Photovoltaic roofs in Ljubljana

Does Saudi Arabia have an off-grid photovoltaic system?
Performance evaluation of an off-grid photovoltaic system in Saudi Arabia Energy, 46 (1) (2012), pp. 451 - 458, 10.1016/j.energy.2012.08.004, ISSN 0360-5442 Sol. Energy, 45 (1) (1990), pp. 9 - 17, 10.1016/0038-092X (90)90061-G Energy production of different types and orientations of photovoltaic systems under outdoor conditions

How many meteorological stations are there in Slovenia?
In Slovenia,there are 121functioning automatic meteorological stations (MS),but only 14 of them measure global and diffuse solar radiation on horizontal surfaces (see Fig. 2: MS 1-14 are indicated in red). Fig. 2. Meteorological stations and PV systems in Slovenia.

Which meteorological station is the highest in Slovenia?
Based on data shown in Table 1,the MS 7is the highest meteorological station in Slovenia,while MS 9 is the meteorological station in the capital city (Ljubljana). In both examples,the reason for the reduction of global solar radiation is the convective cloudiness. 4.2. Final yield,performance ratio and capacity utilization factor

The 11th Slovenian Photovoltaic Conference SLO-PV 2025 March 23 2025. The Laboratory for Photovoltaics and Optoelectronics and the Slovenian Technological Platform for Photovoltaics are organizing the 11 th Slovenian Photovoltaic Conference SLO-PV 2025, which will take place on Wednesday, 18 June 2025 at the Faculty of Electrical Engineering, Trzaska cesta 25 in Ljubljana.

The solar power project is for the roofs of existing and new buildings. It is estimated at just over EUR 5 million. The photovoltaic facilities should provide 3.7 GWh per year or almost two times more than the electricity consumption at the barracks, according to the regulation. They are scheduled to be installed by 2024.

Albania is preparing a public tender for solar power projects at two former military airports, while Slovenia intends to enter into a public-private partnership for barracks construction in Ljubljana. Albania"s State Investment Corporation, AIC, has announced its intention to establish two photovoltaic parks with a maximum capacity of 34 megawatts...

Share Researchers from Slovenia"s University of Ljubljana have developed a novel model for calculating energy fluxes on PV green roofs. Green roofs...

Electrical energy generation via solar technology, or known also as photovoltaic (PV) technology, has been the most economical viable green resource, especially in tropical-based countries. The most notable problem revealed by conventional PV in greenhouses, however, is due to the antagonistic factor lying in both photovoltaic roofs and plants.

The article Ref. [32] mentions improvements in PV efficiency thanks to green roofs, with a range of PV efficiency improvements between 1.6% and 2.5%, as well as significant reductions in temperature. In the state-of-the-art review, a significant methodological limitation is identified, which calls into question the conclusions regarding the ...

Last year, SPAR Slovenia built the first photovoltaic plant on the roof of the distribution centre in Ljubljana. The plant covers around 16% of their electricity needs. This year, panels will be installed on the roofs of three SPAR store buildings, having an expected capacity of 8-20% of electricity needs for each store.

We will install 51 solar power plants on the roofs of public buildings, including primary schools, kindergartens, health care centres and sports and cultural facilities, with a total capacity of almost 5 MWp, and the guaranteed ...

This year, SES has invested in the construction of photovoltaic systems in the five Slovenian shopping centers, namely ALEJA, CITYPARK, and CENTER VIC in Ljubljana, ...

Nordika, Corwin"s new residential tower in Ljubljana, has been unveiled to the public. The project, which will comprise around 290 new apartments, will be part of a large-scale revitalization of the area along Masaryk Street in the city centre. ... Nordika will incorporate sustainable elements, such as green roofs, photovoltaic panels and a ...

The photovoltaic roofs with the highest daily shading gain in summer and winter are both inclined overhead at 15°, with shading gains of 47.3 W/m 2 and 42.8 W/m 2, respectively. The daily load reduction is 6.7 % and 6.1 %, respectively, and the daily shading gain gradually decreases with the increase of inclination angle. ...

Green roofs are roofs covered with a soil/plant layer and they are of great interest since they have multiple benefits such as moderation of heat island effect, temperature regulation, sound insulation, envelope protection for the building, etc [1].On the other hand, photovoltaic (PV) modules are another option for utilizing building roof since they provide environmentally ...

Resalta and Energetika Ljubljana are entering a public-private partnership with the City of Ljubljana for the installation of 5 MW in peak solar power capacity with an estimated annual output of 5.2 GW. The Green Energy ...

The number of photovoltaic surfaces installed on SES shopping malls is constantly increasing. This year, SES has invested in the construction of photovoltaic systems in the five Slovenian shopping centres, namely Aleja, Citypark and Center Vic in Ljubljana, Citycenter Celje and Europark Maribor. The systems, boasting a total output of 4,300 kilowatts, have been in ...

Photo reportage of the installation of the AURORA solar power plant The AURORA solar power plant is currently undergoing installation on the rooftop areas of the Faculty of Electrical Engineering, which is one of the 26 members of the University of Ljubljana. The AURORA solar power plant is broadly divided into four main sections or [...]

Integrating both roof insulation and PV production simultaneously has advantages [30].A more synergistic method to approach building retrofit is still missing and many interventions are implemented without a comprehensive knowledge of the potential savings and costs [31] stalling PV without making thermal improvement of roofs may be counterproductive.

4th Project Meeting: SloveniaWe had a wonderful and constructive time at the 4th Green Roofs Project Meeting, which took place in Ljubljana, Slovenia, on September 25-26, 2024. The project is progressing very promisingly! It was an honour to

The photovoltaic electricity output was increased by up to 2.27 % compared to the traditional bare roof. The study also found that green roofs with photovoltaic systems reduced cooling energy consumption and CO2 emissions by 19.12 % ...

As described in the previous article AURORA Solar Power Plant at the University of Ljubljana in Progress Part 1, photovoltaic panels were installed on the D and C roofs of the Faculty of Electrical Engineering at the University of Ljubljana in July.. In the autumn, the Faculty of Electrical Engineering oversaw the internal installation of cable ducts, which will enable the ...

Differences between measured and simulated values of solar radiation were analysed. The performance analyses were carried out for 3326 PV systems in Slovenia. The ...

This is the first publication of its kind in Slovenia, aimed at highlighting the importance of a comprehensive approach to fire risks associated with rooftop photovoltaic (PV) ...

Integrated solar roof tiles, often referred to as solar shingles, are roofing materials embedded with photovoltaic (PV) cells that capture and convert sunlight into electricity. Unlike traditional solar panels that are mounted on top of a roof, solar roof tiles replace the traditional roofing material itself, offering a seamless design that ...

Researchers in China have investigated the effect of the overhead height and tilt angle on thermal and energy-saving performance of photovoltaic roof and have found that the comprehensive energy ...

Ljubljana, Slovenia - Slovenia has successfully completed a 15kW solar power project using the T20 tile roof hook system, reinforcing its commitment to clean energy ...

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