

Slovenia Tunnel Using Photovoltaic Container Hybrid





Overview

Will Slovenia build a solar plant on the A1 highway?

Slovenian solar developer Soške Elektrarne Nova Gorica (Seng) and the country's motorway operator, Dars, plan to build several solar plants along the A1 highway, which connects major Slovenian cities such as Maribor, Slovensko Bistrica, Celje, Ljubljana, Vrhnika, Logatec, Postojna and Koper.

Should hybrid PV be a cornerstone of Europe's integrated energy strategy?

As Europe strives to enhance energy security, reduce system costs, and accelerate decarbonization, unlocking the full potential of hybrid PV systems must become a cornerstone of our integrated energy strategy, the report states.

Are hybrid PV systems a good investment for Europe?

SolarPower Europe's report entitled "Embracing the Benefits of Hybrid PV Systems" – published in early 2025- examines the potential of hybrid renewable projects co-located with storage or other generation that Europe could leverage to a higher degree. The value proposition of hybrid PV systems extends well beyond simple capacity addition.

Will Slovenia add 258 MW of solar capacity in 2022?

Slovenia could potentially add 258 MW of new solar capacity in 2022, according to new figures from the Slovenian Photovoltaic Association (SPA). The country installed 194 MW of solar in the first three quarters of 2022, according to its distribution system operator, SODO. Almost all capacity was added in the residential sector.



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Using HOMER for optimization analysis, in this study, the hybrid energy system of the case tunnel was examined, with all configurations being a combination of solar ...

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This paper studies the integration of semitransparent photovoltaic (STPV) cells into sunscreen structures installed above tunnel entrances to reduce tunnel lighting requirements and offset ...

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HESS opens Slovenia's biggest solar power plant as part of ...

A hybrid system is about connecting different renewable energy sources and at the same time using them in the most efficient way, Barbic said at the opening. HESS invested ...

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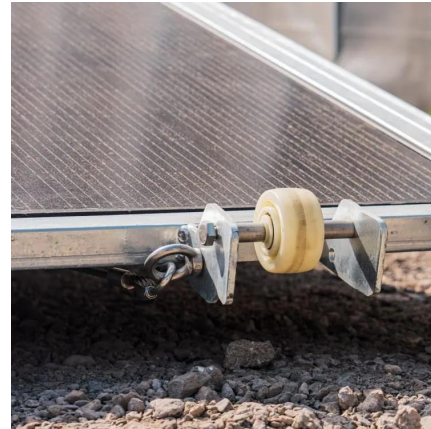


[Slovenia to deploy solar plants along highways](#)

Soske Elektrarne Nova Gorica is working with Slovenia highway operator Dars to build several PV arrays along Slovenia's biggest motorway.



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The firm also operates a group of small hydropower plants. If the operation of a solar power plant is integrated with a hydroelectric facility, as a hybrid power plant, it can help save water on sunny days. Slovenia ...

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This paper studies the integration of semitransparent photovoltaic (STPV) cells into sunscreen structures installed above tunnel entrances to reduce tunnel lighting requirements and offset their day-time lighting loads using ...

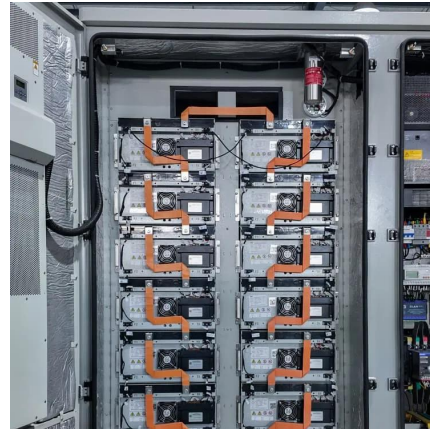
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Slovenia secures EU funding for renewable energy projects ...

Slovenia received 11.9 million euros in EU funding to support renewable energy projects, including photovoltaic systems and local energy communities, to boost electricity ...

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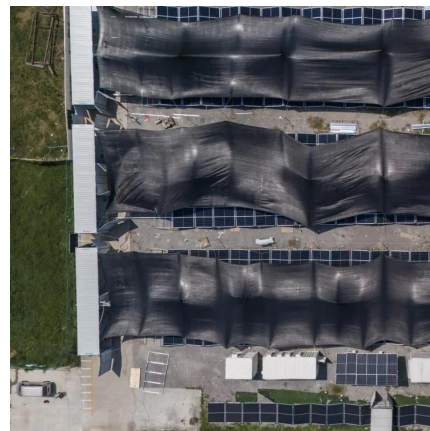
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Using HOMER, the hybrid energy system is simulated, optimized, and analyzed, studying the characteristics of the operation of the highway tunnel hybrid renewable energy ...

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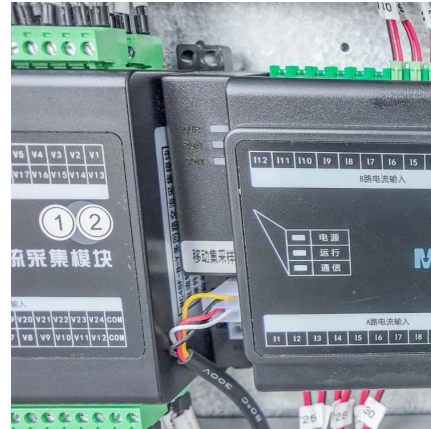
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Using HOMER, the hybrid energy system is simulated, optimized, and analyzed, studying the characteristics of the operation of the highway tunnel hybrid renewable energy system in an off-grid mode.

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