

How do I use the Global Solar Atlas?

Welcome to the Global Solar Atlas. Start exploring solar potential by clicking on the map. Select sites, draw rectangles or polygons by clicking the respective map controls. Calculate energy production for selected sites. The Global Solar Atlas provides a summary of solar power potential and solar resources globally.

What is the Global Solar Atlas (GSA)?

The Global Solar Atlas (GSA) is a free, online, map-based application that provides information on solar resource and photovoltaic power potential globally. It features the online interactive map tools, simplified photovoltaic (PV) power calculator, reporting tools and the extensive download section.

What is a typical large-scale PV power plant?

We consider a typical large-scale PV power plant. More precisely, the PV system configuration consists of free-standing structures with monofacial crystalline silicon PV modules fixed mounted at an optimum tilt to maximize the yearly energy yield. The use of high-efficiency inverters is also assumed.

What are PVGIS solar panels made of?

By default, PVGIS provides solar panels made up of crystalline silicon cells. These solar panels correspond to the majority of rooftop-installed solar panel technology. PVGIS does not differentiate between polycrystalline and monocrystalline cells.

When was PV power potential calculated?

The first detailed global overview of PV power potential has been calculated by Solargis, in 2016, and released within the Global Solar Atlas. The data was further updated in 2019.

What raster data is used to calculate photovoltaic power potential (pvout)?

The primary input is a global raster data layer, representing the long-term average of photovoltaic power potential (PVOUT), calculated by the Solargis approach. We consider a typical large-scale PV power plant.

Suitable for domestic and non-domestic oil storage. Even where current regulations might permit the use of single skin tanks, the additional environmental protection offered through the use of ...

Overview Background Methods and data Features Usage See also External links The Global Solar Atlas (GSA) is a free, online, map-based application that provides information on solar resource and photovoltaic power potential globally. It features the online interactive map tools, simplified photovoltaic (PV) power calculator, reporting tools and the extensive download section. It is intended to provide policy makers, academia, and renewable energy stakeholders to rais...

Photovoltaic panel horizontal tank size atlas

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. ... My bookmarks Hydro-connected Solar PV potential Solar ... letter page printing (A4 format or similar). The maps are provided in the loss ...

Free and open access to photovoltaic (PV) electricity generation potential for different technologies and configurations. Available in English, French, Italian, Spanish and German. Extensive supporting documentation - see the links at ...

Firstly, preparation is key. Before moving a solar panel, ensure you have a suitable vehicle for transport. Ideally, the vehicle you use should have enough space, such as a flatbed or area, to accommodate the size of the panels. ...

Hi to all, I would like to ask a Q regarding the position of the hot water storage tank which is placed above the flat panels. I noticed that the houses that use vertical tanks have hot water faster and manage to keep it hot even ...

The solar PV optimal tilt angle (number of degrees from the horizontal plane) in the simulated scenario is 27° and the PV azimuth (the direction towards which PV panels face) ...

Around 70 countries boast excellent conditions for solar PV, where average daily output exceeds 4.5 kilowatt hours per installed kilowatt of capacity (kWh/kWp) - enough to boil around 25 liters of water.

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