Contribution ID: 8bdb3a3c-6742-4bb8-98dd-24c066094636

Date: 12/04/2022 08:57:05

An EU strategy for solar energy - public consultation questionnaire

|--|--|

Introduction

About this Consultation

With the proposal for a revision of the Renewable Energy Directive adopted on 14 July 2021 as part of the Delivering the European Green Deal package, the EU is setting out its aim of doubling the share of renewables in the energy mix compared to 2020, to reach at least 40% in 2030. The current pace of deployment of projects and market penetration will need to accelerate significantly to meet the needed capacity increase, while supporting the environmental performance of the relevant technologies. A strategy specifically for solar technologies is needed to underpin the efforts of authorities, producers, consumers and stakeholders.

In this context and in line with 'better regulation' principles, the Commission is launching this public consultation designed to gather stakeholder views on matters relating to the objectives of the Communication on an EU solar energy strategy.

What is the purpose of the communication?

The EU solar energy strategy aims at helping unlock solar energy's potential in contribution to the European Green Deal objectives, including its key role to achieve climate and energy targets. It will analyse the state of play of solar energy across the EU, identify barriers and propose measures to accelerate deployment, ensure that the public reap related opportunities as well as enhance system integration. It will also consider avenues to foster EU competitiveness along the solar energy value chain.

How can I participate?

You can complete this questionnaire through the Commission website until 12 April 2022. Please use the button at the end of the questionnaire to upload feedback in other document formats. A synopsis report of this public consultation, as well as a summary of all consultation activities' results will be published on this page at the end of the consultation period.

You may choose to answer any or all of the questions.

Please note: In order to ensure a fair and transparent consultation process only responses received through our online questionnaire will be taken into account and included in the report summarising the responses.

Should you have a problem completing this questionnaire or if you require particular assistance, please contact ENER-C1-SECRETARIAT@ec.europa.eu.

About you

Danish
Dutch
English
Estonian
Finnish
French
German
Greek
Hungarian
Irish
Italian
Latvian
Lithuanian
Maltese
Polish
Portuguese
Romanian
Slovak
Slovenian
Spanish
Swedish
*I am giving my contribution as
Academic/research institution
Business association
Company/business organisation
Consumer organisation
EU citizen
Environmental organisation
Non-EU citizen
Non-governmental organisation (NGO)

*Language of my contribution

Bulgarian

Croatian

Czech

Trade union			
Other			
*First name			
Marja			
*Surname			
Rankila			
*Email (this won't be p	ublished)		
marja.rankila@energia.fi			
*Organisation name			
255 character(s) maximum			
Finnish Energy			
*Organisation size Micro (1 to 9 em Small (10 to 49 e) Medium (50 to 2	employees) 49 employees)		
Large (250 or m	ore)		
Transparency register	number		
255 character(s) maximum Check if your organisation is influence EU decision-making		ter. It's a voluntary database for	organisations seeking to
68861821910-84			
*Country of origin			
Please add your country of or Afghanistan	Djibouti	Libya	Saint Martin
Aland Islands	Dominica	Liechtenstein	Saint Pierre and Miquelon

Public authority

0	Albania	0	Dominican	0	Lithuania		Saint Vincent
			Republic				and the
							Grenadines
	Algeria		Ecuador	0	Luxembourg		Samoa
	American Samoa		Egypt	0	Macau		San Marino
	Andorra		El Salvador		Madagascar		São Tomé and
							Príncipe
	Angola		Equatorial Guinea	3 [©]	Malawi		Saudi Arabia
0	Anguilla		Eritrea		Malaysia		Senegal
0	Antarctica		Estonia		Maldives		Serbia
	Antigua and		Eswatini		Mali		Seychelles
	Barbuda						
0	Argentina		Ethiopia		Malta		Sierra Leone
	Armenia		Falkland Islands		Marshall Islands		Singapore
	Aruba		Faroe Islands	0	Martinique		Sint Maarten
	Australia		Fiji	0	Mauritania		Slovakia
	Austria	0	Finland	0	Mauritius		Slovenia
	Azerbaijan		France		Mayotte		Solomon Islands
	Bahamas		French Guiana	0	Mexico		Somalia
	Bahrain		French Polynesia		Micronesia		South Africa
	Bangladesh		French Southern		Moldova		South Georgia
			and Antarctic				and the South
			Lands				Sandwich
							Islands
0	Barbados		Gabon		Monaco		South Korea
	Belarus		Georgia		Mongolia		South Sudan
	Belgium		Germany		Montenegro		Spain
	Belize		Ghana		Montserrat		Sri Lanka
	Benin		Gibraltar	0	Morocco		Sudan
0	Bermuda		Greece	0	Mozambique	0	Suriname
	Bhutan		Greenland	0	Myanmar/Burma		Svalbard and
							Jan Mayen
	Bolivia		Grenada		Namibia		Sweden

	Bonaire Saint Eustatius and Saba	0	Guadeloupe		Nauru	0	Switzerland
0	Bosnia and Herzegovina	0	Guam	0	Nepal	0	Syria
0	Botswana		Guatemala	0	Netherlands	0	Taiwan
0	Bouvet Island	0	Guernsey	0	New Caledonia	0	Tajikistan
0	Brazil		Guinea	0	New Zealand	0	Tanzania
0	British Indian Ocean Territory	0	Guinea-Bissau	0	Nicaragua	0	Thailand
0	British Virgin Islands	0	Guyana	0	Niger	0	The Gambia
0	Brunei		Haiti		Nigeria	0	Timor-Leste
0	Bulgaria		Heard Island and		Niue	0	Togo
			McDonald Islands	3			
0	Burkina Faso		Honduras		Norfolk Island	0	Tokelau
0	Burundi		Hong Kong	0	Northern	0	Tonga
					Mariana Islands		
0	Cambodia		Hungary	0	North Korea	0	Trinidad and
							Tobago
0	Cameroon		Iceland	0	North Macedonia	0	Tunisia
0	Canada		India	0	Norway	0	Turkey
	Cape Verde		Indonesia	0	Oman	0	Turkmenistan
0	Cayman Islands		Iran	0	Pakistan	0	Turks and
							Caicos Islands
0	Central African		Iraq		Palau	0	Tuvalu
	Republic						
0	Chad		Ireland		Palestine	0	Uganda
0	Chile		Isle of Man	0	Panama	0	Ukraine
0	China		Israel		Papua New	0	United Arab
					Guinea		Emirates
0	Christmas Island		Italy		Paraguay	0	United Kingdom
	Clipperton		Jamaica	0	Peru	0	United States

0	Cocos (Keeling)	Japan	0	Philippines	0	United States
	Islands					Minor Outlying
						Islands
	Colombia	Jersey		Pitcairn Islands		Uruguay
	Comoros	Jordan	0	Poland	0	US Virgin Islands
0	Congo	Kazakhstan		Portugal	0	Uzbekistan
0	Cook Islands	Kenya		Puerto Rico	0	Vanuatu
0	Costa Rica	Kiribati		Qatar	0	Vatican City
0	Côte d'Ivoire	Kosovo		Réunion	0	Venezuela
0	Croatia	Kuwait		Romania	0	Vietnam
0	Cuba	Kyrgyzstan		Russia	0	Wallis and
						Futuna
0	Curaçao	Laos		Rwanda	0	Western Sahara
0	Cyprus	Latvia		Saint Barthélemy		Yemen
0	Czechia	Lebanon		Saint Helena	0	Zambia
				Ascension and		
				Tristan da Cunha		
0	Democratic	Lesotho		Saint Kitts and	0	Zimbabwe
	Republic of the			Nevis		
	Congo					
0	Denmark	Liberia		Saint Lucia		

The Commission will publish all contributions to this public consultation. You can choose whether you would prefer to have your details published or to remain anonymous when your contribution is published. Fo r the purpose of transparency, the type of respondent (for example, 'business association, 'consumer association', 'EU citizen') country of origin, organisation name and size, and its transparency register number, are always published. Your e-mail address will never be published. Opt in to select the privacy option that best suits you. Privacy options default based on the type of respondent selected

*Contribution publication privacy settings

The Commission will publish the responses to this public consultation. You can choose whether you would like your details to be made public or to remain anonymous.

Anonymous

Only organisation details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published as received. Your name will not be published. Please do not include any personal data in the contribution itself if you want to remain anonymous.

Public

Organisation details and respondent details are published: The type of respondent that you responded to this consultation as, the name of the organisation on whose behalf you reply as well as its transparency number, its size, its country of origin and your contribution will be published. Your name will also be published.

I agree with the personal data protection provisions

About you - continued

1. Are you:

- Electricity market undertaking related to the integration of distributed solar installations (supplier, aggregator, etc)
- Utility-scale producer of electricity from solar energy
- Solar project developer
- Consumer organisation
- Public authority
- NGO
- Small or medium-sized business
- Primary agricultural producer, including farmer and forester
- Owner of Industrial facility
- Solar energy product (hardware) manufacturer
- Digital solutions developer
- Research and Innovation Organisation
- An individual that produces and consumes solar energy
- Other

If other please specify

100 character(s) maximum
Business organisation
 2. What solar energy technology do you work with, if any? Solar photovoltaic – utility grid Solar photovoltaic – distributed Solar thermal – for industrial / agricultural application Solar thermal – domestic use Solar thermal – district heating Concentrated solar power (CSP)/Solar thermal electricity (STE) Other
 3. In which markets are you active? All EU countries Some EU countries Non-EU countries 3c. which countries specifically?
500 character(s) maximum
Finland
 4. Do you represent either a renewable energy community in the sense of the Renewable Energy Directive or a citizen energy community in the sense of Electricity Market Directive? Yes No
 5. Are you or do you represent an owner / owners of distributed, small-scale solar energy production? Yes No
Accelerating the deployment of solar energy projects

6. What are the key barriers that delay or prevent new utility grid solar energy projects (photovoltaic -PV or concentrated solar power - CSP) from materialising? Please assess their importance, separately for each technology, with 5 being the highest level of importance.

	PV:	PV: 2	PV:	PV: 4	PV: 5	PV: no opinion	CSP:	CSP:	CSP:	CSP:	CSP:	CSP: no opinion
Obstacles / lack of clarity related to permitting procedures			V									V
Regulatory framework impacting the business case			V									V
Conflicting environmental regulations	V											V
Lack of public acceptance	V											V
Grid connection issues	V											V
Increased uncertainty of curtailments	V											V
Other	V											V

If other please specify

1	O character(s) maximum	

6c. Comment

300 character(s) maximum

Boost new projects with voluntary measures, not with binding targets or at the expence of technology neutrality.

Financial support only to R&D and pilots.

Harmonizing and accelerating national permitting.

Geographical barriers need to be considered, such as solar potential & winter conditions.

7. What do you consider are the main factors that negatively affect the business case of new utility grid solar energy projects (photovoltaic -PV or concentrated solar power - CSP)? Please assess their importance, separately for each technology, with 5 being the highest level of importance.

	PV: 1	PV: 2	PV:	PV:	PV: 5	PV: no opinion	CSP:	CSP:	CSP:	CSP:	CSP:	CSP: no opinion
Competition from conventional generation installations			V									V
Competition from utility-grid solar energy production installations which receive or have received feed-in tariffs	V											V
Carbon price is not high enough	V											V
Insufficient cooperation between Member States (e.g. through the cooperation mechanisms of the Renewable Energy Directive)	V											V
Auction-based systems inadequate to ensure level playing field	V											V
Uncertainty regarding future support scheme framework	V											V
Uncertainty regarding future regulatory framework			V									V
Energy taxation framework unfavourable towards renewable electricity generation			V									V
Insufficient incentives through disclosure schemes such as guarantees of origin	V											V

Lack of incentives for behind-the-meter storage combined with solar projects	V						V
Unfavourable financing conditions				V			V
Unfavourable or uncertain market entry / dispatching of energy produced	V						V
Other	V						V

If other please specify

1	00 character(s) maximum	

7c. Comment

300 character(s) maximum

Possible competition disadvantage for solar in Finland is due to differences in technologies and also Finnish solar potential and winter conditions, not markets. Regulatory framework for all low carbon technologies need to be predictable.

8. Which do you consider to be the main factors that negatively affect the deployment of distributed, small-scale solar production installations in single-unit (SUB) or multi-unit buildings (MUB)? Please assess the importance of the following factors, separately for both categories of buildings, with 5 being the highest level of importance.

	SUB:	SUB:	SUB:	SUB:	SUB: 5	SUB: no opinion	MUB:	MUB:	MUB:	MUB:	MUB: 5	MUB: no opinion
Obstacles / lack of clarity related to permitting procedures			V						V			
Regulatory and public support framework impacting business case	V						V					
Unfavourable taxation / tariffs	V						V					
Specific issues or limitations to self-consumption related to the existing net metering / net billing schemes (e.g. limitations in capacity installed)	V						V					
Conflicting environmental / town planning regulations		V						V				
Lack of resources of owner/s to face upfront investment					V						V	
Unfavourable financing conditions		V						V				
Dwellings are used by tenant/s, therefore owner/s lack interest to invest	V									V		

Absence of or low remuneration for sales of excess electricity produced	V					V		
Unsuitability of the building (shape, size, strength, structure or shading of roof areas)		V				V		
Lack of standardisation amongst solar solutions (e.g. size of panels / tiles, method of attachment, compatibility etc)	V				V			
Lack of or limited choice of experienced solar installation companies in the area		V				V		
Only for MUB: Absence of an adequate legal framework for decision-making and representation in joint-ownership buildings (e.g. blocks of flats) with commonly owned rooftops and facades.						V		
Other				V				V

would you assess the following as disincentivising factors? (5 vel of disincentivisation) 1 2 3 etwork charges, taxes and levies e or uncertain market entry / dispatching of electricity value added services by electricity suppliers / aggregators rs", for selling excess electricity in the market on their behalf	Main negative factors for customers are doubts of economic benefits and lacinformation, and also Finnish solar potential. In Finland there is financial supbuildings. Permitting is easier but needs harmonizing within municipalities. In the absence of net-metering / net-billing schemes, do	port for	house	holds 8	k reside	ntia
etwork charges, taxes and levies e or uncertain market entry / dispatching of electricity value added services by electricity suppliers / aggregators rs", for selling excess electricity in the market on their behalf ncentives through disclosure schemes such as guarantees d you assess the following factors in preventing energy community.	ould be a lack of incentives for distributed, small-scale insection 2 1. If so, how would you assess the following as disincent be highest level of disincentivisation)				(5 be	ing
e or uncertain market entry / dispatching of electricity value added services by electricity suppliers / aggregators rs", for selling excess electricity in the market on their behalf ncentives through disclosure schemes such as guarantees d you assess the following factors in preventing energy communications and the second seco	,	1	2	3	4	5
d you assess the following factors in preventing energy commu	Applicable network charges, taxes and levies	0	•	0	0	0
rs", for selling excess electricity in the market on their behalf ncentives through disclosure schemes such as guarantees d you assess the following factors in preventing energy communications.	Unfavourable or uncertain market entry / dispatching of electricity produced	•	0	0	0	0
d you assess the following factors in preventing energy commu	Absence of value added services by electricity suppliers / aggregators to "prosumers", for selling excess electricity in the market on their behalf	•	0	0	0	0
d you assess the following factors in preventing energy commu	Insufficient incentives through disclosure schemes such as guarantees of origin	•	0	0	0	0
	Other	0	0	0	0	0
	Insufficient incentives through disclosure schemes such as guarantees of origin Other How would you assess the following factors in preventi	ng er	ergy	CC	omi	ommunit
		1	2	3	4	
1 2 3	Obstacles / lack of clarity in permitting procedures to set up energy communities	0	•	0	0	(
ack of clarity in permitting procedures to set up energy	Applicable grid tariffs for physical electricity sharing or collective self-					

If other, please specify 100 character(s) maximum

consumption

participate in energy markets

Conditions set by the system operator or the energy regulator to

Insufficient generation capacity to operate in energy markets

0

0

Obstacles related to grid connection / other infrastructure connection	•	0	0	0	0
Limited ownership / management rights on the community network	•	0	0	0	0
Lack of community engagement	0	•	0	0	0
Getting professionals on board / receiving technical advice	0	0	0	•	0
Rigid and time-consuming tender procedures for subsidies	0	•	0	0	0
Lack of cooperation of local authorities	0	0	0	0	0
Other	0	0	0	0	0

10c. Comment

500 character(s) maximum

Energy communities within properties are possible in Finland, and they don't have above mentioned barriers. The main barrier is lack of information and knowledge.

11. How would you assess the following factors in preventing solar installations in industrial areas / facilities? (5 being the highest level of prevention)

	1	2	3	4	5
Obstacles / lack of clarity related to permitting procedures	0	0	0	0	0
Lack of business case	0	0	0	0	0
Unfavourable taxation / tariffs	0	0	0	0	0
Regulatory and public support framework impacting business case	0	0	0	0	0
Conflicting environmental / town planning regulations	0	0	0	0	0
Grid connection issues	0	0	0	0	0
Unfavourable financing conditions	0	0	0	0	0
Lack of long-term visibility needed to make large investment decisions	0	0	0	0	0
Lack of incentives to use more renewable energy	0	0	0	0	0
Low potential for electrification of operations	0	0	0	0	0
Other	0	0	0	0	0

12. How would you assess the following factors in preventing further deployment of solar thermal installations in the EU? (5 being the highest level of prevention)

	1	2	3	4	5
Obstacles / lack of clarity related to permitting procedures	•	0	0	0	0

Unfavourable conditions for renewable sources connecting to the heating market or system	0	0	•	0	0
Absence of a heating system to connect to	•	0	0	0	0
Unfavourable taxation / tariffs	•	0	0	0	0
Unsuitability of the building (shape, size, strength, structure or shading of roof areas)	0	0	•	0	0
Regulatory and public support framework impacting business case	•	0	0	0	0
Conflicting environmental / town planning regulations	•	0	0	0	0
Unfavourable financing conditions	0	0	0	0	0
Hot water consumption is not enough to justify investment	•	0	0	0	0
Space heating system cannot effectively utilise hot water from a solar thermal system	•	0	0	0	0
Absence of other uses of heat (e.g. swimming pool, industrial process, etc.)	0	0	•	0	0
Other	0	0	0	0	0

12c. Comment

500 character(s) maximum

In Finland solar thermal faces unfavorable conditions as it is not available when most needed due to winter conditions in Finland.

Solar thermal collectors are more challenging to design, install and operate than PVs. Also solar thermal requires big capacitators, and these investments reduces profitability.

In Finland solar thermal would replace mainly other renewable/low-carbon production

13. How would you assess the following factors in encouraging public authorities to install solar energy in the buildings or land they own or lease? (5 being the highest level of effectiveness)

	1	2	3	4	5
Setting targets for renewable installations in public buildings	0	0	•	0	0
Legal mandates	0	0	0	0	•
Lease public building's roof for use by private companies to exploit the solar potential	0	0	0	•	0
Lease public building's roof for use by energy communities to exploit the solar potential	0	0	•	0	0
Lease publicly owned land for use by private companies or energy communities to exploit the solar potential	0	0	0	•	0
Promotion of green public procurement	0	0	0	0	0

	Other	0	0	0	0	0
hav	To primary agricultural producers including farmers / agve you invested or are you planning to invest in solar end Yes No					s:
14.	 1. If yes, in which context? As part of a net-billing / net-metering scheme As a stand-alone electricity generation installation, fee /retail market As part of an energy community Alongside electrifying my agricultural machinery set / fee To support artificial lighting for plant growing / vertical Other 	fleet				ale
14.	 2. If not, why? Lack of financing Barriers linked to permitting Barriers linked to grid connection Unclear technology choice or preference for another t production Conflict with other land uses Not a priority Other 	echn	ology	, e.g.	biog	as
fra bui	What regulatory changes would be beneficial to create mework for additional distributed photovoltaic capacity in Idings, e.g. agricultural, industrial, or recreational areas? On character(s) maximum	loca				l
Fa	cilitating system integration of solar energy produc	tion				

Focus on key categories, e.g. social housing, schools or hospitals

of solar photovoltaic installations, or solar production & stor customer choice in equipment to a particular supplier, manuline?	•	-			
3					
16.1. If so: What is this incompatibility attributed to? Incompatible communication protocol / standard Incompatible power specifications, such as voltage re	quire	ment	S		
Other 17. Do you provide flexibility services (e.g. through demand	d resc	oonse	e) to t	he lo	cal
electricity system operator? Yes	ООР		,,		Jai
No 17.1. If No, what is preventing you from doing so?					
Concerns about data protectionRegulatory barriers					
Conditions set by the local system operator or the energy flexibility services are too strict	ergy r	egula	ator to	o offe	r
Insufficient scale to offer flexibility services Other					
18. Do you consider that distributed, small-scale solar prod to sell on both wholesale and retail markets? Yes	ucers	s sho	uld be	e allo	wed
No					
18.1. How would you assess the following barriers, prevent participation? (5 being the highest level of prevention)	ing s	uch n	narke	et	
	1	2	3	4	5

16. Do you consider that compatibility / interoperability issues between components

	1	2	3	4	5
Bidding thresholds	0	0	0	0	0
Lack of opportunity to participate in several market streams (e.g. wholesale day-ahead and intraday market, or ancillary services (including balancing), or congestion management services)	0	0	0	0	0
Absence of local markets, peer-to-peer trading possibilities etc.	0	0	0	0	0

Market dominated by large utilities	0	0	0	0	0
Net metering / net billing restrictions	0	0	0	0	0
Other	0	0	0	0	0

19.	Have you installed or	do you	plan to	install a	a battery	for your	domestic (or
bus	siness needs?							

Yes

No

19.1. If yes, why?

To better align my consumption with solar production

To charge my electric vehicle at night with own solar production

To decrease dependence from the grid

To use in agriculture / industrial applications

Other

19.2. If no, how would you assess the following factors, deterring you from installing a battery for your domestic or business needs? (5 being the highest level of deterrence)

	1	2	3	4	5
Too expensive for the added value	0	0	0	0	0
High upfront costs, although it is a financially viable investment	0	0	0	0	0
Not enough space	0	0	0	0	0
Regulatory / grid connection related barriers	0	0	0	0	0
Lack of suppliers / experienced installers	0	0	0	0	0
Safety issues	0	0	0	0	0
Issues with disposal/recycling at the end of life	0	0	0	0	0
Other	0	0	0	0	0

1	9c.	C_{Ω}	m	m	۵r	٦t
- 1	JU.	\mathbf{v}			C1	ш

20. Do you consider that a common format of data for grid communication of distributed solar photovoltaic systems is necessary?

0	No			
inter dow	. Do you consider that such data production should be close to vals of electricity markets (e.g. 15 minutes), or even closer to r n to 1 or 5 minute intervals) Yes No			g.
20c.	Comment			
300	character(s) maximum			
	Common format of data for grid communication would make it easier to control distribut necessary.	ed PV c	entrally	, if
	ancing sustainability, resilience, competitiveness, innova sparency along the solar energy value chain	ation a	and	
relat	Nould you consider appropriate to apply any of the following sued measures for solar energy products/systems sold in EU, in uction and/or lifecycle?		•	
		Yes	No	Not sure
	Requiring transparency about environmental sustainability (e.g. through labelling)	0	0	•
	Requiring transparency about carbon footprint (e.g. through labelling)	0	0	•
	Requiring transparency about employment conditions (e.g. through labelling)	0	0	•
	Placing quantitative requirements (e.g. thresholds) for environmental sustainability,			<u> </u>

We welcome measures that promote sustainability, transparency, and human rights. Appropriate procedures

need to be considered. However, any labeling requirements should not be mandatory but voluntary.

carbon footprint, or other production aspects

21c. Comment

300 character(s) maximum

You may provide extra information on suggested protocols or data flow

organisation.

Yes

22

Yes					
No					
Not sure					
22c. Comment					
300 character(s) maximum					
Material availability is a risk for accelerating solar deployment. In current g s energy self-sufficiency also in solar energy sector is important.	geopolitica	al situa	tion imp	proving	EU'
23. Do you consider that supply chain challenges could h	ave a	subst	antial	limpa	act
on the availability of cost-effective solar energy solutions	in the I	EU m	arket	in th	е
medium-long term?					
3					
23c. Comment 300 character(s) maximum					
24. How would you assess the following factors in hampe generating intellectual property and innovation in relation	•		-	-	lue
chain? (5 being the highest level of hampering)	1	2	3	4	5
Lack of support to academic and research institutions	0	0	0	0	0
Limited large-scale manufacturing in EU	0	0	0	0	0
Lack of financing for start-ups	0	0	0	0	0
Process to file for EU-wide patents is too long / tedious	0	0	0	0	0
Process to file for EU-wide patents is too costly	0	0	0	0	0
Absence of possibility to file a provisional patent application at EU level securing short-term (e.g. one year) patent protection with minimal cost, until a full application is filed	0	0	0	0	0
Lack of technical and financial capacity to pursue future intellectual property disputes	0	0	0	0	0
Other	0	0	0	0	0

22. Do you consider that the EU's reliance on imported products/materials in the

solar energy sector creates vulnerabilities or risks for accelerating deployment of

solar energy?

24	24c. Comment		
ć	300 character(s) maximum		

25. How would you assess the potential of various sectors of the photovoltaic supply chain to increase the competitiveness of the EU industry? (5 being the highest level of potential)

	1	2	3	4	5
Novel technologies (e.g. heterojunction, perovskite, tandem)	0	0	0	0	0
Polysilicon production	0	0	0	0	0
Ingots & wafers production	0	0	0	0	0
Cells production	0	0	0	0	0
Modules production	0	0	0	0	0
Equipment manufacturing	0	0	0	0	0
Project engineering, procurement and construction	0	0	0	0	0
Project operation and maintenance	0	0	0	0	0
Balance of system	0	0	0	0	0
System dismantling and recycling	0	0	0	0	0
Other	0	0	0	0	0

250	Commer	٠.
200.	Comme	Ц

30	200 character(s) maximum

26. How would you assess the contribution of the following measures to the sustainability, competitiveness and resilience of the EU solar energy value chain? (5 being the highest level of contribution)

	1	2	3	4	5
Access to favourable financing conditions	0	0	0	•	0
Launch a process of Important Projects of Common European Interest for the solar energy sector	•	0	0	0	0
Secure access to raw materials by enhancing EU production	0	0	0	•	0
Secure access to raw materials through promoting diversified and undistorted international traded	0	0	0	•	0

Measures promoting fair and undistorted access to international markets for EU companies in the solar value chain, including through engagement with third countries	0	0	0	0	0
Measures promoting solar energy solutions that require customisation (e.g. building-integrated photovoltaics, agri-photovoltaics, etc.)	0	©	0	0	©
Enhance skills development in the solar energy value chain in the EU	0	0	0	•	0
Support to the development of large-scale production facilities, including through accelerated permitting	0		0	0	•
Measures promoting match-making between manufacturers and off- takers	0		0	0	©
Enhance synergies with the use for space applications	0	0	0	0	0
Other	0	0	0	0	0

26c. Comment

500 character(s) maximum						

Feedback via file upload (optional)

Only files of the type pdf,txt,doc,docx,odt,rtf are allowed

f382cfb3-a01a-4196-a3ec-cb111ce410d0/Finnish_Energy_statement_-_Solar_Energy_Strategy_20220412. pdf

Thank you, your participation is very much appreciated!

Contact

ENER-C1-SECRETARIAT@ec.europa.eu