



Bruxelles – March 15<sup>th</sup> 2018 - 'Solar Power Summit'

# Sustainable Product Policy Instruments for the Product Group "Solar Panels and Inverters"

*D. Polverini*

*European Commission*

# Environmental impact of products



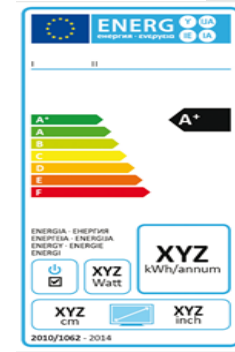
## Main instruments



**Ecodesign Directive 2009/125/EC**: "Framework" defining the "rules" for setting product-specific requirements/legislation on energy efficiency and further parameters. Compliant products receive "CE Mark"

**Compulsory**

**Energy Labelling Directive 2010/30/EU**: "Framework" defining the "rules" for setting product-specific requirements/legislation on standard information of the consumption of energy and other resources



## Other related instruments

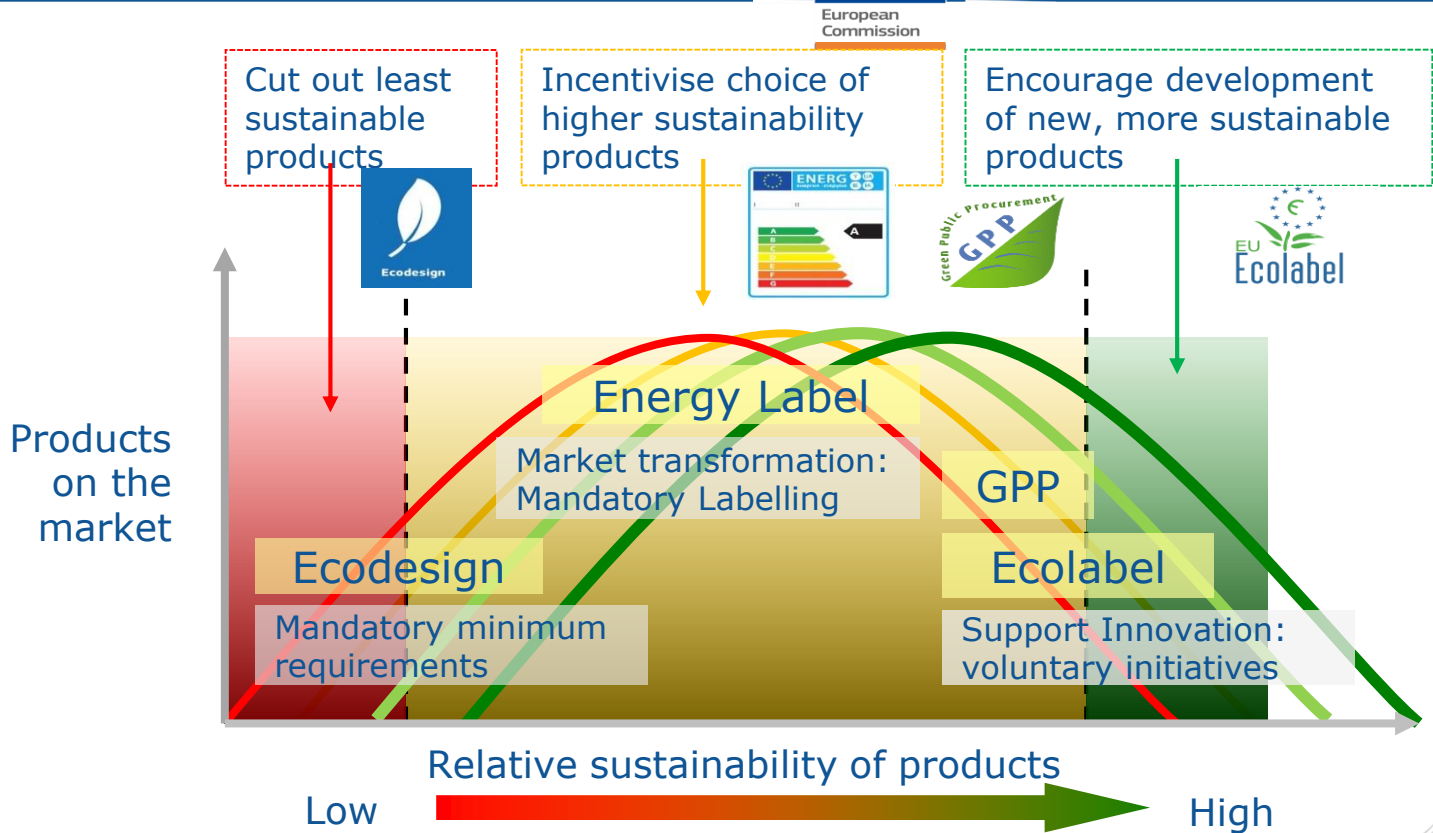
**Ecolabel:** The EU Ecolabel helps identify products and services that have a reduced impact on the environment throughout their life cycle, from the extraction of raw material to production, use and disposal.

**Voluntary**

**Green Public Procurement:** A voluntary instrument. GPP can help stimulate a critical mass of demand for more sustainable goods and services which otherwise would be difficult to get onto the market.



# Overlay of EU product policy instruments



Energy

# Eco-design WP 2016-2019 – New products

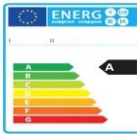
- *Building Automation and Control Systems*
  - *Electric kettles*
  - *Hand dryers*
  - *Lifts*
  - *Solar panels and inverters*
  - *Refrigerated containers*
  - *High-pressure cleaners (only energy label)*
- + *study on ICT products*

**Concept: ONE  
research  
process for  
different  
policies**

- *Ecodesign minimum Requirements?*



- *Energy Label classes?*



- *Ecolabel criteria?*



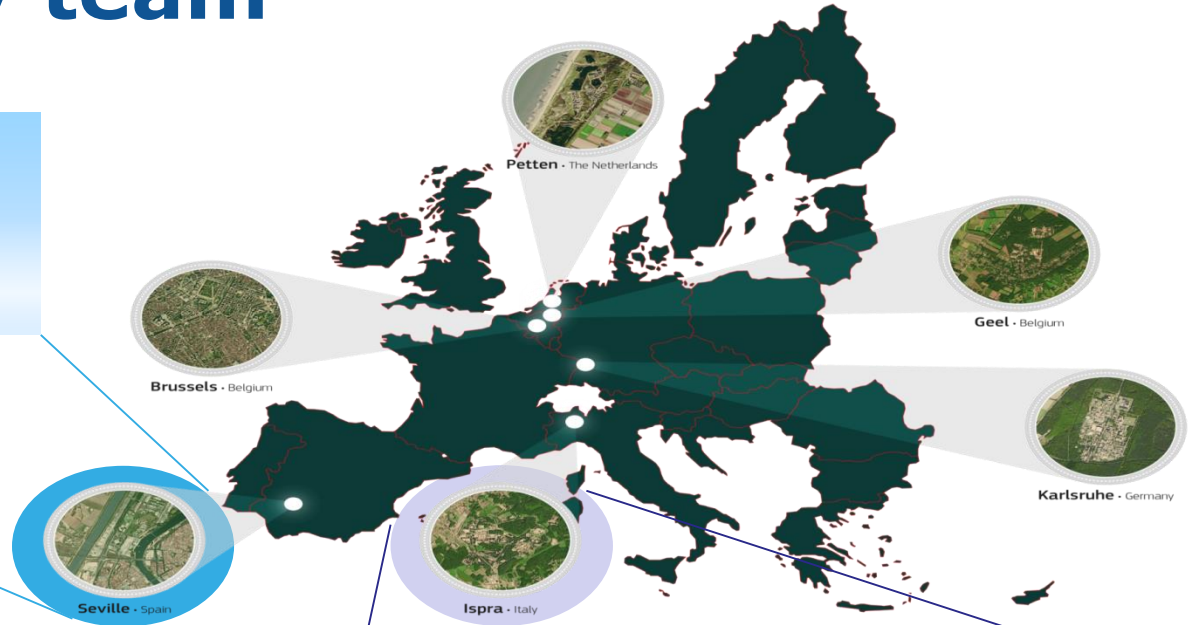
- *GPP criteria?*



## The JRC study team

### **JRC Sevilla – B5 Unit**

- Leading the technical research and analysis
- Co-ordinating stakeholder dialogue

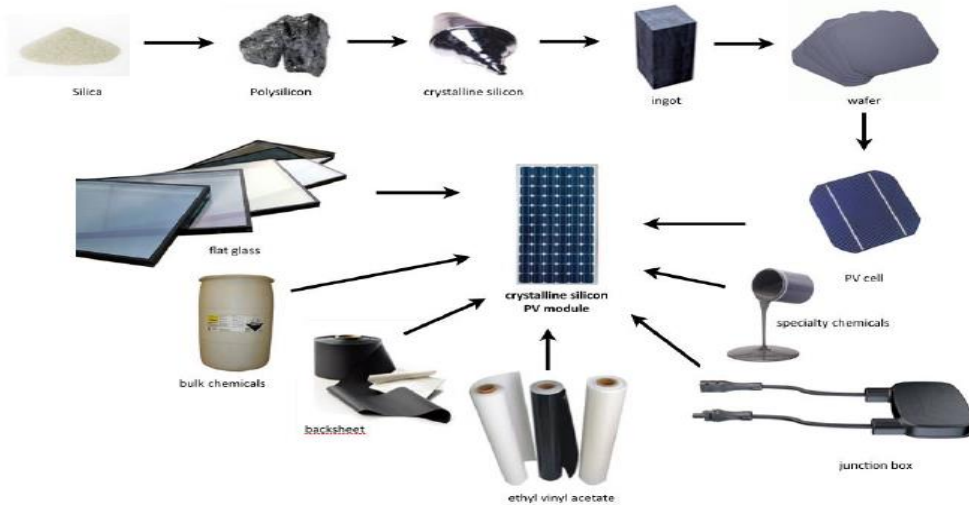


### **JRC Ispra – C2 Unit (ESTI)**

- Technical support on standards/testing (parallel project)

## Modules, inverters and systems

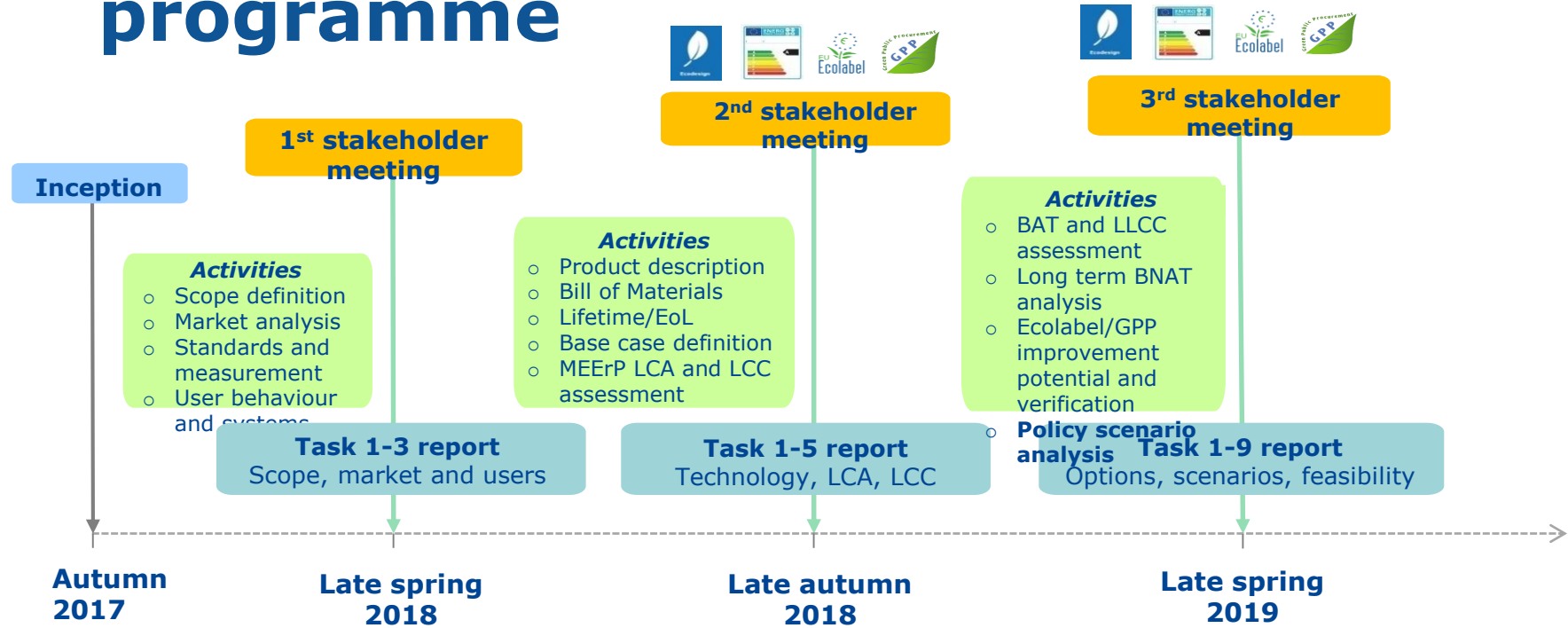
**In-depth analysis:** market, technologies, performance measurement, life cycle cost and environmental impacts.





European Commission

# Preparatory study draft work programme





# Potential Performance parameters

## *PV component level*

- Module and inverter **efficiency, reliability and durability**

## *PV system level*

- '**Performance ratio**': irradiation, temperature, reflection, component efficiencies, electrical configuration, shading..
- **Self-consumption** components: battery/thermal storage

## *Electricity network*

- **Substitution** of existing generating capacity

# How stakeholders can take part

## ***Register*** as a stakeholder

- ✓ From October via the study website

## ***Respond*** to questionnaires

- ✓ One was sent out during the past weeks

## ***Comment*** on draft working documents

- ✓ Registered stakeholders will be able to comment within defined time frames

## ***Participate*** in stakeholder meetings

- ✓ Three meetings will take place

## ***Share*** information and data

- ✓ Bi-lateral basis or as part of technical sub-groups

# Thank you for your attention!

## Contact points

Policy officer in charge  
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Stakeholder enquiries  
email: [jrc-b5-photovoltaics@ec.europa.eu](mailto:jrc-b5-photovoltaics@ec.europa.eu)

Study home page (for stakeholder registration)  
[http://susproc.jrc.ec.europa.eu/solar\\_photovoltaics](http://susproc.jrc.ec.europa.eu/solar_photovoltaics)