

Are solar and hydro energy trade based on complex networks?

Fu et al. (2017) examined the geographic characteristics of solar and hydro energy trade and explored their evolutions based on complex networks. Yang et al. (2017) analyzed the spatial patterns and mobility of global solar energy trade in Asian countries from 1990 to 2013 based on network analysis.

Does solar PV have a trade pattern in East Asia?

Yang et al. (2017) displayed changes in solar PV's core-periphery hierarchical trade patterns in East Asia. Based on previous results, Guan et al. (2020) proposed functional trade patterns, the optimal trade patterns measured and determined by network motifs, to estimate the potential PV trade flows effectively.

Can global PV trade networks be used as a dependent variable?

First, combined with the empirical econometric model, the global PV trade networks can be taken as the dependent variable to further investigate its economic and environmental impacts.

Why is PV trading declining in North America?

North America has witnessed a constant decline and its ratio slid from 19.58% in 2000 to 8.31% in 2010, then to 6.28% in 2019, largely due to the "anti-dumping" policy of the US, which seriously hindered PV trade. The third echelon consisted of South America, Africa, and Oceania is more in the form of lines because of their small trade volume.

Are photovoltaics the new driving force for development?

As resource shortages and environmental problems keep coming up, economies urgently need renewable energies as the new driving force for development. As one of the representatives of renewable energy, the photovoltaic (PV)'s trade has received much attention from all walks of life.

It is located in Yingjiang County, Dehong Prefecture, Yunnan Province, with a total installed capacity of 150 MW and an area of 3427 mu. A mixed arrangement of fixed brackets and flexible brackets is adopted, among ...

A siting and sizing method for the distributed photovoltaic power station in distribution network considering reverse power flow constraints is proposed.

The current global oil trade network can be divided into three trading blocs, including the "South America-West Africa-North America" trading bloc, the "Middle East-Asian-Pacific region ...

We employ network indicators and the cascading process of risk propagation to analyze the evolution features and the vulnerability of the PV trade network. Firstly, we establish the global PV trade networks from 2000 to

...

The adjacency matrix D is then calculated and China's PV threshold network constructed. The Q-modularity was then calculated using Eq. (8). The four stages of the networks are shown in Figs. 5 (a-d). The nodes in the network are the PV enterprises and the edges indicate that two PV enterprises have a strong connection.

The complexity of international trade has been studied using complex network modeling by many previous works [6], including the evolving structure of trade patterns [7], the closeness identification among countries [8], the prediction of potential trade cooperation [9], and so on. For the solar energy market, it has been approved that trading mechanism in PV trade is ...

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Junan Dehong Trading Co., Ltd. was established in 2001, operating a variety of products import and export its leading industry is the acquisition, processing and sales of sweet potato series products. Our Concent Junan County, Linyi City, Shandong Province

Dehong Huo's 34 research works with 610 citations and 10,496 reads, including: Impact of the Photovoltaic Array Configuration on its Performance under Partial Shading Conditions

We adopt 8 indicators to measure the global PV trade pattern from different perspectives, namely the number of nodes, number of edges, average degree, network ...

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Dulwich Network Learning at Dehong Academic Framework ... At Dehong Education, we have the unique responsibility to educate our students and our community about caring for the planet on which we all rely: the planet our children and grandchildren will inherit. ... and to empower them to take action to support the environment. We will provide ...

The training set in support vector classification is, where, M is the feature of each training sample that defines a specific identification and corresponds to each of the two categories. A vector quantity and a scalar quantity exists, when data is linearly divisible in such a way that is greater than or equal to one for all the models in the training information set .

The tracking photovoltaic support system (Fig. 1) is mainly composed of an axis bar, PV support purlins, pillars (including one driving pillar in the middle and nine other non-driving pillars), sliding bearings and a driving device. The axis bar is composed of 11 shaft rods. Photovoltaic panels are installed on the photovoltaic support purlins.

Yang et al. analyzed the spatial patterns and mobility of global solar energy trade in Asian countries from 1990 to 2013 based on network analysis. Considering most of them ...

The tracking photovoltaic support system (Fig. 1) is mainly composed of an axis bar, PV support purlins, pillars (including one driving pillar in the middle and nine other non-driving pillars), sliding bearings and a driving device. ... Considering carbon trading, the payback period is shortened to 11.7 years, with the return on investment of ...

Employees: 0-100 Detail (72.48% of companies have fewer than 5 employees.) Registered capital: 8,000,000 RMB Detail (6.3% of companies have registered capital less than 500,000.

Firstly, we establish the global PV trade networks from 2000 to 2021 based on the PV trade flow between countries. We then explore evolution features and analyze the influencing factors of the...

The evolution of the solar PV products trade network for different time intervals: 2001-2005, 2006-2010, 2011-2015, 2016-2020, 2021-2022, and 2001-2022.

This is the author's version which has not been fully edited and content may change prior to final publication. --network Yes [20], [21] auction -energy No [17], [18] auction -energy Yes [25 ...

Photovoltaic industry trade has become a global trade activity, and a wide range of photovoltaic trade relations have been formed between countries. In order to further strengthen and balance trade relations, this paper ...

[Show full abstract] builds the global photovoltaic cell trade network and trade competition network from 2000 to 2019 and analyzes the trade characteristics and competition pattern in the global ...

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Dehong Photovoltaic Support Trading Network

ESS can be used to lower electricity costs and raise the share of local PV power consumption, thereby increasing users' economic benefits [5]. At present, the cost of PV power generation is lower ...

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international photovoltaic trade with trade interpretations. Based on the trade data of PV commodities from 2007 to 2016, complex networks with countries as nodes and trade

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a solar PV product trade network, elucidating evolutionary trends, structural complexities, and clusters. A novel centrality influence model explores influencing factors across five dimensions.

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