

Opening Presentation of the Domestic Solar Industry

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Crystalline Silicon Photovoltaic Cells, Whether Or Not Partially or Fully Assembled Into Other Products USITC Inv. No. TA-201-75 August 15, 2017

Introduction

- The domestic industry
- The legal standard
- Conditions of competition
- Imports
- Serious injury
- Threat
- Conclusion



The Domestic Industry

- The domestic industry lost most of its producers between 2012 and 2017
 - Nearly 30 U.S. solar cell and module producers forced to close since 2012
 - SolarWorld and Suniva are the two largest U.S. producers
- SolarWorld Americas, based in Hillsboro, Oregon, is the largest solar manufacturer in North America, with 40 years of experience
 - Peak of 1300 workers, now only 300 workers
- Suniva, based in Norcross, Georgia, has facilities in Georgia and Michigan
 - Suniva declared bankruptcy and was forced to close in 2017

SolarWorld Americas Inc.

- Most Recommended and Carried by U.S. Installers EuPD Research
- Highest Quality Standards TÜV Rheinland
- Leading Sustainable Solar Manufacturer Silicon Valley Toxics Coalition
- Green Brand Certified Green Brands
- Green Certified Products National Green Building Standard
- A+ Rating Better Business Bureau
- 2016 Manufacturer of the Year Portland Business Journal
- Innovation Award for Automatic 2016 USA Automation Network Dresden





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Suniva

- 2016 Georgia Manufacturer of the Year
- Renewable Energy Exporter of the Year -- Export-Import Bank of the United States
- Top Venture-Backed Clean-Tech Companies The Wall Street Journal

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Top 50 Fastest Growing Companies in Atlanta

Closed U.S. Solar	Manufact	uring 2	012-2017	
 1Soltech 	 Motech 		Suniva (2)	
 Advanced Solar Photonics 	 MX Solar 		Suntech (AZ)	
 Alternative Energies 	 Navajo Unive 	rsal 🔹	tenKSolar	
Kentucky	 NuSun 		Transform Solar	
 Beamreach Solar 	 Schott Solar 		Twin Creeks Techn	ologies
 Flextronics/SunPower 	Sharp			
 Helios 	 Silicon Energy 	/ (2)		
 Isofoton 	 Siliken 			
 Kyocera 	 Solar Power Industries (2) 			
 Mage Solar 	 Solartech Rer 	newables		Wiley
 Mission Solar 	SolarWorld (0)	CA)	6	Rei

The Legal Standard

- The Commission must determine whether imports have increased in such quantities as to be a substantial cause of serious injury to a domestic industry, or threat thereof
- Serious injury means "a significant overall impairment in the position of a domestic industry"
- Substantial cause means "a cause which is important and not less than any other cause"

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All of these factors are present in this case



Conditions of Competition: Global Overcapacity

- Global capacity has expanded dramatically, leading to massive global overcapacity
 - The largest producers are China, Taiwan, Malaysia, and Korea
 - More recently, new producers such as Thailand, Singapore, and Vietnam have emerged as well
- Many foreign producers have production operations in multiple countries
 - Producers are able to shift production and exports rapidly from country to country

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 "These factors combined will but a huge strain on PV module suppliers, who are already in financially precarious situations . . ."





No 'new China' to save the day as solar faces glut: BNEF

The global solar module industry is careening towards one of the worst supply gluts in its history, and this time there is no big market set to take off and rescue it, warns Ethan Zindler, head of Americas at Bloomberg New Energy Finance.

by Karl-Erik Stromsta in Las Vegas

14 September 2016 Updated 25 October 2016

- "The result of the oversupply will be heavy pressure on module prices . . ."
- "the sheer scale of the oversupply may still be lost on many in the industry."
- "The situation will feel familiar to anyone who was in the solar business earlier this decade, when China's PV giants scaled up massively . . . "









The Destruction of the U.S. Industry

Photon

Prices for solar modules crash

The industry is about to return to the cycle marked by oversuoaly

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- Nearly 30 CSPV production facilities closed in the United States
- 19 firms closed permanently during the POI
- Both SolarWorld and Suniva closed facilities
- Massive net and operating losses
- Layoffs





The Domestic Industry Has Suffered Serious Injury

- The statutory indicators of serious injury are present
 - Significant idling of facilities: nearly 30 production facilities closed over the POI
 - Inability to make a profit: the domestic modules industry incurred operating losses in every year of the POI, with a total operating loss of \$865 million
 - Unemployment: employment in the industry fell by 14% from 2012 to 2015, then increased in 2016
 - However, Suniva's shutdown and layoffs by SolarWorld this year means the industry lost employment from 2012 to 2017

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- The global import surge captured practically all of increased demand
- The domestic industry lost market share to imports
- The combination of flat sales, lost market share, and falling prices cost the U.S. industry hundreds of millions of dollars, and prevented it from recovering its massive investment in production facilities



Alternative Causes Do Not Explain the Domestic Industry's Losses

- Grid parity the impetus for prices for different energy products to converge – does not explain the sharp decline in prices, particularly in 2015 and 2016
- Demand increased sharply across the POI, so that changes in government incentives cannot explain the industry's poor performance

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 Prices during the POI were decoupled from raw material costs



Treatment of FTA Countries

- The United States has free trade agreements with Korea and Singapore
- If the Commission makes an affirmative determination, it must then make a separate finding as to whether imports from these countries individually are a substantial cause of serious injury or threat thereof, and report that finding to the President
- The President can then decide whether to include imports from these countries in any remedy provided

Imports Threaten the Domestic Industry with Serious Injury

- The U.S. industry has suffered declining market share and incurred large losses
- There is extensive global overcapacity, and foreign producers can increase production rapidly
- Foreign producers can rapidly shift exports to the United States



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Conclusion

- This case easily satisfies all of the criteria for a finding of serious injury
- Global imports increased substantially
- The domestic industry has suffered serious injury
- There is a clear relationship between the increased imports and the domestic industry's financial losses
- Imports also threaten the domestic industry with serious injury

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