	43982
Average Slope Angle of the Effective Area (degrees)	12



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Doutor Francisco Cyrne de Castro 6, 4900-430 Viana do Castelo, Portugal

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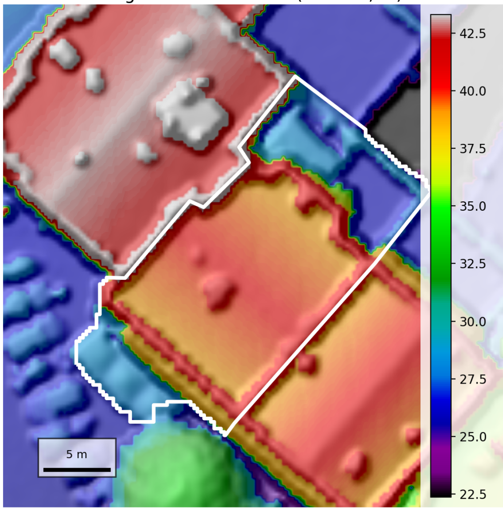
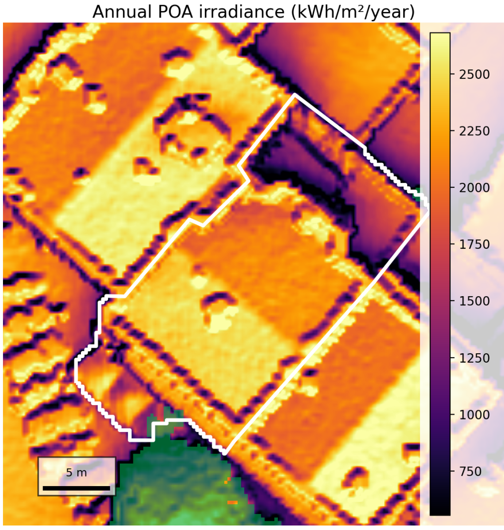
Pseudo Orthophotomap

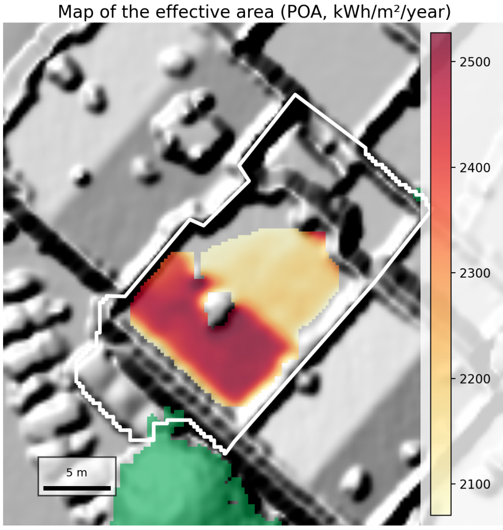
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)

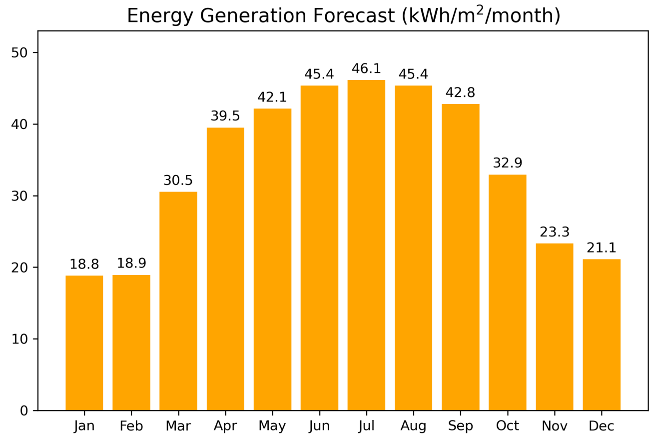


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70335, Longitude: -8.82402

Total Roof Area (m²)	338.73
Effective Area (m²)	129.06
Average POA Over Effective Area (kWh/m²/year)	2307
Total POA Over Effective Area (kWh/year)	297716
Average Energy Generation Forecast (kWh/m²/year)	406
Total Energy Generation Forecast (kWh/year)	52398
Average Slope Angle of the Effective Area (degrees)	13



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Doutor Francisco Cyrne de Castro 123, 4900-430 Viana do Castelo, Portugal

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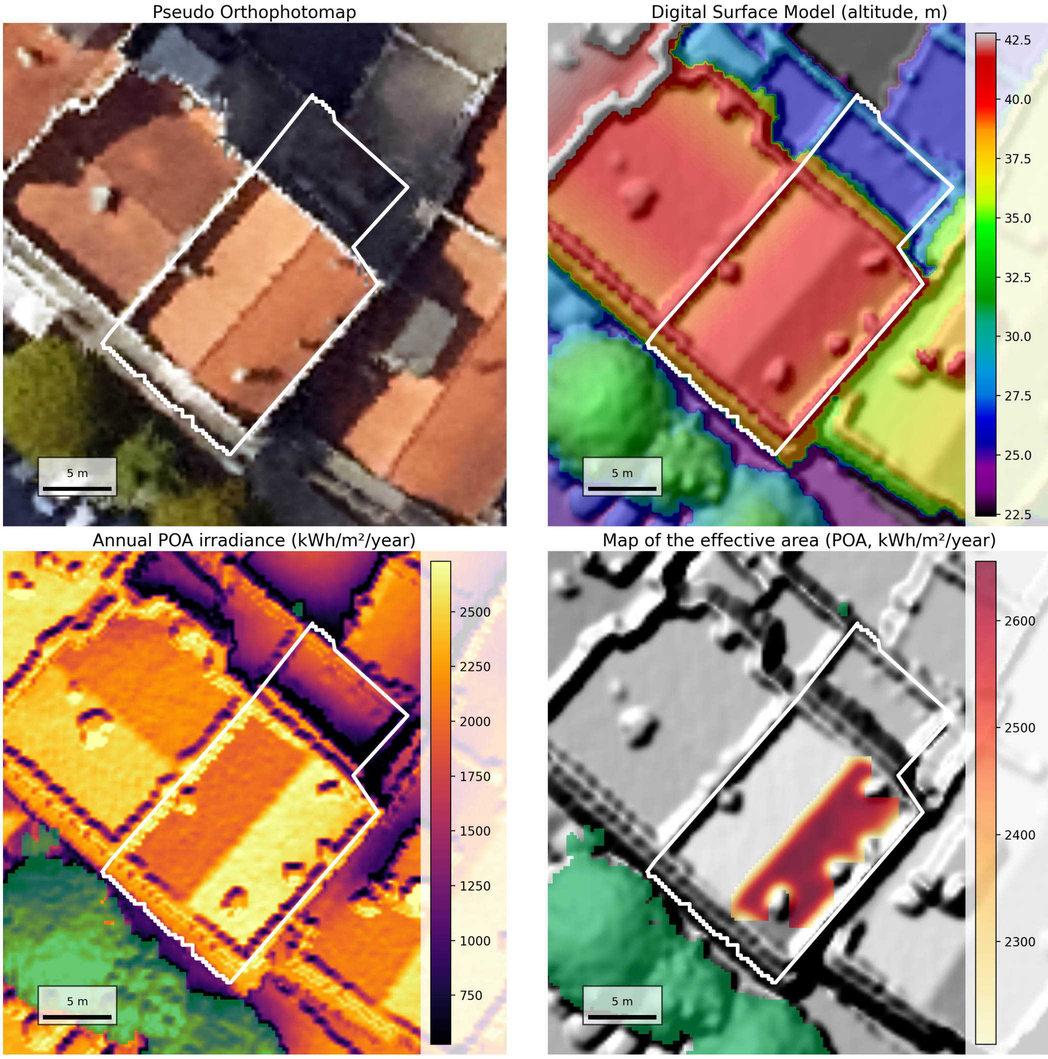
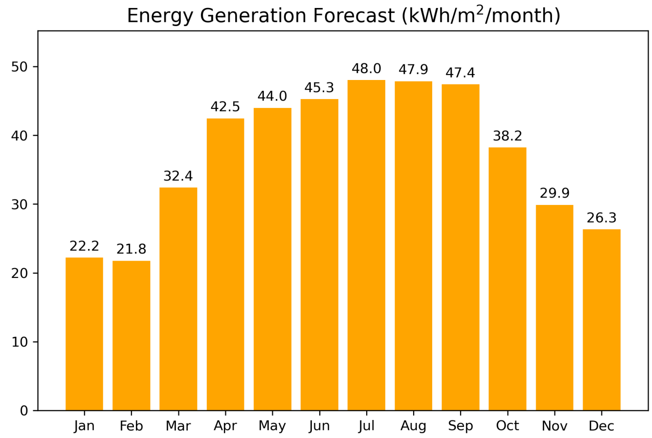


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()

Latitude: 41.70327, Longitude: -8.82392

Total Roof Area (m²)	271.57
Effective Area (m²)	69.0
Average POA Over Effective Area (kWh/m²/year)	2515
Total POA Over Effective Area (kWh/year)	173527
Average Energy Generation Forecast (kWh/m²/year)	443
Total Energy Generation Forecast (kWh/year)	30541
Average Slope Angle of the Effective Area (degrees)	16



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 137, 4900-422 Viana do Castelo, Portugal

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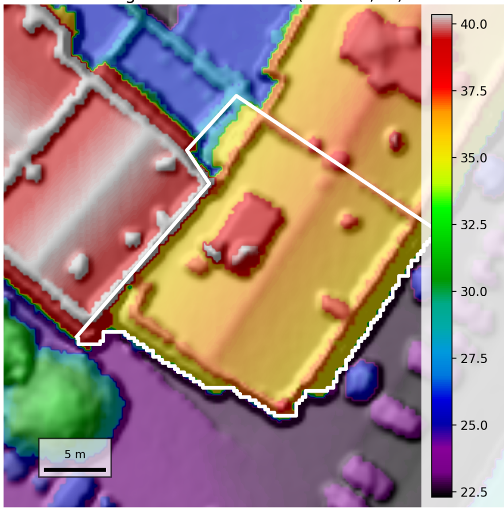
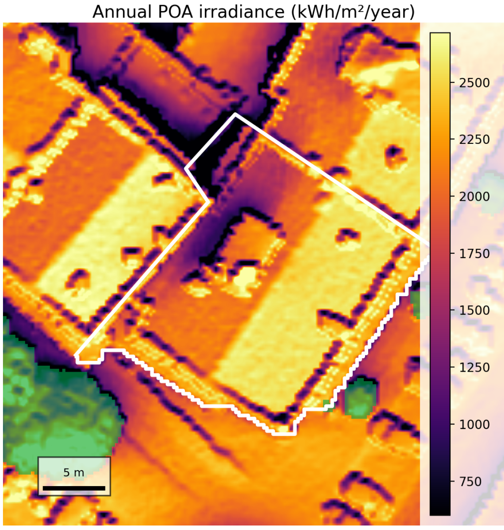
Pseudo Orthophotomap

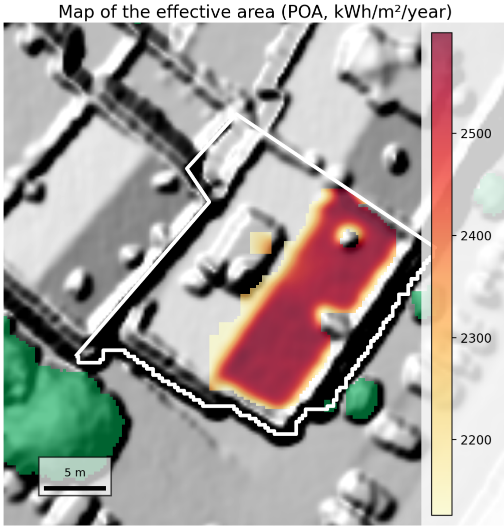
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)



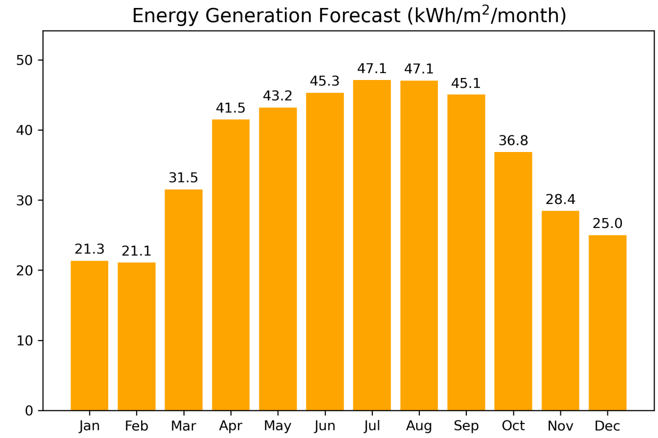
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70321, Longitude: -8.82376

Total Roof Area (m²)	377.51
Effective Area (m²)	138.69
Average POA Over Effective Area (kWh/m²/year)	2458
Total POA Over Effective Area (kWh/year)	340906
Average Energy Generation Forecast (kWh/m²/year)	433
Total Energy Generation Forecast (kWh/year)	59999
Average Slope Angle of the Effective Area (degrees)	13

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 147, 4900-422 Viana do Castelo, Portugal

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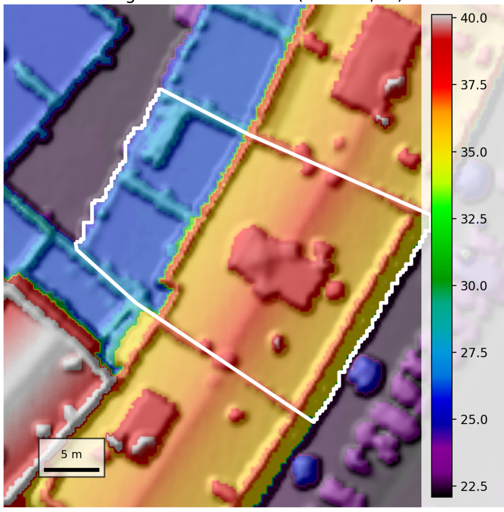
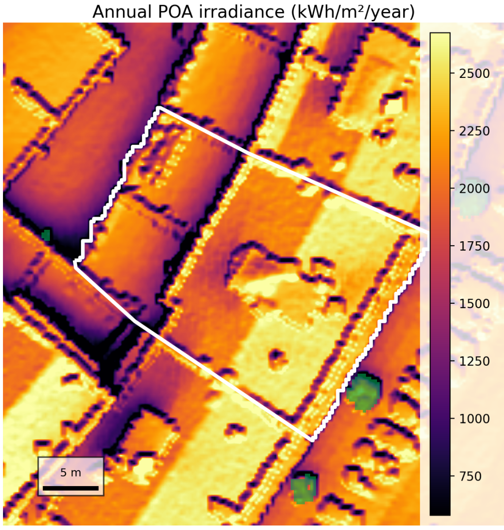
Pseudo Orthophotomap

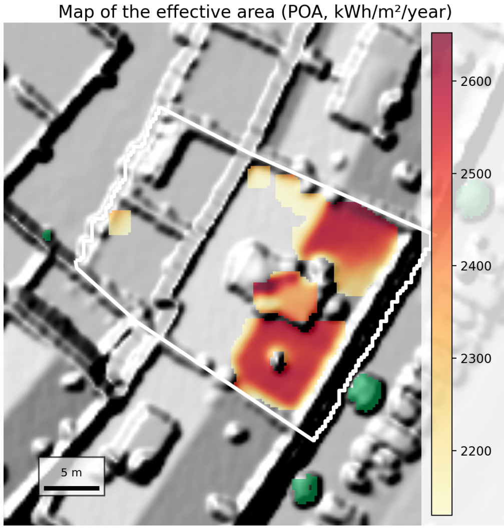
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



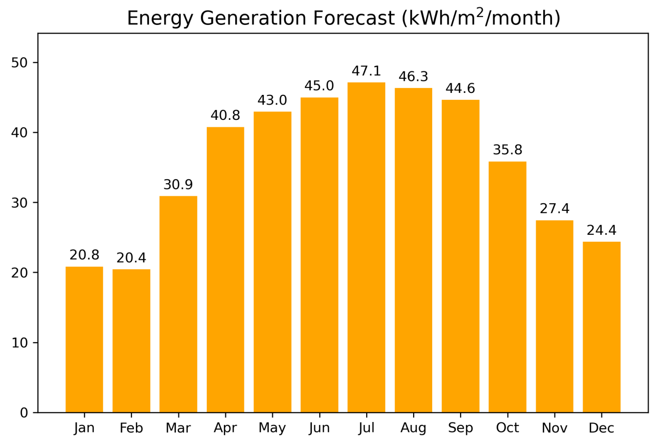
Map of the effective area (POA, kWh/m²/year)



The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]
Latitude: 41.70336, Longitude: -8.82368

Total Roof Area (m²)	512.93
Effective Area (m²)	150.81
Average POA Over Effective Area (kWh/m²/year)	2417
Total POA Over Effective Area (kWh/year)	364505
Average Energy Generation Forecast (kWh/m²/year)	425
Total Energy Generation Forecast (kWh/year)	64153
Average Slope Angle of the Effective Area (degrees)	14



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Camilo Castelo Branco 689, 4900-437 Viana do Castelo, Portugal

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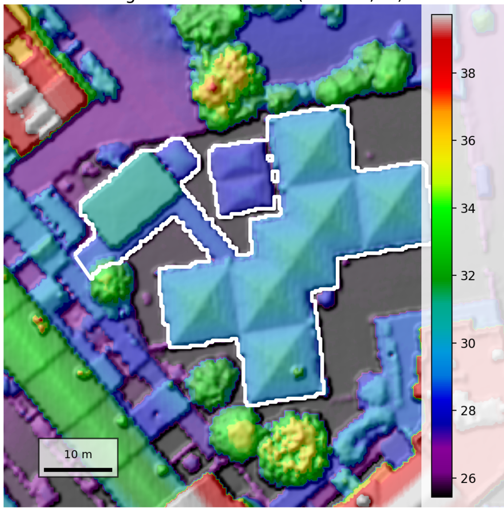
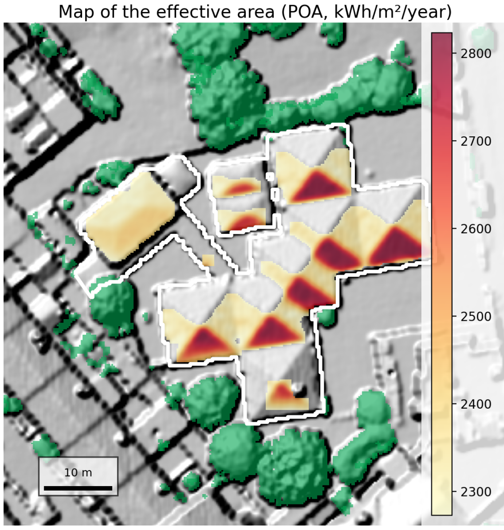
Pseudo Orthophotomap

Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)

Map of the effective area (POA, kWh/m²/year)



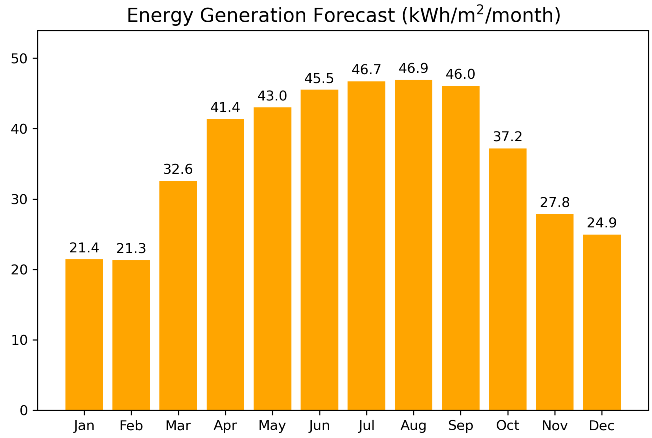
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70219, Longitude: -8.82548

Total Roof Area (m²)	1103.72
Effective Area (m²)	540.38
Average POA Over Effective Area (kWh/m²/year)	2456
Total POA Over Effective Area (kWh/year)	1327065
Average Energy Generation Forecast (kWh/m²/year)	432
Total Energy Generation Forecast (kWh/year)	233563
Average Slope Angle of the Effective Area (degrees)	17

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Camilo Castelo Branco 643, 4900-437 Viana do Castelo, Portugal

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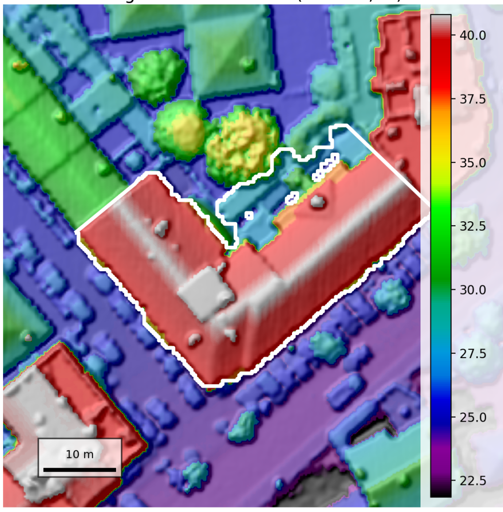
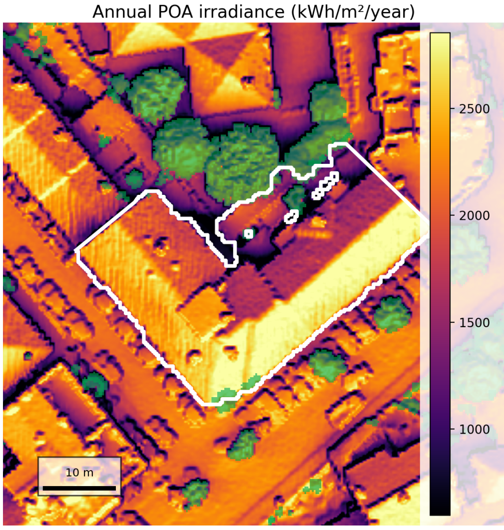
Pseudo Orthophotomap

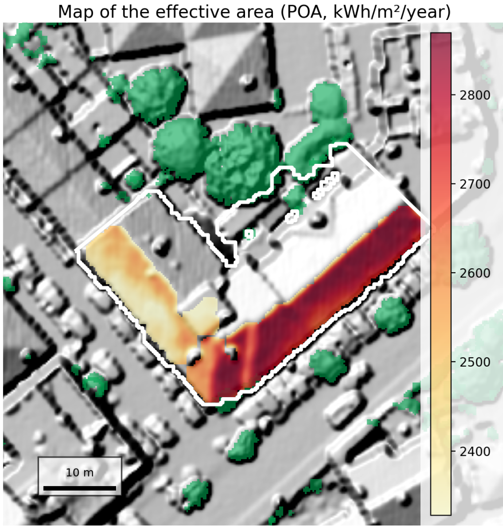
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)



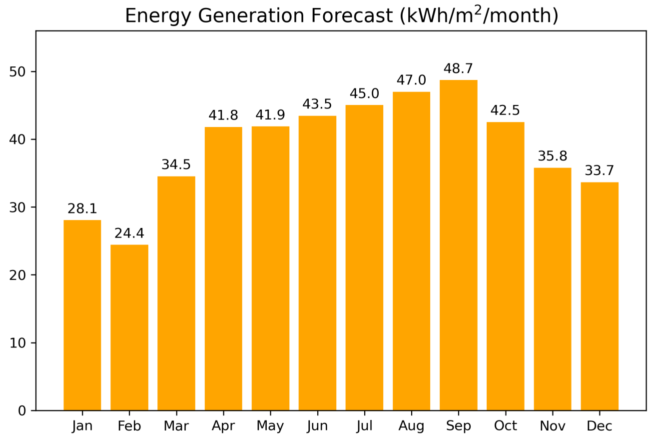
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()

Latitude: 41.7018, Longitude: -8.82546

Total Roof Area (m²)	882.63
Effective Area (m²)	376.62
Average POA Over Effective Area (kWh/m²/year)	2642
Total POA Over Effective Area (kWh/year)	995087
Average Energy Generation Forecast (kWh/m²/year)	465
Total Energy Generation Forecast (kWh/year)	175135
Average Slope Angle of the Effective Area (degrees)	25

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Conde Dona Aurora 15, 4900 Viana do Castelo, Portugal

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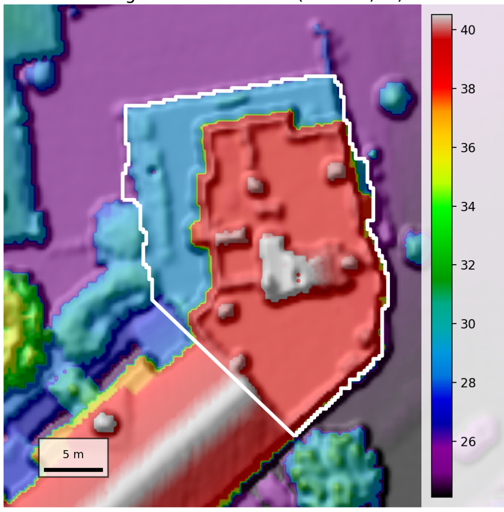
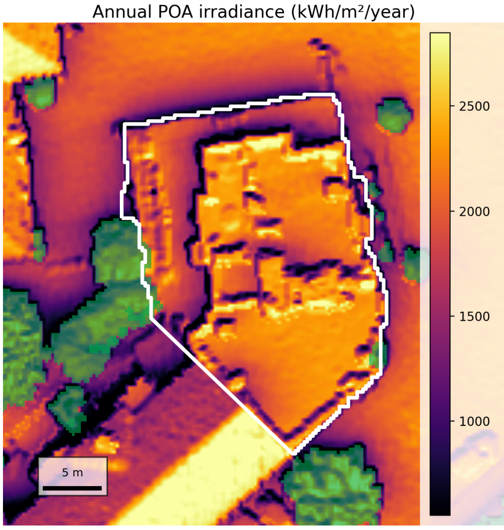
Pseudo Orthophotomap

Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



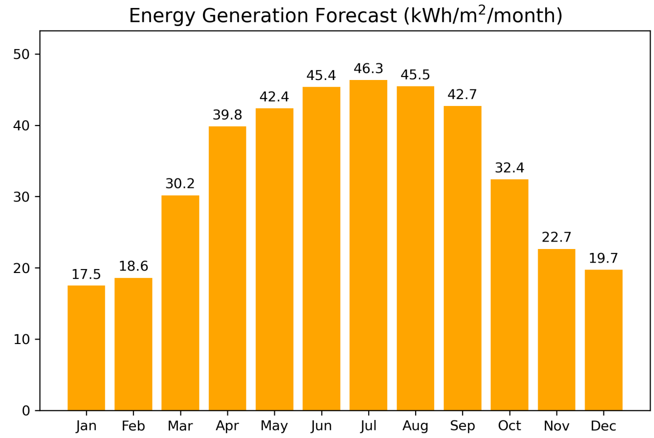
Map of the effective area (POA, kWh/m²/year)

The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()
Latitude: 41.702, Longitude: -8.82518

Total Roof Area (m²)	481.0
Effective Area (m²)	152.56
Average POA Over Effective Area (kWh/m²/year)	2278
Total POA Over Effective Area (kWh/year)	347577
Average Energy Generation Forecast (kWh/m²/year)	401
Total Energy Generation Forecast (kWh/year)	61174
Average Slope Angle of the Effective Area (degrees)	7

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Doutor Ribeiro Silva 49, 4900-454 Viana do Castelo, Portugal

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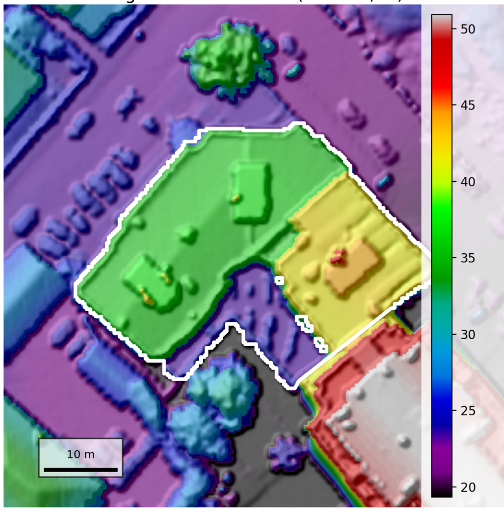
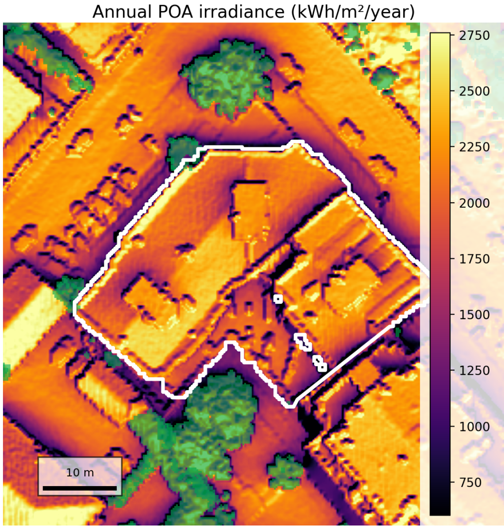
Pseudo Orthophotomap

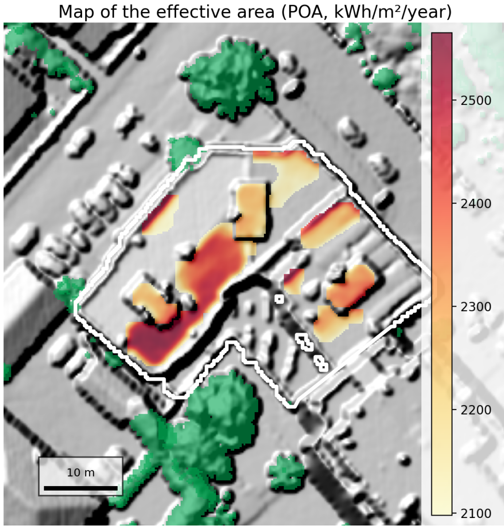
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)



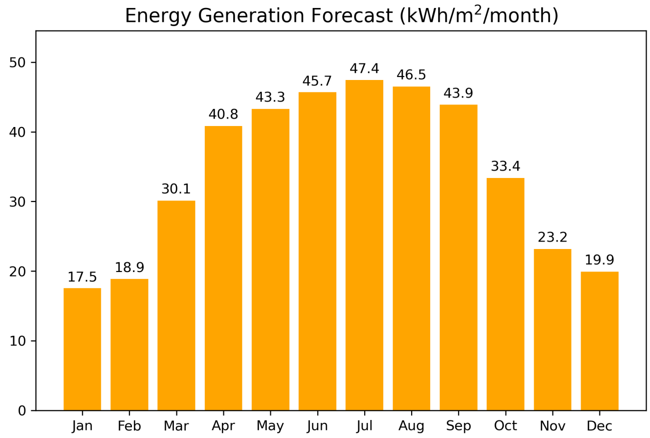
The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]

Latitude: 41.70246, Longitude: -8.82377

Total Roof Area (m²)	1077.82
Effective Area (m²)	301.31
Average POA Over Effective Area (kWh/m²/year)	2317
Total POA Over Effective Area (kWh/year)	698066
Average Energy Generation Forecast (kWh/m²/year)	408
Total Energy Generation Forecast (kWh/year)	122860
Average Slope Angle of the Effective Area (degrees)	9

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Ramalho Ortigão 196, 4900-422 Viana do Castelo, Portugal

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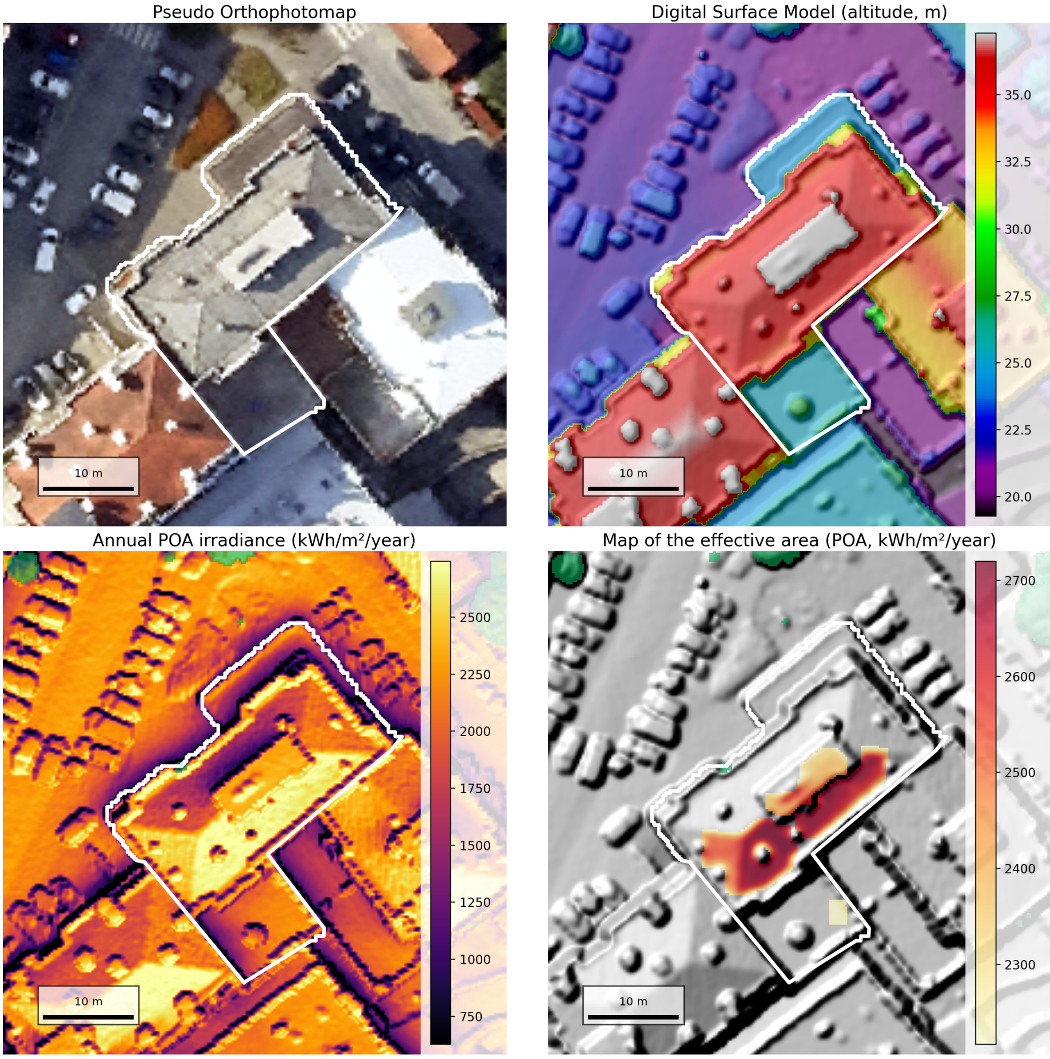
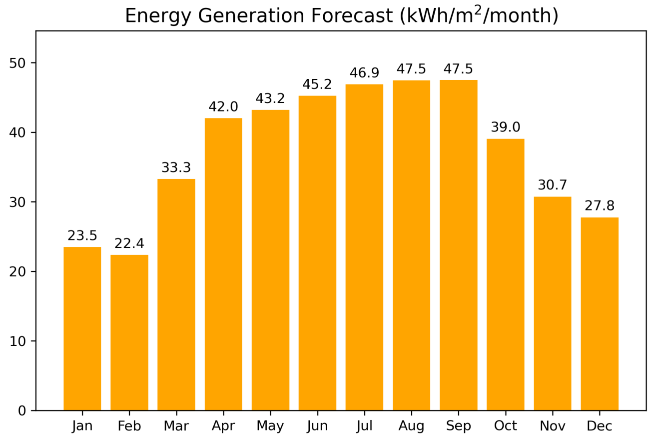


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()
Latitude: 41.70344, Longitude: -8.82303

Total Roof Area (m²)	599.56
Effective Area (m²)	137.44
Average POA Over Effective Area (kWh/m²/year)	2522
Total POA Over Effective Area (kWh/year)	346569
Average Energy Generation Forecast (kWh/m²/year)	444
Total Energy Generation Forecast (kWh/year)	60996
Average Slope Angle of the Effective Area (degrees)	15



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

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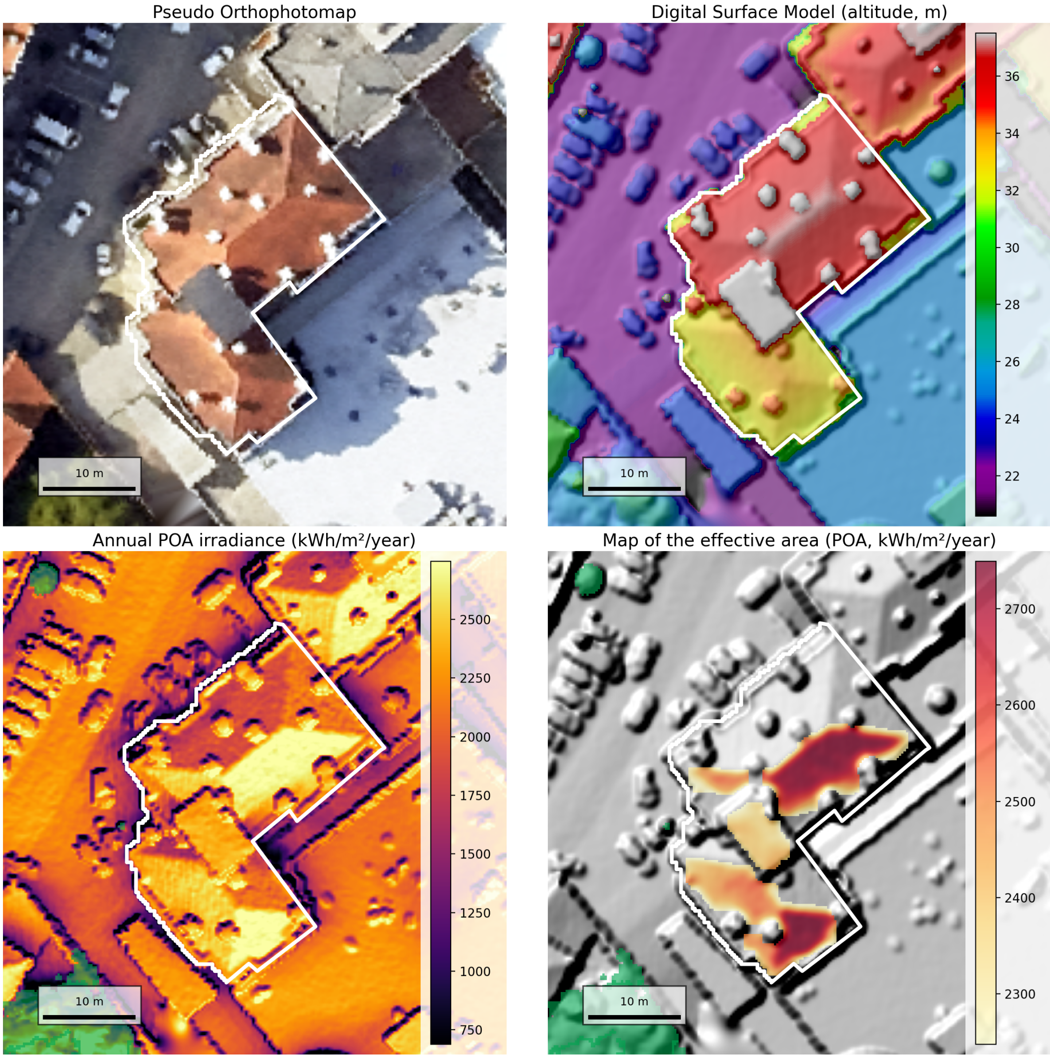
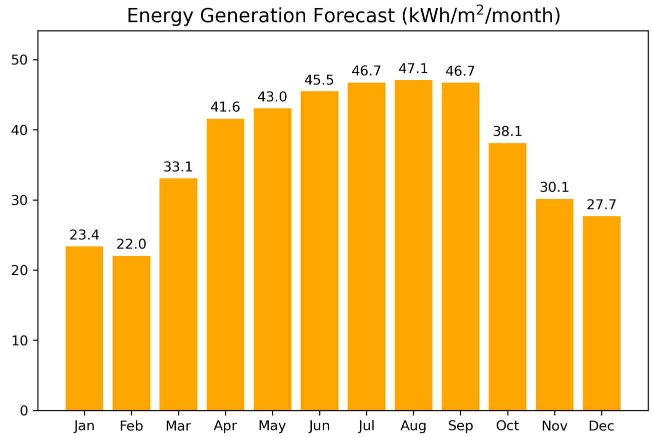


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

[Link to Google Maps]()

Latitude: 41.70321, Longitude: -8.82319

Total Roof Area (m²)	584.84
Effective Area (m²)	226.0
Average POA Over Effective Area (kWh/m²/year)	2509
Total POA Over Effective Area (kWh/year)	567122
Average Energy Generation Forecast (kWh/m²/year)	442
Total Energy Generation Forecast (kWh/year)	99814
Average Slope Angle of the Effective Area (degrees)	16



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

Rua Salvato Feijó 3A, 4900-415 Viana do Castelo, Portugal

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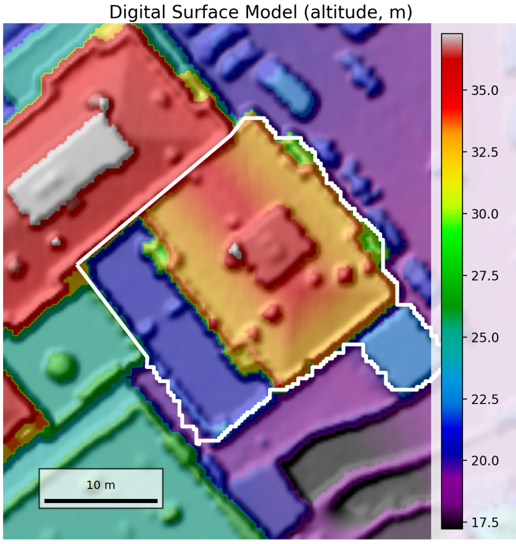
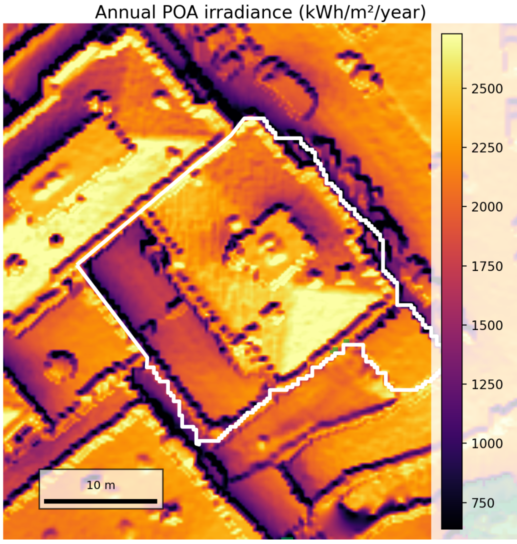
Pseudo Orthophotomap

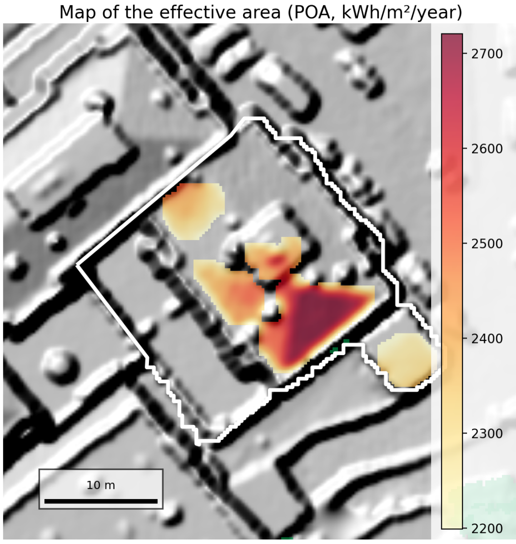
Digital Surface Model (altitude, m)



Annual POA irradiance (kWh/m²/year)



Map of the effective area (POA, kWh/m²/year)

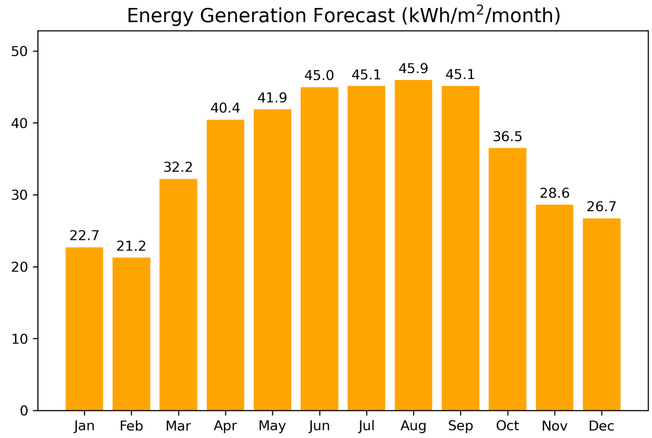


The result of determining the effective area may not be accurate if PV panels are already installed on the roof.

Link to Google Maps
Latitude: 41.70338, Longitude: -8.82279

Total Roof Area (m²)	491.98
Effective Area (m²)	133.44
Average POA Over Effective Area (kWh/m²/year)	2434
Total POA Over Effective Area (kWh/year)	324812
Average Energy Generation Forecast (kWh/m²/year)	428
Total Energy Generation Forecast (kWh/year)	57167
Average Slope Angle of the Effective Area (degrees)	15

Energy Generation Forecast (kWh/m^2/month)



The Energy Generation Forecast is calculated as POA irradiation multiplied by the PV module efficiency (22%) and the system Performance Ratio (0.80), for the respective time period.

PVGIS meteorological data for 2024 were used to calculate the POA and forecast energy generation.

⚠ IMPORTANT LEGAL NOTICE

This document constitutes a preliminary analytical study based on remote sensing data and modeling techniques.

It is provided for informational and illustrative purposes only and does not constitute:

- an electrical engineering design,
- a photovoltaic system project,
- a technical installation plan,
- a structural assessment,
- a grid-connection study,
- or any document required under applicable national or European legislation for the authorization, permitting, or installation of a photovoltaic system.

No physical site inspection, structural verification, electrical compliance analysis, or regulatory approval assessment has been performed.

The results are estimates derived from geospatial datasets and modeling assumptions. Actual technical feasibility, system performance, investment costs, regulatory compliance, and return on investment may differ and must be verified by licensed engineers and qualified installers prior to implementation.

Sun Potential 3D assumes no liability for decisions made based solely on this analytical report without independent professional verification.