

Article

Evolutionary Analysis of the Solar Photovoltaic Products Trade Network in Belt and Road Initiative Countries from an Economic Perspective

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Abstract: Against the backdrop of global energy transition and the imperative for sustainable development, the trade dynamics of solar photovoltaic (PV) products among “Belt and Road Initiative (BRI)” countries gained momentum. This study investigates the evolving trade patterns of PV products within BRI nations, alongside the underlying determinants. The paper constructs and analyzes a solar PV product trade network, elucidating evolutionary trends, structural complexities, and clusters. A novel centrality influence model explores influencing factors across five dimensions. Methodologically, trade data, the “Five Connectivity” framework, and socio-economic indicators from 2001 to 2022 across 65 BRI countries underpin the study. Empirical insights reveal a robust PV product trade network with density exceeding 0.4 and reciprocity surpassing 0.38. China’s rising centrality, reflected in a weighted degree surge from 14.38 to 79.37 since 2011, signifies its consolidation within the network. Results show sustained high density and reciprocity in the PV trade network, signaling robust communication among BRI countries. China’s centrality in the network has consistently grown since 2011. Trade cluster analysis reveals isolated segments predominant, depicting emerging economies with limited photovoltaic exchanges, mainly export-focused. The study highlights the pivotal role of “Five Connectivity” dimensions in promoting PV trade, while financial connectivity’s impact remains modest. The emergence of PV product centers challenges traditional energy hubs, prompting the need for new energy trading paradigms and robust financial hubs.

Keywords: solar photovoltaic (PV) products trade; Belt and Road Initiative (BRI); green and sustainable development; comprehensive network model; factors influencing PV products network



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1. Introduction

The Belt and Road Initiative (BRI), introduced by China in 2013, aims to enhance trade, foster infrastructure development, and facilitate international collaboration across Asia, Africa, and Europe. As part of this expansive initiative, there was considerable attention directed towards the trade of solar photovoltaic (PV) products due to their potential to drive green and sustainable development [1]. These nations, positioned along the Belt and Road, possess strategic resources such as oil, coal, natural gas, and uranium, endowing them with pivotal roles in global supply chains and offering prospects for mutually beneficial partnerships. Approaching its 10th anniversary, the BRI places a heightened emphasis on achieving green and sustainable growth, given the escalating global greenhouse gas emissions [2]. Solar PV products encompass a broad array of technologies and equipment designed to convert sunlight into electricity through the photovoltaic effect. These include solar cells, which are the basic units for electricity generation, and solar panels, which are assemblies of these cells. Inverters play a crucial role in converting the direct current generated into usable alternating current. Mounting

Solar Alternative An Economic Perspective

**Stefano Della Torre, Sara
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The Solar Alternative Amy L. Walton, Eugene H. Warren, 1982 Energy Abstracts for Policy Analysis ,1986 *Climate Change And The Energy Problem: Physical Science And Economics Perspective (Second Edition)* David L Goodstein, Michael D Intriligator, 2017-03-14 This important compendium deals with the primary world problems of global warming and the coming energy crisis In alternating chapters it lays out the nature of the two interrelated problems and specifies the various economic considerations Thus it describes the coming shortfall of fossil fuel energy in detail and then presents the economic factors governing possible solutions Written by two world renowned academics a physicist who writes about the nature of the problem and an economist who discusses various scenarios and solutions this unique must have book highlights the problem from the point of view of a scientist and an economist **Social and Economic Perspectives on Sustainability** Raya Tsvetkova, Savina Ezekieva, Caroline Duvier, Crina Oltean-Dumbrava, Dilek Akbaş Akdoğan, Coşkun Karaca, Övünç Gürsoy, Semra F. Aşçıgil, Uğur Soytaş, Meltem Ö. Özcanlı, Sadullah Çelik, Aslı Yüksel Mermod, Ayşe Demirhan, Serdar Bozkurt, Burcu Yiğit, Mehmet Çağlar, Solomon Chukwuemeka Ugbajaa, Refika Bakoğlu, Neşe Soysal, Ahmet Ok, Merve Er Kara, Özlem Yurtsever, Seniye Ümit Oktay Fırat, Ayşe Ümit Gökdeniz, Ayşe Uygur, Recep Kurt, Artür Yetvart Mumcu, Ozan Emre Ufacık, 2016-12-20 e term Sustainability possesses numerous meanings for different people and various circumstances and it is a common mistake to define sustainability strictly in terms of environmental sustainability is misconception believes the major flaw of the contemporary pattern of development is simply its destruction of the environment Handling sustainability only from an environmental standpoint is a superficial view that needs to be assessed carefully and underlined correctly As A D Basiago suggests t he protection of natural systems represents not an overarching panacea for achieving economic vitality and social justice but a necessary component of an entire system for achieving economic social and environmental sustainability in which economic reforms and social reforms are as important e chapters included in this volume are composed of some selected significant contributions from the first International Sustainability Congress organized by International Center of Sustainability ICS 1 3 December 2016 in Istanbul Turkey All chapters are peer reviewed by both the editors and at least two independent scholars from fields relevant to the manuscript s subject area ICS is a research and academic center for sustainability founded in 2015 and dedicated to build resilience of communities and ecosystems to environmental and socio economic risks ICS has an integrated approach and specifies sustainability not only from an environmental point of view but also in terms of socio economic process Its mission is to produce information as well as enhance research and practice at Micro and Macro levels in Sustainable Development with a holistic and a cross disciplinary approach *World Economic Outlook, April 2025* International Monetary, International Monetary Fund. Research Dept, 2025-04-22 The latest World Economic Outlook reports a slowdown in global growth as downside risks intensify While policy shifts unfold and uncertainties reach new highs policies need to be calibrated to rebalance growth inflation trade offs

rebuild buffers and reinvigorate medium term growth thereby reducing both internal and external imbalances Policies that promote healthy aging bridge gender disparities and enhance the alignment of migrants skills with local labor market demands can play a crucial role in countering slow economic growth and fiscal pressures especially when coupled with infrastructure investment The movement of migrants and refugees has become a fixture of public debate Chapter 3 examines how changes in the stringency of migrant and refugee policies can alter the journeys and legal pathways people choose to take within and between economies For example stricter policies can deflect flows of people to new destinations Those economies can experience short term challenges from strains on local services but ultimately benefit in the longer term Costs are likely to be more severe where challenges to integrate newcomers are larger notably in emerging market and developing economies and their skills are not well matched with local labor market needs Benefits can materialize sooner by boosting infrastructure investment and promoting private sector development International cooperation can also help by more evenly distributing short term costs across economies Energy Alternatives Margaret Haerens,2013-03-12 This must have volume explores global developments in energy alternatives focusing on nuclear energy particularly the impact of the Fukushima nuclear crisis as well as the politics and economics of energy alternatives Primary sources and essays from international sources offer a truly panoramic view Stellar essay sources include Yazeed Kamaldien Integrated Regional Information Networks Barack Obama Young Il Choung James Holloway Yazeed Kamaldien The Economist and Siobhan Dowling

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