

Market Uptake of Solar Thermal Electricity

MUSTEC – Market Uptake of Solar Thermal Electricity

MUSTEC was launched in October 2017 and is funded by the EU Horizon 2020 program. MUSTEC’s aim is to explore and propose concrete solutions to overcome the barriers that hinder the deployment of solar thermal electricity (STE) and concentrated solar power (CSP) projects in Southern Europe which are capable of supplying renewable electricity on demand to Central and Northern Europe.

MUSTEC Final Conference

A promotional poster for the MUSTEC Final Conference. At the top left is the MUSTEC logo with the text "Market Uptake of Solar Thermal Electricity". At the top right is the website URL "https://www.mustec.eu". In the center, a dark blue box contains the text "SAVE THE DATE". To the right of this box, the text reads "Final Conference Monday 22 March 2021 09.00 - 12.30 CET". At the bottom, there is a row of logos for various partners: the Spanish Government (GOBIERNO DE ESPAÑA, MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD), Ciemat, ESTELA, elcano (REAL INSTITUTO ICNIA), Fraunhofer, IASS POTSDAM, cobra, TEESlab (University of Pavia Research Center), TU WIEN, and CSIC.

Join MUSTEC researchers in this interesting discussion on the achieved outcomes and the roadmap for CSP deployment. A panel discussion with representatives from EU and national policy makers, as well as the CSP industry will also take place.

More info on the agenda and registration is available on the [MUSTEC website](https://www.mustec.eu).

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The MUSTEC project has received funding from the European Union’s Horizon 2020 research and innovation program under grant agreement No 764626



In the light of the EU 2030 Climate and Energy framework, MUSTEC aims to explore and propose concrete solutions to overcome the various factors that hinder the deployment of STE / CSP projects in Southern Europe capable of supplying renewable electricity on demand to Central and Northern European countries.

MUSTEC Scientific Publications

A total of 8 scientific publications have been produced within the project duration and are accessible for review.

- ◇ Caldés N., del Río P., Lechón Y., Gerbeti A. Renewable Energy Cooperation in Europe: What Next? Drivers and Barriers to the Use of Cooperation Mechanisms. *Energies* 2019, 12, 70. <https://www.mdpi.com/1996-1073/12/1/70>
- ◇ Lilliestam, J., Pitz-Paal, R. (2018). Concentrating solar power for USD 0.07 per kWh - finally the breakthrough?, in: *Renewable Energy Focus* 26, pp. 17-21. <https://doi.org/10.1016/j.ref.2018.06.002>
- ◇ Lilliestam, J., Ollier, L., Pfenninger, S. (2019). The Dragon awakens: is China saving or conquering concentrated solar power?, in: AIP conference proceedings 2126 (1), 130006. <https://doi.org/10.1063/1.5117648>.
- ◇ Lilliestam J., Ollier L., Labordena M., Pfenninger S., Thonig R. (2020). The near-to mid-term outlook for concentrating solar power: mostly cloudy, chance of sun, *Energy Sources, Part B: Economics, Planning, and Policy*. <https://doi.org/10.1080/15567249.2020.1773580>
- ◇ Papadopoulou A.G., Vasileiou G., Flamos A. A Comparison of Dispatchable RES Technoeconomics: Is There a Niche for Concentrated Solar Power? *Energies* 2020, 13, 4768. <https://www.mdpi.com/1996-1073/13/18/4768>
- ◇ Thonig R., Del Río P., Kiefer C., Lázaro Touza L., Escibano G., Lechón Y., Späth L., Wolf I., Lilliestam J. (2020). Does ideology influence the ambition level of climate and renewable energy policy? Insights from four European countries, *Energy Sources, Part B: Economics, Planning, and Policy*, DOI: [10.1080/15567249.2020.1811806](https://doi.org/10.1080/15567249.2020.1811806)
- ◇ Schöniger F., Thonig R., Resch G., Lilliestam J. (2021). Making the sun shine at night: comparing the cost of dispatchable concentrating solar power and photovoltaics with storage, *Energy Sources, Part B: Economics, Planning, and Policy*. <https://doi.org/10.1080/15567249.2020.1843565>
- ◇ Kiefer C.P., Caldés N., Del Río P. (2021). Will dispatchability be a main driver to the European Union cooperation mechanisms for concentrated solar power?, *Energy Sources, Part B: Economics, Planning, and Policy*. <https://www.tandfonline.com/doi/full/10.1080/15567249.2021.1885526>

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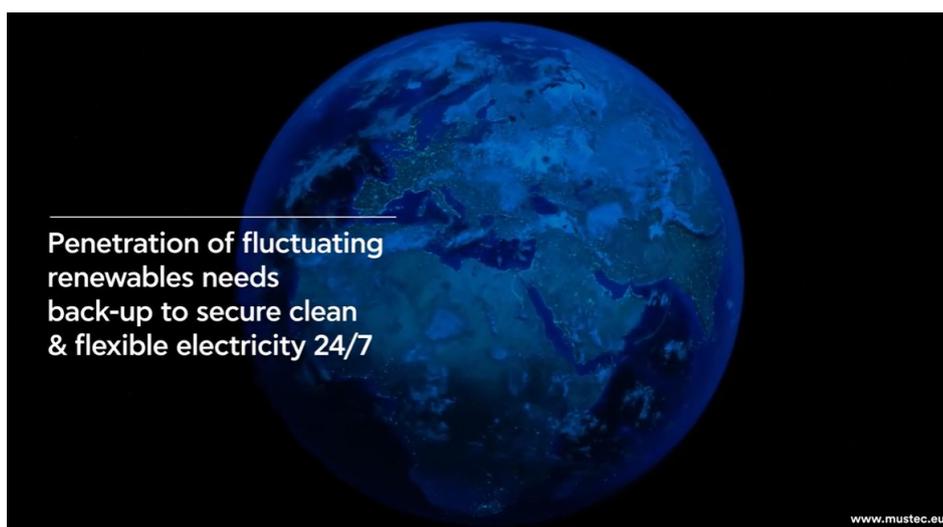
In the light of the EU 2030 Climate and Energy framework, MUSTEC aims to explore and propose concrete solutions to overcome the various factors that hinder the deployment of STE / CSP projects in Southern Europe capable of supplying renewable electricity on demand to Central and Northern European countries.

MUSTEC Latest Outputs

- ◇ A summary of the major lessons learnt on CSP development and RES cooperation in Europe are presented on [“Synthesis of key issues affecting CSP development in Europe”](#) report.
- ◇ Key factors and pivotal decisions for successful CSP deployment in Europe are presented on [“Pivotal decisions and key factors for robust CSP strategies”](#) report.
- ◇ The MUSTEC model-based analysis which evaluates the role of CSP in the EU electricity system up to 2050 is presented on [“Market uptake of concentrating solar power in Europe: model-based analysis of drivers and policy trade-offs”](#) report.
- ◇ A series of potential impacts associated to the future deployment of CSP cooperation projects, such as socioeconomic, social and environmental impacts are presented on [“Sustainability assessment of future CSP cooperation projects in Europe”](#) report.
- ◇ The important role of CSP, both for domestic use and for trade under the cooperation mechanisms is presented on [“Geopolitics and energy security of CSP deployment for domestic use and intra-European trade in the time of COVID-19”](#) report.

MUSTEC News

Did you check the new MUSTEC Video? Available on [YouTube](#)



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