

Ignitis Renewables, an international green energy company, is expanding its operations in Latvia and is currently constructing the largest solar projects in the Baltics in Latvia. By building solar farm projects in Kuldīga, Tukums and Bauska municipalities, the company will be able to provide green energy to almost 200,000 Latvian households. "We are actively working [...]"

The development of zero-energy buildings (ZEBs) is a critical pillar for designing the sustainable cities of the future. Photovoltaics (PVs) play a significant role in the design of ZEBs, especially in cases with fully electrified buildings. The goal of this analysis was to investigate different advanced PVs with integrated cell cooling techniques that can be ...

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Buildings account for a significant proportion of total energy consumption. The integration of renewable energy sources is essential to reducing energy demand and achieve sustainable building design. The use of ...

family buildings have been developed in Latvia. Statistical data shows a stagnation in the solar thermal market in Latvia, see Fig.2. Based on the Latvian Central Statistics Bureau, the ...

The increasing integration of smart solar panel technologies, including sensors and Internet of Things capabilities, is revolutionizing the solar industry with this new solar panel technology. This integration enables superior monitoring, maintenance, and optimization of solar panel performance, leading to enhanced efficiency and effectiveness.

The largest solar panel park in Latvia will be built in the territory of the Port of Riga in Spilve meadows with a nominal capacity of at least 100MW and a planned electricity generation of at least 100,000MWh per year. ... then for the development of hydrogen technologies. Moreover, today's international manufacturers and logistics chains ...

This study examines the applications of photovoltaic and solar thermal technologies in the field of architecture, demonstrating the huge potential of solar energy in building applications.

Over 430 participants from 48 countries were welcomed to the ISES Solar World Congress 2019 in Santiago, Chile, held together with the IEA (International Energy Agency) Solar Heating and Cooling Programme (SHC) International Conference on Solar Heating and Cooling for Buildings and Industry. From 03 - 07 November, the SWC 2019 reinforced the long tradition of ...

* A complete overview of solar technologies relevant to the built environment, including solar thermal energy for heating and cooling, passive solar energy for daylighting and heating supply, and photovoltaics for electricity production
* Provides practical examples and calculations to enable component and system simulation e.g. Calculation of U-values, I-V curve parameters ...

buildings. Offers smart air biofilters that improves the indoor air quality by combining technology and the power of nature by purifying the indoor air from pollutants. Developing new type of building materials that include hemp shives to be used as a healthier and more sustainable alternative to usual types of ...

Existing public and non-residential building solar will need to be installed starting from 2027. ... Advances in Hardware, Software and AI Technology. Solar Media Events, Upcoming Webinars ...

Buildings are one of the most important application sectors for solar energy technologies since they can contribute to reducing the carbon footprint of the built environment. Further research opportunities are still growing, looking at novel building applications, using innovative materials devices, advanced system configurations, design and ...

system in Latvia [34], but the residential building sector with its own heat production units has maintained unmapped. This study is undertaking the LCA approach to provide empirical evidence of impacts related to heat and electricity technologies applicable in residential single-family buildings in Latvia, including solar PV and mCHP, in order to

This paper deals with the theme of integration of solar technologies in buildings and focuses on difficult and problematic relationship between the physical conformation of the plant and the ...

Solar air heating is a solar thermal technology in which the energy from the sun, solar insolation, ... Increase in the energy prices is an urgent problem in Latvia, so solar energy can be a good ... We can use solar energy to heat and cool buildings (both actively and passively), dry products, heat water for domestic and industry use, heat ...

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