

How many vascular plants are threatened in Tajikistan?

The red books of the country, consecutively issued in 1988 and 2015, include first 209 and then 239 threatened vascular plants 31,32. These numbers are surprisingly low, given that the threats from urbanisation, agriculture and climate change in Tajikistan are extremely high.

Are vascular plants endemic in Tajikistan?

Approximately 30% of vascular plants species known from Tajikistan are generally accepted as endemics 27. Because of its floristic richness, the territory of Tajikistan is recognised by Conservation International as a hotspot of biodiversity 28 and, simultaneously, is regarded as the most sensitive to climate change and biodiversity loss 29.

What data were extracted from a ten-volume Flora of Tajikistan?

The data on altitudinal and geographical distribution of the species as well as life form (according to Raunkier), phenology, flower colour, habitat preferences and usefulness were extracted from the ten-volume flora of Tajikistan and field surveys of the authors (particularly habitat requirements, Table S1).

Do medicinal plants affect the flora in Tajikistan?

Despite the fact that harvesting of useful plants can cause a considerable threat to the flora 65, in Tajikistan the usage of medicinal and food plants still seems to be traditional and sustainable, without having a strong influence on the local flora.

How many species are there in Tajikistan?

As only twelve species from Tajikistan are included in the IUCN global red listing (6 CR, 3 EN and 3 VU, additionally 2 NT, 18 DD 47), these numbers indicate the degree of under investigation of the conservation status in this valuable area of the world.

Are early blooming plants threatened in Tajikistan?

The early blooming plants in Tajikistan are relatively more threatened than the other groups of taxa. This pattern is not so evident, however considering the extinct and vulnerable taxa we can find the shift towards the beginning of the vegetation season.

Ideally tilt fixed solar panels 33°; South in Dushanbe, Tajikistan. To maximize your solar PV system's energy output in Dushanbe, Tajikistan (Lat/Long 38.5347, 68.7778) throughout the year, you should tilt your panels at an angle of 33°; South for fixed panel installations.

1. The OJSC "Pamir Energy Company" has received financing from the World Bank toward the cost of the Tajikistan Rural Electrification Project and intends to apply part of the proceeds toward payments under the Contract for EPC: Design, supply, installation, and commissioning of Solar PV + Wind + BESS. 2.

The sensitivity to solar irradiance was less affected in the PV tree than in the land-based PV module. A new configuration of the solar tree was built in Algeria and compared with the same number of PV cells of a regular PV system; the result shows the solar tree can produce 22.6 % more power than the regular PV module at 2 p.m. [20].

Solar System Installers in Tajikistan Tajik solar panel installers - showing companies in Tajikistan that undertake solar panel installation, including rooftop and standalone solar systems. 2 installers based in Tajikistan are listed below.

It consists of PV panels fixed as leaves on a tree-like structure, and it reduces the land footprint of the PV system. In this study, six different semi-dome shape solar PV tree structures were designed based on increasing number of layers and panels (structures (a) to (f)), at different tilt angles and orientation angles.

Tajikistan has significant potential for solar energy due to its high solar irradiation levels and land availability. According to a study by the International Renewable Energy Agency (IRENA), Tajikistan has the potential to generate up to 220,000 GWh () of electricity from solar power, which is more than ten times its current electricity consumption. This...

Procurement title: "Solar PV Expansion for Murghab System", Tajikistan Closing date: June 28, 2024, at 18:00 Dushanbe, Tajikistan, local time Message title: Procurement Placement: Request for quotation No. RFQ-USAID-PCA-2024-005 Organization/Project: USAID Power Central Asia.

parison with traditional PV system is done to explain the importance of this novel technique. The challenges involved in this technique are considered and suggestions are proposed to overcome them. Finally recent developments of the solar tree are discussed. 2. Concept of solar PV tree The concept of a "Solar PV Tree" is a unique blend of ...

The designed PV tracking system, with modules fixed at an angle of 170°; to feed the load as well as the DC motor, exhibited it to be an efficient energy-conversion system. The fabricated system ...

A comparative study of a sample 5 kW solar PV tree (as in Fig. 4) and a 5 kW land based fixed angle PV system for the city of Bhopal in central India (Latitude: 23°15'35" North, Longitude 77°24'45" East) is carried out using PVGIS simulation software [54].

Thanks to the PATENTED GROUND FIXING SYSTEM, this carport has no installation limits and can be mounted on all types of soil. The opposing inserts are driven into the ground with a simple electro-pneumatic hammer and, ...

Tajikistan's Ministry of Energy and Water Resources is conducting a tender for the design, construction, financing, operation, and maintenance of a 200 MW solar plant in western Tajikistan. The ...

Our proposals for the photovoltaic sector. Thanks to the simplicity of installation, numerous configurations, minimum dimensions and maximum portability, you will be able to find the most suitable solution for you. ... The TreeSystem ground mounting system boasts countless applications. Choose your area of interest: Fences Photovoltaic Carports ...

TreeSystem Srl produziert Befestigungssysteme basierend auf einem innovativen Prinzip, welches durch ein internationales Patent geschützt ist. Unser Revolutionäres „Bodenverankerung-System“ wurde so konzipiert damit es Wirtschaftlich und vielseitig anwendbar ist. Zugleich ist es schnell und einfach in der Handhabung.

To model the energy yield of the PV system, the hourly TMY data from PVGIS [28] was used as input to the Radiance raytracing simulation tool [29]. To simplify the simulation process, the scene was divided into two parts: (i) the olive trees, which were characterized by the dimensions of the trunk and the crown, and (ii) the PV system.

The Committee for Architecture and Construction under the Government of Tajikistan believes that using solar photovoltaic systems in buildings and structures, alongside centralized traditional power supply, could cover 6-8% of their total electricity needs. Costs and market readiness for solar power

Web: <https://www.solar-system.co.za>

