

European PV manufacturing – loosing opportunities in every hour or closing missing gaps for the investments?



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## European PV manufacturing – to be or not to be? Does the EU response to PV manufacturing challenges is adequate?

#### **Challenges**

#### Import scale vs. European PV production

- 95-97% import dependency € 12 billion annual trade deficit
- 41 GW of PV deployment vs. 0.5 9 GW domestic production
- PV manufacturing target for 2025 **30 GW** along entire value chain investment decisions should be taken this year (2023)

#### **Global dynamics:**

- Booming of PV deployment
- Extensive support of US IRA

#### **Domestic passiveness:**

- EU financial support measures already established, but not yet empowered by the Member States
- EU Member States policy actions lagging from China, India, US extensive support and dedicated programs

#### Limited scaling possibilities:

- Innovations vs. scaling of PV manufacturing
- PV manufacturing roadmaps not yet delivered
- Magic trio: CAPEX support OPEX support sustainability policies/criteria
- Non-synchronized permitting procedures for the sites

#### **European response**

#### Potential for single voice:

 European Solar PV Industry Alliance (ESIA) established – 9th December 2022

#### Financing support – theoretical, not yet practical:

- Temporary Crisis and Transition Framework (TCTF) adopted
   9<sup>th</sup> March 2023
- REPowerEU Regulation for financing adopted (€ 20 billion potential) – 27<sup>th</sup> February 2023
- European Commissions recommendation to include PV manufacturing in RRPs through REPowerEU chapters – 1st February 2023
- Net-Zero Industry Act proposed recommendation to include PV manufacturing in revised RRPs – 16<sup>th</sup> March 2023
- Several EU Member States already considering REPowerEU support: <a href="Italy.Romania">Italy.Romania</a>, <a href="Netherlands">Netherlands</a>, <a href="Spain">Spain</a>, <a href="Portugal">Portugal</a>
- ESIA proposals and deliverables Q2 Q3 2023

#### Towards manufacturers friendly ecosystem:

- Net-Zero Industry Act
- ESIA proposals and deliverables



### Unlocked financial support possibilities — but not financing itself

**2023** – TCTF, REPowerEU

legislative and financial support – CAPEX should be secured

**2025** – TCTF, REPowerEU

legislative and financial support – OPEX should be secured and sustainability policies applied

2030 – TCTF, Member
States and EU legislative
and financial support –
OPEX support and
sustainability policies
maintained



30 GW target

30 GW capacities

secured

40% PV manufacturing of total deployed capacities



## Support possibilities under section 2.8 of the Temporary Crisis and Transition Framework (TCTF)

- 15% 55% CAPEX support depending on the size of the company and region development;
- 20% 60% tax advantages, loans and guarantees support depending on the size of the company and region development;
- Match checking procedure level-playing field with other global entities.

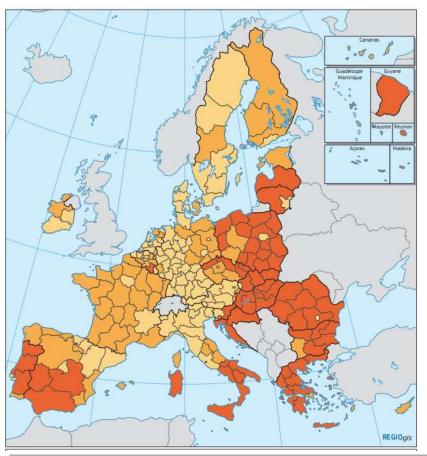
#### Maximum aid limits:

			Location of the investment <sup>1</sup>		
	Max. aid amount per undertaking per MS		Non-assisted areas	c-Regions	a-Regions
			EUR 150 Million	EUR 200 Million	EUR 350 Million
	For direct grants	Large enterprises	15%	20%	35%
		Medium sized enterprises <sup>3</sup>	25%	30%	45%
		Small enterprises <sup>2</sup>	35%	40%	55%
	For tax advantages, loans or guarantees	Large enterprises	20%	25%	40%
		Medium sized enterprises <sup>2</sup>	30%	35%	50%
		Small enterprises <sup>2</sup>	40%	45%	60%

Source: European Commission.



# Spain maintains competitive advantage – will it be utilized by 10-15 GW PV manufacturing capacities?



- Regional aid maps defines eligible financing depending on the development of the particular EU region.
- Spain encompasses 12.93% REPowerEU grants funding & biggest support eligibility

"A" areas in Spain:	"C" areas in Spain:
<ul> <li>Castilla-La Mancha</li> <li>Cuenca</li> <li>Extremadura</li> <li>Andalucía</li> <li>Ciudad de Ceuta</li> <li>Ciudad de Melilla</li> <li>Canarias</li> </ul>	<ul><li>Región de Murcia</li><li>Teruel</li><li>Soria</li></ul>

#### Conceptual example:

- € 2.59 billion equals € 350 million each for 7 large companies
- Support eligible without time limits!
- 35% grant means € 1 billion total CAPEX potential per company
- Theoretical: 1 GW CAPEX € 30 million: **33 GW actual capacities**
- Realistically Spain could deliver 10-15 GW PV manufacturing capacities (1/3 1/2 of the EU target)



# THANK YOU FOR YOUR ATTENTION!

