

**U.S. PURCHASERS' QUESTIONNAIRE**  
**CRYSTALLINE SILICON PHOTOVOLTAIC CELLS**  
**(WHETHER OR NOT PARTIALLY OR FULLY ASSEMBLED INTO OTHER PRODUCTS)**

This questionnaire must be received by the Commission by **October 4, 2019**  
*See last page for filing instructions.*

The information called for in this questionnaire is for use by the United States International Trade Commission in connection with investigation No. TA-201-75 (Monitoring), Crystalline Silicon Photovoltaic ("CSPV") Cells (Whether or Not Partially or Fully Assembled Into Other Products)("CSPV Products"): Monitoring Developments in the Domestic Industry, under section 204 of the Trade Act of 1974 (19 U.S.C. § 2254). The information requested in the questionnaire is needed to supplement data available to the Commission from other sources and is requested under the authority of section 204 of the Tariff Act of 1974. Further information on this questionnaire can be obtained from Aimee Larsen (202-205-3179, [Aimee.Larsen@usitc.gov](mailto:Aimee.Larsen@usitc.gov)). *This report is mandatory and failure to reply as directed can result in a subpoena or other order to compel the submission of records or information in your possession (19 U.S.C. § 1333(a)).*

Name of firm _____		
Address _____		
City _____	State _____	Zip Code _____
Website address _____		
Has your firm purchased CSPV products (e.g., laminates, panels, modules) as defined on the next two pages from any source (domestic or foreign) at any time since January 1, 2016?		
<input type="checkbox"/> NO	(Sign the certification below and promptly return <b>only</b> this page of the questionnaire to the Commission)	
<input type="checkbox"/> YES	(Complete all parts of the questionnaire, and return the entire questionnaire to the Commission)	
Return questionnaire via the U.S. International Trade Commission Drop Box by clicking on the following link: <a href="https://dropbox.usitc.gov/oinv/">https://dropbox.usitc.gov/oinv/</a> . (PIN: <b>CSPV</b> )		

**CERTIFICATION**

*I certify that the information herein supplied in response to this questionnaire is complete and correct to the best of my knowledge and belief and understand that the information submitted is subject to audit and verification by the Commission. By submitting this certification I also grant consent for the Commission, and its employees and contract personnel, to use the information provided in this questionnaire and throughout this proceeding in any other import-injury proceedings conducted by the Commission on the same or similar merchandise.*

*I, the undersigned, acknowledge that information submitted in response to this request for information and throughout this proceeding or other proceedings may be disclosed to and used: (i) by the Commission, its employees and Offices, and contract personnel (a) for developing or maintaining the records of this or a related proceeding, or (b) in internal investigations, audits, reviews, and evaluations relating to the programs, personnel, and operations of the Commission including under 5 U.S.C. Appendix 3; or (ii) by U.S. government employees and contract personnel, solely for cybersecurity purposes. I understand that all contract personnel will sign appropriate nondisclosure agreements.*

\_\_\_\_\_  
Name of Authorized Official

\_\_\_\_\_  
Title of Authorized Official

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

Phone: \_\_\_\_\_

\_\_\_\_\_  
Email address

**PART I.—GENERAL INFORMATION**

**Background.** On January 23, 2018, the President, pursuant to section 203 of the Trade Act of 1974, issued Proclamation 9693, imposing a safeguard measure on imports of CSPV products, in the form of (a) a tariff-rate quota on imports of CSPV (or “solar”) cells not partially or fully assembled into other products and (b) an increase in duties on imports of CSPV modules. The proclamation was published in the Federal Register on January 25, 2018 (83 Fed. Reg. 3541). The measure took effect on February 7, 2018, for a period of four years, or through February 7, 2022. Section 204(a) of the Act requires the Commission to submit a report to the President and Congress on its monitoring of industry developments at the midpoint of the initial period of relief, including the progress and specific efforts made by workers and firms in the domestic industry to make a positive adjustment to import competition. Questionnaires and other information pertinent to this proceeding are available at [https://www.usitc.gov/investigations/title\\_7/2019/crystalline\\_silicon\\_photovoltaic\\_cells\\_whether\\_or/safeguard.htm](https://www.usitc.gov/investigations/title_7/2019/crystalline_silicon_photovoltaic_cells_whether_or/safeguard.htm)

**Crystalline Silicon Photovoltaic (“CSPV”) Cells (Whether or Not Partially or Fully Assembled Into Other Products) (“CSPV products”).**--The articles covered by the investigation are crystalline silicon photovoltaic cells, whether or not partially or fully assembled into other products, including, but not limited to, modules, laminates, panels and building-integrated materials.

The investigation covers crystalline silicon photovoltaic cells of a thickness equal to or greater than 20 micrometers, having a p/n junction (or variant thereof) formed by any means, whether or not the cell has undergone other processing, including, but not limited to, cleaning, etching, coating, and/or addition of materials (including, but not limited to, metallization and conductor patterns) to collect and forward the electricity that is generated by the cell.

Included in the scope of the investigation are photovoltaic cells that contain crystalline silicon in addition to other photovoltaic materials. This includes, but is not limited to, passivated emitter rear contact (“PERC”) cells, heterojunction with intrinsic thin-layer (“HIT”) cells, and other so-called “hybrid” cells.

Articles under consideration may be described at the time of importation as components for final finished products that are assembled after importation, including, but not limited to, modules, laminates, panels, and building-integrated materials.

Excluded from the investigation are CSPV cells, whether or not partially or fully assembled into other products, if the CSPV cells were manufactured in the United States.

Also excluded from the investigation are thin film photovoltaic products produced from amorphous silicon (“a-Si”), cadmium telluride (“CdTe”), or copper indium gallium selenide (“CIGS”).

Also excluded from the scope of the investigation are CSPV cells, not exceeding 10,000mm<sup>2</sup> in surface area, that are permanently integrated into a consumer good whose function is other than power generation and that consumes the electricity generated by the integrated CSPV cell. Where more than one CSPV cell is permanently integrated into a consumer good, the surface area for purposes of this exclusion shall be the total combined surface area of all CSPV cells that are integrated into the consumer good.

For Customs purposes, the CSPV cells covered by the investigation are provided for under Harmonized Tariff Schedule of the United States (“HTSUS”) subheading 8541.40.60. Inverters or batteries with CSPV cells attached can be imported under HTSUS subheadings 8501.61.00 and 8507.20.80, respectively. In addition, CSPV cells covered by the investigation may also be classifiable as DC generators of subheadings 8501.31.80 and 8501.32.60, when such generators are imported with CSPV cells attached. While HTSUS provisions are provided for convenience, the written description of the scope is dispositive.<sup>1</sup>

**Included in the overall data collection in this questionnaire are certain excluded items (i.e., “low wattage” modules) listed in the Presidential Proclamation (83 Fed. Reg. 3541, January 25, 2018) and other excluded items listed in the September 19, 2018 and June 13, 2019 Federal Register notices (83 Fed. Reg. 47393 and 84 Fed. Reg. 27684), although certain data concerning these items are requested separately (see listings and definitions below for “bifacial,” “flexible fiberglass,” “light directing film,” “Modules incorporating rear contact cells with tin-coated solid copper fingers,” “Rear contact cells with tin-coated solid copper fingers,” and “low wattage”).**

Presidential Proclamation 9693 excluded the following “low wattage” products from application of the safeguard measure, which took effect on February 7, 2018 (83 Fed. Reg. 3541, January 25, 2018):

- 10 to 60 watt, inclusive, rectangular solar panels, where the panels have the following characteristics: (A) Length of 250 mm or more but not over 482 mm or width of 400 mm or more but not over 635 mm, and (B) surface area of 1000 cm<sup>2</sup> or more but not over 3,061 cm<sup>2</sup>, provided that no such panel with those characteristics shall contain an internal battery or external computer peripheral ports at the time of entry.
- 1 watt solar panels incorporated into nightlights that use rechargeable batteries and have the following dimensions: 58 mm or more but not over 64 mm by 126 mm or more but not over 140 mm.
- 2 watt solar panels incorporated into daylight dimmers that may use rechargeable batteries, such panels with the following dimensions: 75 mm or more but not over 82 mm by 139 mm or more but not over 143 mm.
- Off-grid and portable CSPV panels, whether in a foldable case or in rigid form containing a glass cover, where the panels have the following characteristics: (a) A total power output of 100 watts or less per panel; (b) a maximum surface area of 8,000 cm<sup>2</sup> per panel; (c) does not include a built-in inverter; and where the panels have glass covers, such panels must be in individual retail packaging (in this context, retail packaging typically includes graphics, the product name, its description and/or features, and foam for transport).
- 3.19 watt or less solar panels, each with length of 75 mm or more but not over 266 mm and width of 46 mm or more but not over 127 mm, with surface area of 338 cm<sup>2</sup> or less, with one black wire and one red wire (each of type 22 AWG or 24 AWG) not more than 206 mm in length when measured from panel edge, provided that no such panel shall contain an internal battery or external computer peripheral ports.
- 27.1 watt or less solar panels, each with surface area less than 3,000 cm<sup>2</sup> and coated across the entire surface with a polyurethane doming resin, the foregoing joined to a battery charging and maintaining unit, such unit which is an acrylonitrile butadiene styrene (ABS) box that incorporates a light emitting diode (LED) by coated wires that include a connector to permit the incorporation of an extension cable.

<sup>1</sup> CSPV products covered by the scope are currently subject to tariff-rate quotas under a safeguard measure imposed effective February 7, 2018, under subheadings 9903.45.21 and 9903.45.22 (CSPV cells) and 9903.45.25 (CSPV modules) and related legal notes.

The following additional CSPV products entered, or withdrawn from a warehouse for consumption, on or after 12:01 a.m., EST, on September 19, 2018 are also excluded from the safeguard measure (83 Fed. Reg. 47393, September 19, 2018):

- off-grid, 45 watt or less solar panels, each with length not exceeding 950 mm and width of 100 mm or more but not over 255 mm, with a surface area of 2,500 cm<sup>2</sup> or less, with a pressure-laminated tempered glass cover at the time of entry but not a frame, electrical cables or connectors, or an internal battery.
- 4 watt or less solar panels, each with a length or diameter of 70 mm or more but not over 235 mm, with a surface area not exceeding 539 cm<sup>2</sup>, and not exceeding 16 volts, provided that no such panel with these characteristics shall contain an internal battery or external computer peripheral ports at the time of entry.
- solar panels with a maximum rated power of equal to or less than 60 watts, having the following characteristics, provided that no such panel with those characteristics shall contain an internal battery or external computer peripheral ports at the time of entry: (A) Length of not more than 482 mm and width of not more than 635 mm or (B) a total surface area not exceeding 3,061 cm<sup>2</sup>.
- flexible and semi-flexible off-grid solar panels designed for use with motor vehicles and boats, where the panels range in rated wattage from 10 to 120 watts, inclusive.
- frameless solar panels in a color other than black or blue with a total power output of 90 watts or less where the panels have a uniform surface without visible solar cells or busbars.
- solar cells with a maximum rated power between 3.4 and 6.7 watts, inclusive, having the following characteristics: (A) A cell surface area between 154 cm<sup>2</sup> and 260 cm<sup>2</sup>, inclusive, (B) no visible busbars or gridlines on the front of the cell, and (C) more than 100 interdigitated fingers of tin-coated solid copper adhered to the back of the cell, with the copper portion of the metal fingers having a thickness of greater than 0.01 mm.
- solar panels with a maximum rated power between 320 and 500 watts, inclusive, having the following characteristics: (A) Length between 1,556 mm and 2,070 mm inclusive, and width between 1,014 mm and 1,075 mm, inclusive, (B) where the solar cells comprising the panel have no visible busbars or gridlines on the front of the cells, and (C) the solar cells comprising the panel have more than 100 interdigitated fingers of tin-coated solid copper adhered to the back of the cells, with the copper portion of the metal fingers having thickness greater than 0.01 mm.
- modules incorporating only CSPV cells that are products of the United States and not incorporating any CSPV cells that are the product of any other country.

The following additional CSPV products entered, or withdrawn from a warehouse for consumption, on or after 12:01 a.m., EST, on June 13, 2019 are also excluded from the safeguard measure (84 Fed. Reg. 27684, June 13 19, 2019):

- bifacial solar panels that absorb light and generate electricity on each side of the panel and that consist of only bifacial solar cells that absorb light and generate electricity on each side of the cells.
- flexible fiberglass solar panels without glass components other than fiberglass, such panels having power outputs ranging from 250 to 900 watts.
- solar panels consisting of solar cells arranged in rows that are laminated in the panel and that are separated by more than 10 mm, with an optical film spanning the gaps between all rows that is designed to direct sunlight onto the solar cells, and not including panels that lack said optical film or only have a white or other backing layer that absorbs or scatters sunlight.

***CSPV cell.***--A crystalline silicon photovoltaic (“CSPV”) cell converts sunlight to electricity and is the basic element of a module. The investigation covers CSPV cells of a thickness equal to or greater than 20 micrometers, having a p/n junction (or variant thereof) formed by any means, whether or not the cell has undergone other processing, including, but not limited to, cleaning, etching, coating, and/or addition of materials (including, but not limited to, metallization and conductor patterns) to collect and forward the electricity that is generated by the cell. Included are photovoltaic cells that contain crystalline silicon in addition to other photovoltaic materials. This includes, but is not limited to, passivated emitter rear contact (“PERC”) cells, heterojunction with intrinsic thin-layer (“HIT”) cells, and other so-called “hybrid” cells.

***CSPV module.***--A joined group of CSPV cells, regardless of the number of cells or the shape of the joined group that are capable of generating electricity. The term “**module**” is frequently used interchangeably with the term “**panel**.” A “**lamine**” is a module that does not have a frame.

***CSPV products = CSPV cells + CSPV modules***

***Building Integrated Materials.***--Materials integrated into the building envelope, such as the façade or roof, containing CSPV cells. These building integrated materials replace conventional construction materials, such as glass or roof shingles, taking over the function that conventional materials would otherwise perform while also producing electricity.

***Bifacial.***--Bifacial modules that absorb light and generate electricity on each side of the module and that consist of only bifacial cells that absorb light and generate electricity on each side of the cells.

***Flexible fiberglass.***--Flexible fiberglass modules without glass components other than fiberglass, such modules having power outputs ranging from 250 to 900 watts.

***Light directing film.***--Modules consisting of cells arranged in rows that are laminated in the module and that are separated by more than 10 mm, with an optical film spanning the gaps between all rows that is designed to direct sunlight onto the cells, and not including modules that lack said optical film or only have a white or other backing layer that absorbs or scatters sunlight.

***Rear contact cells with tin-coated solid copper fingers.***--Cells with a maximum rated power between 3.4 and 6.7 watts, inclusive, having the following characteristics: (A) A cell surface area between 154 cm<sup>2</sup> and 260 cm<sup>2</sup>, inclusive, (B) no visible busbars or gridlines on the front of the cell, and (C) more than 100 interdigitated fingers of tin-coated solid copper adhered to the back of the cell, with the copper portion of the metal fingers having a thickness of greater than 0.01 mm.

***Modules incorporating rear contact cells with tin-coated solid copper fingers.***--Modules with a maximum rated power between 320 and 500 watts, inclusive, having the following characteristics: (A) Length between 1,556 mm and 2,070 mm inclusive, and width between 1,014 mm and 1,075 mm, inclusive, (B) where the cells comprising the module have no visible busbars or gridlines on the front of the cells, and (C) the cells comprising the module have more than 100 interdigitated fingers of tin-coated solid copper adhered to the back of the cells, with the copper portion of the metal fingers having thickness greater than 0.01 mm.

**Low wattage.**—Modules meeting one of the following eleven definitions:

- (1) 10 to 60 watt, inclusive, rectangular modules, where the modules have the following characteristics: (A) length of 250 mm or more but not over 482 mm or width of 400 mm or more but not over 635 mm, and (B) surface area of 1000 cm<sup>2</sup> or more but not over 3,061 cm<sup>2</sup>), provided that no such module with those characteristics shall contain an internal battery or external computer peripheral ports at the time of entry; or
- (2) 1 watt modules incorporated into nightlights that use rechargeable batteries and have the following dimensions: 58 mm or more but not over 64 mm by 126 mm or more but not over 140 mm;
- (3) 2 watt modules incorporated into daylight dimmers, that may use rechargeable batteries, such modules with the following dimensions: 75 mm or more but not over 82 mm by 139 mm or more but not over 143 mm;
- (4) Off-grid and portable CSPV modules, whether in a foldable case or in rigid form containing a glass cover, where the modules have the following characteristics: (A) a total power output of 100 watts or less per module; (B) a maximum surface area of 8,000 cm<sup>2</sup> per module; (C) do not include a built-in inverter; (D) where the modules have glass covers, such modules must be in individual retail packaging (for purposes of this provision, retail packaging typically includes graphics, the product name, its description and/or features, and foam for transport);
- (5) 3.19 watt or less modules, each with length of 75 mm or more but not over 266 mm and width of 46 mm or more but not over 127 mm, with surface area of 338 cm<sup>2</sup> or less, with one black wire and one red wire (each of type 22 AWG or 24 AWG) not more than 206 mm in length when measured from module edge, provided that no such module shall contain an internal battery or external computer peripheral ports;
- (6) 27.1 watt or less modules, each with surface area less than 3,000 cm<sup>2</sup> and coated across the entire surface with a polyurethane doming resin, the foregoing joined to a battery charging and maintaining unit, such unit which is an acrylonitrile butadiene styrene (“ABS”) box that incorporates a light emitting diode (“LED”) by coated wires that include a connector to permit the incorporation of an extension cable.
- (7) Off-grid, 45 watt or less modules, each with length not exceeding 950 mm and width of 100 mm or more but not over 255 mm, with a surface area of 2,500 cm<sup>2</sup> or less, with a pressure-laminated tempered glass cover at the time of entry but not a frame, electrical cables or connectors, or an internal battery; or
- (8) 4 watt or less modules, each with a length or diameter of 70 mm or more but not over 235 mm, with a surface area not exceeding 539 cm<sup>2</sup>, and not exceeding 16 volts, provided that no such module with these characteristics shall contain an internal battery or external computer peripheral ports at the time of entry; or
- (9) Modules with a maximum rated power of equal to or less than 60 watts, having the following characteristics, provided that no such module with those characteristics shall contain an internal battery or external computer peripheral ports at the time of entry: (A) Length of not more than 482 mm and width of not more than 635 mm or (B) a total surface area not exceeding 3,061 cm<sup>2</sup>;
- (10) Flexible and semi-flexible off-grid modules designed for use with motor vehicles and boats, where the modules range in rated wattage from 10 to 120 watts, inclusive; or
- (11) Frameless modules in a color other than black or blue with a total power output of 90 watts or less where the modules have a uniform surface without visible cells or busbars.

**Reporting of information.**--If information is not readily available from your records in exactly the form requested, furnish carefully prepared estimates. If your firm is completing more than one questionnaire in connection with this proceeding (i.e., a producer, importer, and/or purchaser questionnaire), you need to respond only once to duplicated questions in the questionnaires.

**Confidentiality.**--The commercial and financial data furnished in response to this questionnaire that reveal the individual operations of your firm will be treated as confidential by the Commission to the extent that such data are not otherwise available to the public and will not be disclosed except as may be required by law (see 19 U.S.C. § 2252(i)). Such confidential information will not be published in a manner that will reveal the individual operations of your firm; however, general characterizations of numerical business proprietary information (such as discussion of trends) will be treated as confidential business information only at the request of the submitter for good cause shown.

**Verification.**--The information submitted in this questionnaire is subject to audit and verification by the Commission. To facilitate possible verification of data, please keep all files, worksheets, and supporting documents used in the preparation of the questionnaire response. Please also retain a copy of the final document that you submit.

**Release of information.**--The information provided by your firm in response to this questionnaire, as well as any other confidential business information submitted by your firm to the Commission in connection with this proceeding, may become subject to, and released under, the administrative protective order provisions of the Trade Act of 1974 (19 U.S.C. § 2252(i)) and section 206.17 of the Commission's Rules of Practice and Procedure (19 C.F.R. § 206.17). This means that certain lawyers and other authorized individuals may temporarily be given access to the information for use in connection with this proceeding or other import-injury proceedings conducted by the Commission on the same or similar merchandise; those individuals would be subject to severe penalties if the information were divulged to unauthorized individuals.

I-1a. **Establishments covered.**--Provide the name and address of your U.S. establishment(s) covered by this questionnaire, if different from that listed on the cover page. **Firms operating more than one establishment should combine the data for all establishments into a single response.**

**"Establishment"**--Each facility of a firm involved in the purchase of CSPV products, including auxiliary facilities operated in conjunction with (whether or not physically separate from) such facilities.

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I-1b. **Stock symbol information.**-- If your firm or parent firm is publicly traded, please specify the stock exchange and trading symbol: \_\_\_\_\_.

I-1c. **External counsel.**-- If your firm or parent firm is represented by external counsel in relation to this proceeding, please specify the name of the law firm and the lead attorney(s).

Law firm: \_\_\_\_\_.

Lead attorney(s): \_\_\_\_\_.

I-2. **Ownership.**--Is your firm owned, in whole or in part, by any other firm?

No       Yes--List the following information.

<b>Firm name</b>	<b>Address</b>	<b>Extent of ownership (percent)</b>



**“Related firm”** – A firm that your firm solely or jointly owns, manages, or otherwise controls, including for example, parent companies, subsidiaries owned by the same parent company, and other affiliates.

I-3. **Related importers/exporters.**--Does your firm have any related firms, either domestic or foreign, that are engaged in importing CSPV products into the United States or that are engaged in exporting these items to the United States?

No       Yes--List the following information.

<b>Firm name</b>	<b>Country</b>	<b>Affiliation</b>

I-4. **Related producers.**-- Does your firm have any related firms, either domestic or foreign, that are engaged in producing CSPV cells or assembling (fully or partially) CSPV cells into other products?

No       Yes--List the following information.

<b>Firm name</b>	<b>Country</b>	<b>Affiliation</b>

**PART II.--PURCHASES**

**Contact information.**--Please identify the responsible individual and the manner by which Commission staff may contact that individual regarding the confidential information submitted in this questionnaire.

Name	
Title	
Email	
Telephone	

II-1. **Purchases.**--

(a) Report, as indicated below, your firm's purchases (either directly or through a sales agent or broker) of **CSPV cells (in cell form)**. Report based on delivery date, not order date.

Item	2016	2017	2018	January- June 2018	January- June 2019
	Quantity (kilowatts)				
<b>Purchases of CSPV cells produced in:</b>					
United States					
All other countries <sup>1</sup>					
Total purchases	0	0	0	0	0
<sup>1</sup> Please identify these countries:					

(b) Report, as indicated below, your firm's purchases (either directly or through a sales agent or broker) of **CSPV modules**. Report based on delivery date, not order date.

Item	2016	2017	2018	January- June 2018	January- June 2019
	Quantity (kilowatts)				
<b>Purchases of CSPV modules made from cells produced in:</b>					
United States					
All other countries <sup>1</sup>					
Total purchases	0	0	0	0	0
<sup>1</sup> Please identify these countries:					

**Note.--If your answers to questions II-2 and II-3 below differ for CSPV cells or CSPV modules (or some other such breakout), then please explain.**

**II-2. Purchases before and after safeguard measure went into effect.**

(a) Did your firm purchase imported CSPV products before February 7, 2018?

No--skip to II-3       Yes

(b) If yes, has your pattern of purchasing imported CSPV products changed since February 7, 2018?

<input type="checkbox"/>	No, our pattern of purchasing is essentially unchanged.
<input type="checkbox"/>	Yes, we discontinued purchases of imports because of the safeguard measure.
<input type="checkbox"/>	Yes, we reduced purchases of imports because of the safeguard measure.
<input type="checkbox"/>	Yes, but we changed the pattern of purchases of imports for reasons other than the safeguard measure (please explain below).

**II-3. Changes in purchasing patterns.--Please indicate how the shares of your firm's purchases of CSPV products from different sources have changed since February 7, 2018.**

Source of purchases	Did not purchase	Decreased	Increased	Constant	Fluctuated	Explanation for trend
United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All other countries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**PART III.--MARKET CHARACTERISTICS AND PURCHASING PRACTICES**

III-1. **Firm type.**--Which of the following describes your firm as a purchaser of CSPV products? Check all that apply.

<input type="checkbox"/>	Residential installer
<input type="checkbox"/>	Commercial installer
<input type="checkbox"/>	Utility company/developer
<input type="checkbox"/>	Distributor of cells
<input type="checkbox"/>	Distributor of modules
<input type="checkbox"/>	Module assembler
<input type="checkbox"/>	Distributor of off grid portable consumer goods
<input type="checkbox"/>	Other (Describe: _____)

**Note.**--If your answers to questions in Part III differ for CSPV cells or CSPV modules (or some other such breakout), then please explain.

III-2. **Demand trends.**--Indicate how demand within the United States and outside of the United States (if known) for CSPV products has changed since February 7, 2018, and how you anticipate demand will change in the future. Explain any trends and describe the principal factors that have affected, and that you anticipate will affect, these changes in demand.

Market	Sector	Overall increase	No change	Overall decrease	Fluctuate with no clear trend	Explanation and factors
<b>Demand since February 7, 2018</b>						
Within the United States	Residential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Commercial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Utility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Outside the United States	All sectors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Anticipated future demand</b>						
Within the United States	Residential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Commercial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Utility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Outside the United States	All sectors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-3. **Conditions of competition.**--Have there been any changes in the business cycles or conditions of competition for CSPV products since February 7, 2018?

No	Yes	If yes, describe.
<input type="checkbox"/>	<input type="checkbox"/>	

III-4. **Government incentives.**—Have changes in the level or availability of government incentives affected demand for CSPV products since February 7, 2018? In the last column, list or describe the principal incentive programs (e.g., Solar Investment Tax Credit, Section 1603 Program, Renewable Portfolio Standards, or California Solar Initiative) whose change in level or availability has affected demand.

Market	Overall increase	No change	Overall decrease	Fluctuate with no clear trend	Incentives and explanation of demand trends
State and local government incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Federal government incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-5. **Conventional energy sources.**—How have changes in the price of electricity generated from U.S. conventional energy sources affected the price of solar generated electricity since February 7, 2018? Explain any trends and describe the principal factors that have affected these changes in price.

Overall price increase	No Change in price	Overall price decrease	Fluctuate with no clear trend	Explanation and factors
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**III-6. Availability of supply.—**

(a) Has the availability of CSPV cells in the U.S. market changed since February 7, 2018?

<b>Availability of cells in the U.S. market</b>	<b>No</b>	<b>Yes</b>	<b>Please explain, noting the countries and reasons for the changes.</b>
<b>Changes since February 7, 2018:</b>			
U.S.-produced product	<input type="checkbox"/>	<input type="checkbox"/>	
Imports from other countries	<input type="checkbox"/>	<input type="checkbox"/>	

(b) Has the availability of CSPV modules in the U.S. market changed since February 7, 2018?

<b>Availability of modules in the U.S. market</b>	<b>No</b>	<b>Yes</b>	<b>Please explain, noting the countries and reasons for the changes.</b>
<b>Changes since February 7, 2018:</b>			
U.S.-produced product	<input type="checkbox"/>	<input type="checkbox"/>	
Imports from other countries	<input type="checkbox"/>	<input type="checkbox"/>	

**III-7. Supply constraints.—**Has any firm refused, declined, or been unable to supply your firm with CSPV products since February 7, 2018 (examples include placing customers on allocation or “controlled order entry,” declining to accept new customers or renew existing customers, delivering less than the quantity promised, been unable to meet timely shipment commitments, etc.)?

<b>No</b>	<b>Yes</b>	<b>If yes, please describe.</b>
<input type="checkbox"/>	<input type="checkbox"/>	

III-8. **Availability of specific product types.**--Are certain wattages/types/technologies/sizes of CSPV products available from only certain country sources?

<b>No</b>	<b>Yes</b>	<b>If yes, please identify the country/countries and the wattages/types/technologies/sizes.</b>
<input type="checkbox"/>	<input type="checkbox"/>	

III-9. **Change in suppliers.**--Has your firm changed suppliers since February 7, 2018?

<b>No</b>	<b>Yes</b>	<b>If yes, please list the supplier(s), whether the firm was added or dropped, and the reasons for the change.</b>
<input type="checkbox"/>	<input type="checkbox"/>	

III-10. **Bankability.**--Has the role of bankability in your or your customers' purchasing decisions changed since February 7, 2018?

<b>No</b>	<b>Yes</b>	<b>If yes, please describe.</b>
<input type="checkbox"/>	<input type="checkbox"/>	

III-11. **Effect of section 232 duties on raw material prices.**--Did the announcement of the 232 investigation in April 2017 or the subsequent imposition of tariffs on imported steel and aluminum products beginning in March 2018 have an impact on the raw material prices for CSPV products?

<b>Yes</b> —Please indicate the impact in the table below.	<b>No</b>	<b>Don't know</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Item	Increase	No change	Decrease	Fluctuate with no clear trend	Explanation and factors
Raw material costs for CSPV products in the U.S. market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Prices for CSPV products in the U.S. market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

III-12. **Impact of section 301 duties.**— This question concerns the section 301 investigation and subsequent announcement of additional tariffs that include CSPV products proposed and implemented by the United States in response to Chinese trade practices.

- (a) Did the announcement of the 301 investigation in June 2018 or the subsequent imposition of tariffs on Chinese-origin products have an impact on the CSPV products market?

<b>Yes</b> — Please indicate the impact in the table below.	<b>No</b>	<b>Don't know</b>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (b) Please indicate the impact of the announcements and subsequent imposition of duties under the section 301 investigation.

<b>Item</b>	<b>Overall increase</b>	<b>No change</b>	<b>Overall decrease</b>	<b>Fluctuate with no clear trend</b>	<b>Explanation and factors</b>
Overall demand/anticipated demand for CSPV products in the U.S. market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Supply/anticipated supply of CSPV products in the U.S. market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Prices/anticipated prices for CSPV products in the U.S. market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Raw material costs/anticipated raw material costs for CSPV products in the U.S. market	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



**III-13. Price related factors.—**

(a) Please indicate whether changes in the following factors have tended to increase, decrease, or have had no effect on the price of CSPV products in the U.S. market since February 7, 2018.

<b>Factor</b>	<b>Increased</b>	<b>Decreased</b>	<b>No effect</b>
Competition between U.S. producers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of competition from substitute products (e.g. thin film)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of competition from imports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cost of raw materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Domestic production capacity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allocation of production capacity to alternate products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Productivity of domestic producers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Labor agreements, contracts, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transportation/delivery cost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Market patterns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demand in the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demand outside the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State and local government incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prices of conventional energy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technology improvements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Section 201 Safeguard measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-13. **Price related factors.**—Continued.

(b) Please rate the importance of changes in the following factors based on their contribution to the price of CSPV products since February 7, 2018.

Factor	Very important	Somewhat important	Not important
Competition between U.S. producers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of competition from substitute products (e.g. thin film)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of competition from imports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cost of raw materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Domestic production capacity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allocation of production capacity to alternate products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Productivity of domestic producers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Labor agreements, contracts, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transportation/delivery cost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Market patterns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demand in the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demand outside the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State and local government incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prices of conventional energy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technology improvements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Section 201 Safeguard measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(c) Please provide any detailed discussion/elaboration on factors affecting price changes of CSPV products in the U.S. market since February 7, 2018.

III-14. Based on your firm's experience, have domestic producers taken the following actions since February 7, 2018? If so, please specify the producer(s) and product(s) involved.

<b>Action</b>	<b>No</b>	<b>Yes</b>	<b>Please explain, noting the producer(s) and product(s) involved.</b>
Introduction of new or innovative product	<input type="checkbox"/>	<input type="checkbox"/>	
Improved product quality	<input type="checkbox"/>	<input type="checkbox"/>	
Expansion of marketing efforts, including e-commerce	<input type="checkbox"/>	<input type="checkbox"/>	
Improvements in customer service	<input type="checkbox"/>	<input type="checkbox"/>	
Other efforts to make a positive adjustment to import competition (please identify)	<input type="checkbox"/>	<input type="checkbox"/>	

**PART IV.— ADDITIONAL INFORMATION**

IV-1. **Other explanations.**--If your firm would like to further explain a response to any question that did not provide a narrative response box, please note the question number and the explanation in the space provided below.

--

IV-2. **OMB statistics.**--Please report the actual number of hours required and the cost to your firm of completing this questionnaire.

Hours	Dollars

The questions in this questionnaire have been reviewed with market participants to ensure that issues of concern are adequately addressed and that data requests are sufficient, meaningful, and as limited as possible. Public reporting burden for this questionnaire is estimated to average 25 hours per response, including the time for reviewing instructions, gathering data, and completing and reviewing the questionnaire.

We welcome comments regarding the accuracy of this burden estimate, suggestions for reducing the burden, and any suggestions for improving this questionnaire. Please attach such comments to your response or send them to the Office of Investigations, USITC, 500 E St. SW, Washington, DC 20436.

## HOW TO FILE YOUR QUESTIONNAIRE RESPONSE

This questionnaire is available as a “fillable” form in MS Word format on the Commission’s website at:

[https://usitc.gov/investigations/title\\_7/2017/crystalline\\_silicon\\_photovoltaic\\_cells\\_whe ther\\_or/safeguard.htm](https://usitc.gov/investigations/title_7/2017/crystalline_silicon_photovoltaic_cells_whe ther_or/safeguard.htm)

**Please do not attempt to modify the format or permissions of the questionnaire document.** Please submit the completed questionnaire using one of the methods noted below. If your firm is unable to complete the MS Word questionnaire or cannot use one of the electronic methods of submission, please contact the Commission for further instructions.

- **Upload via Secure Drop Box.**—Upload the MS Word questionnaire along with a scanned copy of the signed certification page (page 1) through the Commission’s secure upload facility:

**Web address:** <https://dropbox.usitc.gov/oinv/>      **Pin:** **CSPV**

- **E-mail.**—E-mail the MS Word questionnaire to [aimee.larsen@usitc.gov](mailto:aimee.larsen@usitc.gov); include a scanned copy of the signed certification page (page 1). *Submitters are strongly encouraged to encrypt nonpublic documents that are electronically transmitted to the Commission to protect their sensitive information from unauthorized disclosure. The USITC secure drop-box system and the Electronic Document Information System (EDIS) use Federal Information Processing Standards (FIPS) 140-2 cryptographic algorithms to encrypt data in transit. Submitting your nonpublic documents by a means that does not use these encryption algorithms (such as by email) may subject your firm’s nonpublic information to unauthorized disclosure during transmission. If you choose a non-encrypted method of electronic transmission, the Commission warns you that the risk of such possible unauthorized disclosure is assumed by you and not by the Commission.*

**If your firm does not purchase CSPV products,** please fill out page 1, print, sign, and submit a scanned copy to the Commission.

**Parties to this proceeding.**--If your firm is a party to this proceeding, it is required to serve a copy of the completed questionnaire on parties to the proceeding that are subject to administrative protective order (see 19 C.F.R. § 206.17). A list of such parties may be obtained from the Commission’s Secretary (202-205-1803). A certificate of service must accompany the completed questionnaire you submit (see 19 C.F.R. § 206.17). Service of the questionnaire must be made in paper form.