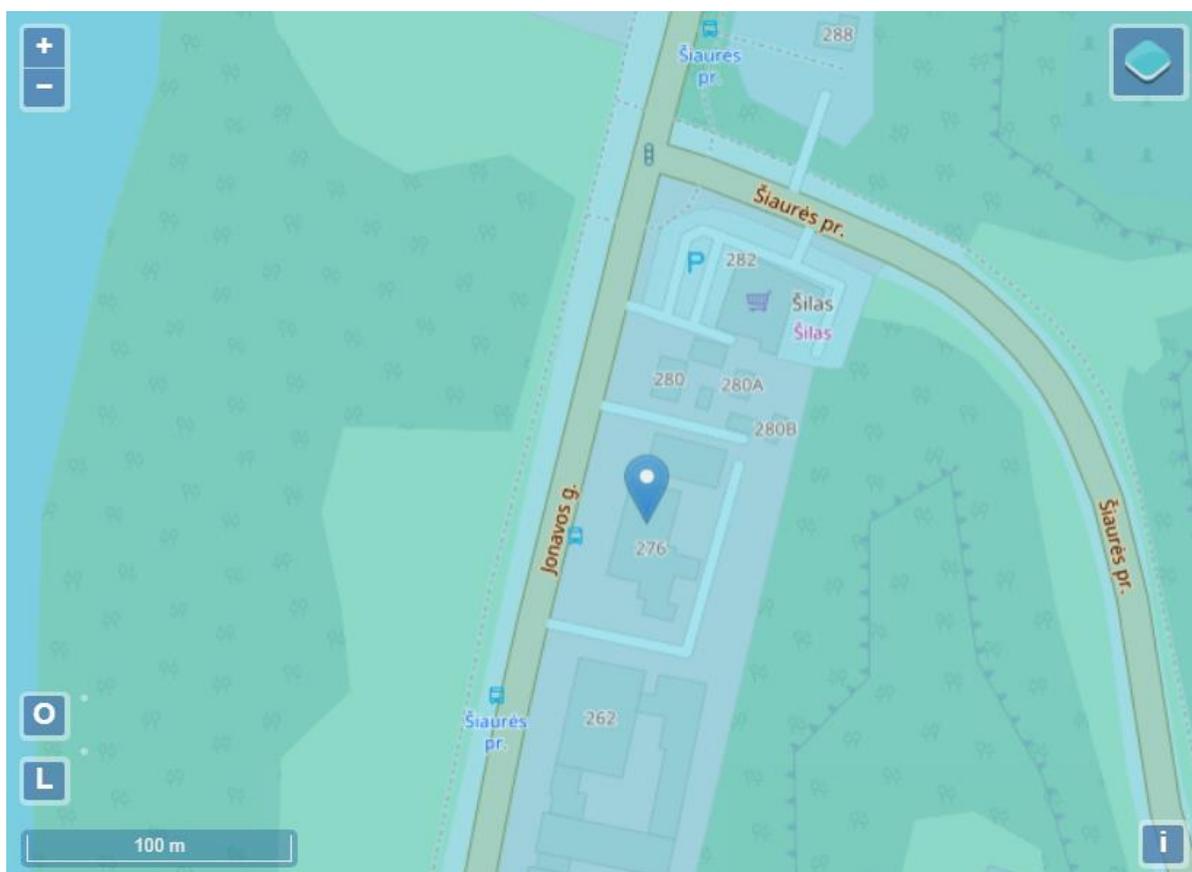


SAULĒS ELEKTRINĒS ADRESU JONAVOS G. 276

MODELIAVIMO ATASKAITA

ElektrinĒs numatyta galia	64 kWp
Vieno modulio galia	0,395 kWp
Moduliu skaiĉius	162 vnt.
FaktinĒ elektrinĒs galia	63,99 kWp
Skaiĉiuojamujų metų bendroji saulĒs spinduliuotĒ	1029,06 kWh/m ²



Performance of grid-connected PV

PVGIS-5 estimates of solar electricity generation:

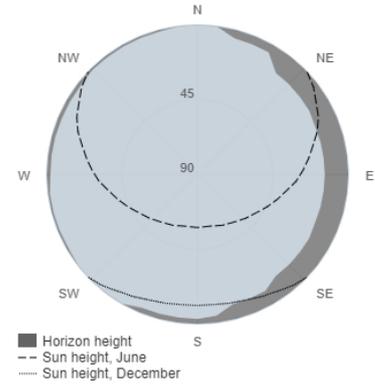
Provided inputs:

Latitude/Longitude: 54.929,23.917
 Horizon: Calculated
 Database used: PVGIS-ERA5
 PV technology: Crystalline silicon
 PV installed: 63.99 kWp
 System loss: 10 %

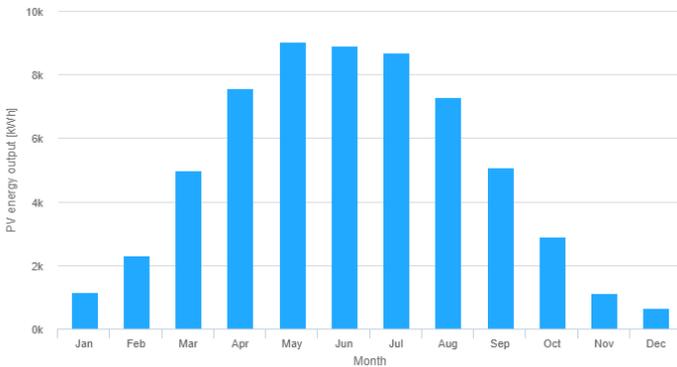
Simulation outputs

Slope angle: 10 °
 Azimuth angle: 5 °
 Yearly PV energy production: 59720.39 kWh
 Yearly in-plane irradiation: 1117.76 kWh/m²
 Year-to-year variability: 2152.33 kWh
 Changes in output due to:
 Angle of incidence: -4.04 %
 Spectral effects: 1.54 %
 Temperature and low irradiance: -4.79 %
 Total loss: -16.5 %

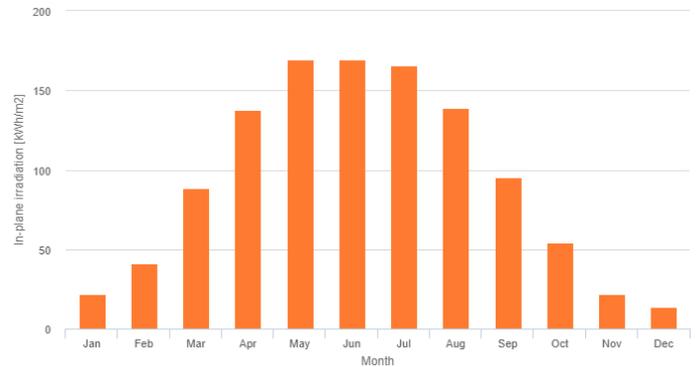
Outline of horizon at chosen location:



Monthly energy output from fix-angle PV system:



Monthly in-plane irradiation for fixed-angle:



Monthly PV energy and solar irradiation

Month	E_m	H(i)_m	SD_m
January	1167.0	21.8	123.3
February	2305.1	41.0	285.9
March	4995.3	88.8	647.7
April	7572.0	137.8	835.0
May	9043.5	169.3	735.0
June	8906.3	169.6	810.3
July	8697.7	165.9	706.9
August	7277.4	139.0	730.9
September	5085.0	95.2	554.8
October	2911.8	54.0	531.8
November	1109.8	21.6	181.5
December	649.5	13.8	91.8

E_m: Average monthly electricity production from the defined system [kWh].

H(i)_m: Average monthly sum of global irradiation per square meter received by the modules of the given system [kWh/m²].

SD_m: Standard deviation of the monthly electricity production due to year-to-year variation [kWh].