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ESMC'S QUARTERLY RECAP

We are approaching autumn. In this communication, we summarize ESMC's last three active months' highlights, deliveries, new members and working group results.

A lot has happened in European politics since the last recap at the end of March. EU's response to the hardships and global energy market disruption caused by Russia's invasion of Ukraine, the REPowerEU plan, has been released. With it, the EU Solar Strategy was adopted. In the same week, another milestone was reached for ESMC when the European Commission and several Member States expressed official support of an IPCEI for PV Manufacturing at our PV IPCEI launching event.

In addition, the policy drafts for EcoDesign and Energy labelling are now being circulated and ESMC attended the Consultation Forum arranged by the European Commission as this legislation will affect the conditions for European PV manufacturers. ESMC has provided both organization-specific feedback and submitted input together with the Joint Mission Group (JMG) under ETIP-PV.

On another note, we are pleased to welcome several new members to the organization. Each new member increases our mandate in the European political landscape as well as enables the ESMC team to increase our activity.

Lastly, it was a pleasure to finally be able to meet many of you at Intersolar and under the IPCEI event. To exchange visions, plans and needs face to face is indeed an even better experience than only speaking digitally. That's why ESMC hosted a Biergarten event during Intersolar where we got the opportunity to socialize among members (with colleagues and friends) over Bavarian food and drinks. In autumn, we look forward to more interaction at WCPEC-8 and the other events that will take place.


Dr. Johan Lindahl
Secretary General

To strengthen our interorganizational communication, we have introduced a quarterly Recap, in which we summarize ESMC's activities, any important updates from our members, and information about any upcoming events. Please, see this communication as an invitation to interact with ESMC team and board and influence our further work.

If you have any additions to the recap or if you want an invitation to any of our working groups, feel free to contact our Secretary General Dr. Johan Lindahl: Lindahl@esmcsolar

FOLLOW ALONG WITH US



A WARM WELCOME TO THE NEW MEMBERS THAT JOINED US IN Q2

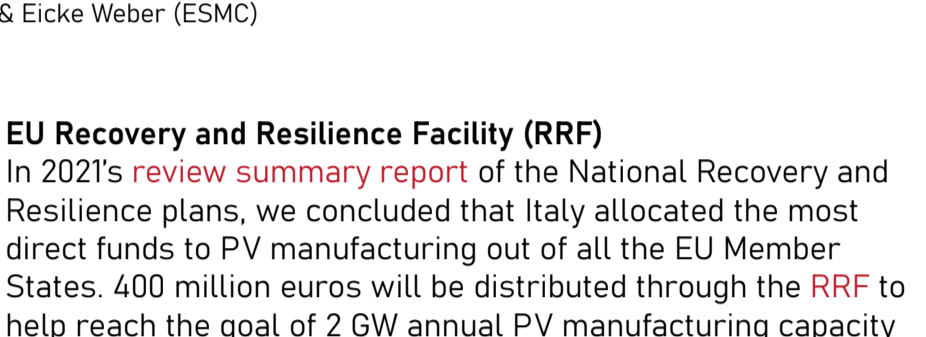
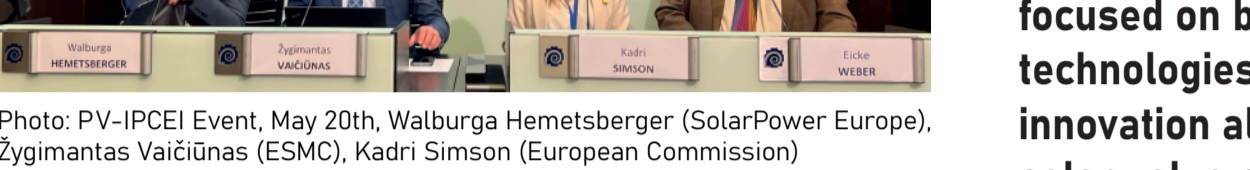


Photo: PV-IPCEI Event, May 20th, Walburga Hemetsberger (SolarPower Europe), Žygimantas Vaičiūnas (ESMC), Kadri Simson (European Commission) & Eicke Weber (ESMC)

"The Commission will support efforts from Member States to pool their public resources via a potential Important Projects of Common European Interest (IPCEI) focused on breakthrough technologies and innovation along the solar value chain"

EU Recovery and Resilience Facility (RRF)

In 2021's **review summary report** of the National Recovery and Resilience plans, we concluded that Italy allocated the most direct funds to PV manufacturing out of all the EU Member States. 400 million euros will be distributed through the RRF to help reach the goal of 2 GW annual PV manufacturing capacity by December 2025. **Invitalia**, the National Agency for Inward Investment and Economic Development, will manage the project funding. In a joint workshop for ESMC members on June 14th, they presented their services, the funding conditions and the general process. Find the material [here](#).

EcoDesign and Energy Labelling

The European Commission is advancing on EcoDesign and Energy Label mandatory regulation for PV modules and inverters, in addition to voluntary Green Public Procurement. In June, ESMC attended the Consultation Forum in Brussels, providing our **specific feedback points** to the Commission, as well as standing behind the **joint Industry Feedback** through the Joint Mission Group.

Innovative renewable technologies in REDIII

The recast of the Renewable Energy Directive (REDIII) provides a unique opportunity scale-up innovative renewable technologies. ESMC has joined a coalition of industry and research actors which in a **letter** call on the EU's legislators to include that all Member States shall set a national indicative target to ensure that at least 5 % of new installed renewable power and heating and cooling capacity until 2030 shall be of innovative renewable energy technologies.

Third Innovation Fund Large Scale Call

As part of the **REPowerEU Plan** the European Commission will double the funding available for the 2022 **Large Scale Call** of the Innovation Fund this autumn to around EUR 3 billion. Apart from the general call for proposals, three 'specific REPowerEU windows will support (1) innovative electrification and hydrogen applications in industry, (2) innovative clean tech manufacturing (such as electrolyzers and fuel cells, innovative renewable equipment, energy storage or heat pumps for industrial uses), and (3) mid-sized pilot projects for validating, testing and optimizing highly innovative solutions'. Together with other Renewable Energy Associations, ESMC meet with DG CLIMA in a workshop the 28th of June to give input for this up-coming third Large Scale call.

EU Solar Strategy and the EU Solar PV Industry Alliance

The **EU Solar Strategy** was adopted on May 18th, and most of ESMC's **proposals** were included.

Our central proposal to create a financial vehicle to de-risk the investments into PV manufacturing along the value chain has been recognized by the European Commission's proposal, through the establishment of a **EU Solar PV Industry Alliance**, which will map the availability of financial support, attract private investment and facilitate dialogue and match-making between producers and off-takers.

ESMC welcomes and supports such a dedicated framework. In June, ESMC released concrete **framework proposals** for the EU Solar PV Industry Alliance. The core message to the Commission is that all measures investigated and taken should ensure fast European PV manufacturing capacity deployment along the full value chain and across the whole EU.

Important Projects of Common European Interest (IPCEI)

In summer 2021, ESMC initiated the process to create an IPCEI for PV manufacturing in cooperation with the partner organizations of the **European Solar Initiative**. The consortium currently gathers 57 members from 14 European countries, and there is still an open invitation to join the framework. In May 2022, the official launch of the IPCEI took place in Brussels. The **PV-IPCEI** event brought together high-level representatives from the European Commission, Member States, and the PV manufacturing industry to present and discuss the ongoing progress, the current geopolitical and market environment and to foresee the next steps to start the necessary PV-IPCEI policy and regulatory actions.

Additionally, the recently adopted **EU Solar Strategy** clearly express the support from the European Commission for the IPCEI: "The Commission will support efforts from Member States to pool their public resources via a potential Important Projects of Common European Interest (IPCEI) focused on breakthrough technologies and innovation along the solar value chain."

Six Member States – Austria, Belgium Lithuania, Luxembourg, Poland and Spain – have already expressed their **full support** for the launched PV-IPCEI framework. A very positive announcement at the event was that Spain expressed that they are prepared to lead and coordinate the PV-IPCEI process.

IPCEI PROJECTS

No.	Project title	Confirmed partners
1.	Industrializing heterojunction cell and module technology to the gigawatt scale	MIC, SINGULUS, IPVF, MO, NorSun, SIEMENS, ENEC, halm, enel, Ullrich, NEXWAFE, Ines, R E N A , Fraunhofer, Soltec, APPLIED MATERIALS, VITRONIC, VOLTEC, Photowatt, C22, CENER, RISE Technology, WUN ARDENNE, ZS-Handling, team techniek, ASSOCIATION OF PV MANUFACTURERS, TNO, tecna a, solarge, OXFORD PV, eurac research
2.	Manufacturing of TOPCon PV cells and silver paste	GIGA PV, C22, RCT, APPLIED MATERIALS, Fraunhofer, R E N A , ISC, solaris, SINGULUS, VITRONIC, halm, Ines, TNO, RISE Technology, IEO, KGHM, IPVF
3.	Industrializing Tandem PV technology to the Gigawatt scale	enel, ISC, lmecc, VOLTEC, SIEMENS, MO, Soltec, IPVF, CENER, MIC, NorSun, RISE Technology, SOLARWATT, SINGULUS, C22, WUN ARDENNE, halm, ASSOCIATION OF PV MANUFACTURERS, SOLARIS, ASSOCIATION OF PV MANUFACTURERS, APPLIED MATERIALS, eurac research, R E N A , OXFORD PV, TNO, EVCLAR, VITRONIC, Ines
4.	PV integrated solutions	SOLTEK, eurac research, RCT, SIEMENS, SmartEnergy, VALOE, SOLEAN, PROTECH, SOLARWATT, Ines, ISC, ZS-Handling, ASSOCIATION OF PV MANUFACTURERS, tecna a, metsolar, C22, MO, VITRONIC, SOLARWATT, TNO, CENER
5.	Circular PV production	REC Solar, ENEC, SINTEF, NorSun, MIC, AGC, ISC, SOLTEK, APPLIED MATERIALS, eurac research, LuxChemtech, IFE, 3S Solar Plus, SOLARWATT, enel, Fraunhofer, FuturaSun, IPVF, solarge, Ines, Standex, VOLTEC, SmartEnergy, COVEME
6.	Industrializing IBC solar cell and module technology to Gigawatt scale	ISC, solaris, VALOE, FuturaSun, lmecc, SINGULUS, SOLTEK, ASSOCIATION OF PV MANUFACTURERS, APPLIED MATERIALS, PROTECH, WUN ARDENNE, IPVF, eurac research, team techniek, NorSun, GIGA PV, IEO, SOLARWATT, TNO, Ines, tecna a, Fraunhofer, LuxChemtech, RISE Technology, R E N A , RCT

ESMC BOARD 2022/2023

At the general assembly, ESMC's new board of directors was elected. We are happy to inform that there was a strong interest to be a part of our Board, and thereby to help steer the direction of our organisation.

Already active for five months, we wish to take the opportunity to again welcome and present to present our co-chairs **Eicke R. Weber** (MCPV), **Gaëtan Masson** (Becquerel Institute) & **Carsten Rohr** (Norsun), our vice-chair **Vincent Bès** (Photowatt) and our 11 board directors **Andreas Bett** (Fraunhofer ISE), **Lucas Weiss** (Voltec Solar), **Kathrin Theelen** (Evolar), **Davor Sutija** (Nexwafe), **Stephan Abermann** (AJT), **Anis Jouini** (Ines), **Torgeir Ulset** (Rec Solar), **Chris Case** (Oxford PV), **Radovan Kopecek** (ISC Konstanz), **Richard Moreth** (Vitronic) and **Stefan Rinck** (Singulus).



MADE IN EUROPE PHOTOVOLTAICS - THE SHORT FILM

We are happy to share the news that the documentary and collaborative film "Made in EU PV" have been released. This film has been written and directed by Louis Jourdan Huber and produced by Green Square. It showcases the existing European PV industry and puts it in a global context, making clear connections to the added value and importance of a European PV Industry Renaissance.

ESMC was a cooperation partner for the project. The short film is technology neutral, and the editorial committee is composed of EERA-PV (with Veto right), alongside ESMC, HZB, TNO and Green Square.

Click on the picture below to see the film.



OFFICIAL PRESENTATIONS IN Q2

Date	Conference	Organizer	ESMC representative
6 April	Solar for Net-Zero – Expanding Solar Manufacturing Globally	Clean Energy Ministerial Secretariat (CEM)	Eicke R. Weber
8 April	1st International Integrated PV Workshop: The Importance of IPV for the Energy Transformation	SERIS Singapore	Eicke R. Weber
4 May	ETIP-PV: Strengths of PV and ongoing initiatives	ETIP-PV	Žygimantas Vaičiūnas
12 May	Meet the European PV Manufacturing industry with the European Solar Initiative	European Solar Initiative (at Intersolar)	Johan Lindahl Žygimantas Vaičiūnas
20 May	PV-IPCEI launching event	ESMC	Žygimantas Vaičiūnas Eicke R. Weber
25 May	Lithuanian Davos 2022	Democracy Development Fund	Žygimantas Vaičiūnas
28 June	PV Magazine Roundtable – Made in Europe: Bulking up, building out	PV Magazine	Žygimantas Vaičiūnas Carsten Rohr

OFFICIAL MEETINGS IN Q2

Date	Meeting	Title	Meeting topic
20 April	Philippe Malbranche	Programme Director of International Solar Alliance	ESMC/International Solar Alliance meeting about the European Commission president visit
14 June	Maurizi Massimiliano	Responsible for Logistics and Energy at Invitalia	Workshop: Italian financial incentives for European PV manufacturing industry investments, with several ESMC Member companies and organisations participating.
	Cristina Ottaviano	Renewable Energy Specialist at Invitalia	
	Parrinello Donato	High-tech FDI Specialist at Invitalia	
	Robbe Lorenzo	Project Manager – International companies and investors at Invitalia	
27 June	Davide Polverini	Policy Officer at DG Grow, European Commission	Consultation Forum: Ecodesign and Energy Labelling, meeting on potential Ecodesign and Energy labelling requirements for photovoltaic modules and inverters
28 June	Maria Velkova	Deputy Head of Unit – Finance for Innovation at DG Grow, European Commission	Workshop: DG CLIMA Innovation Fund
	Carla Benauges	Policy Officer at DG Climate, European Commission	
	Roxana Chesoi	Policy Assistant at DG Climate, European Commission	