

Environmental Goods Summary – Non-Paper for TESSD

United Kingdom
Department for Business and Trade
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Key messages

- 1. EGS deep dive discussions in 2023 provide an important opportunity to **build a shared understanding** of:
 - a) Which goods will be most important to help us achieve environmental objectives and what services enable them
 - b) What barriers are limiting trade in these goods, and
 - c) What steps can be taken to increase trade in these goods
- **2. Value chain analysis** can provide a powerful way to explore these questions because it provides a **unifying conceptual framework** for understanding a wide array of policy issues relating to EGS.
- 3. We should **build and maintain a living summary document**, organised clearly against the three questions proposed above and serving as a reference of discussions for all members.



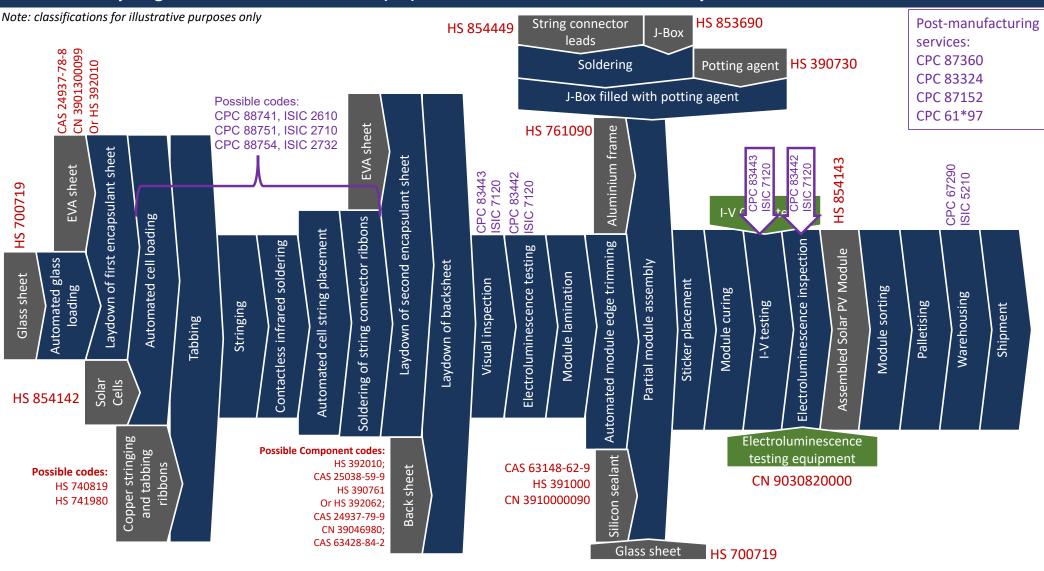
Building evidence using value chain analysis

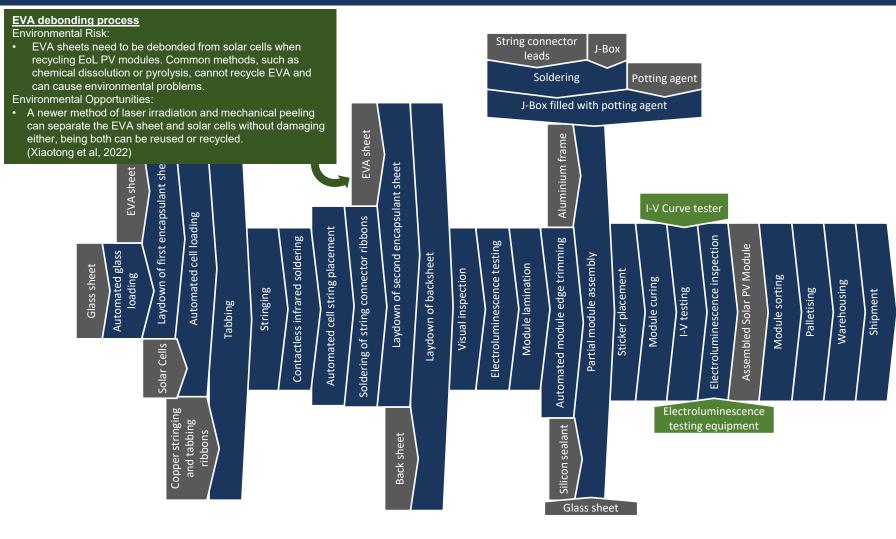
- Value chain analysis is useful for assessing the relationships between trade, production, and the environment for key environmental technologies.
- Value chain diagrams visualise both goods and services, production of and trade in technologies. They describe what is involved in the creation of final products, and how this happens.
- Producing value chain diagrams helps to drive research into connected problems associated with these technologies, which can be annotated onto the diagrams. Our research has explored issues such as:
 - classification challenges
 - lifecycle issues
 - environmental and economic interests of countries on different development pathways
 - links between goods and services
 - where and how non-tariff measures apply
 - opportunities for voluntary technology transfer on mutually agreed terms.

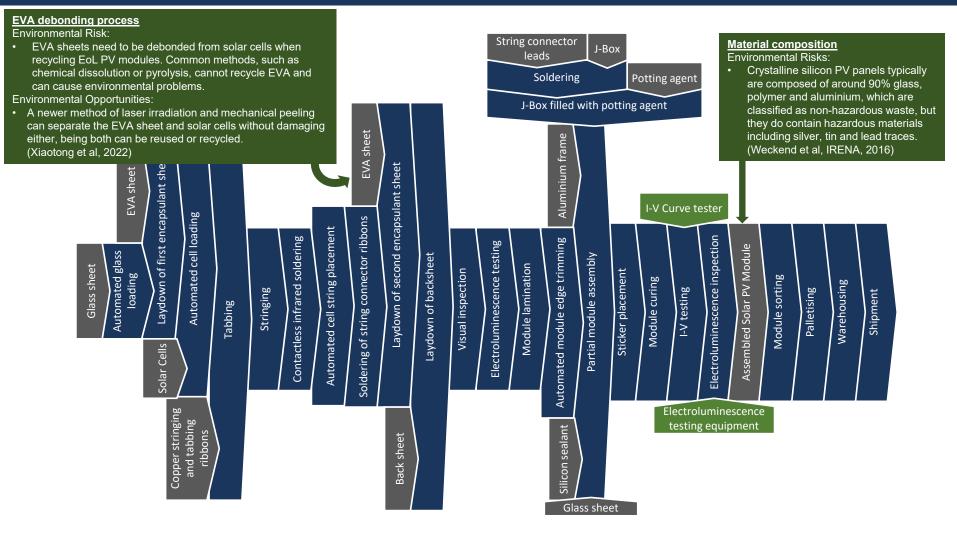
Note: the full set of value chain diagrams for Solar PV will be circulated in the non-paper

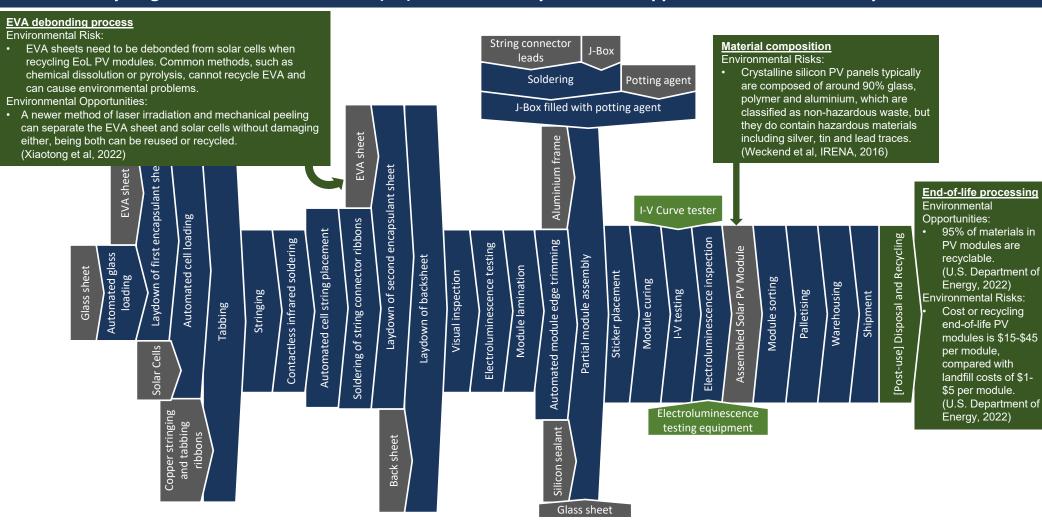
Final assembly stages for a Solar Photovoltaic (PV) Module String connector Key: J-Box Manufacturing Activity or leads **Product** Extra Equipment Module Frame **Production Process** Soldering Potting agent Glass Encapsulant (EVA) J-Box filled with potting agent Solar Cells Encapsulant (EVA) **EVA sheet** Aluminium frame **Back Sheet** Laydown of first encapsulant sheet Junction Box Laydown of second encapsulant sheet **EVA sheet** © EU-India TCP, 2020 I-V Curve tester Automated cell loading Soldering of string connector ribbons Automated cell string placement Electroluminescence inspection Contactless infrared soldering Automated module edge trimming Electroluminescence testing Assembled Solar PV Module **Automated glass** Laydown of backsheet Partial module assembly Module lamination Glass sheet Visual inspection Sticker placement loading Module sorting Module curing Warehousing I-V testing Palletising Stringing Shipment Tabbing Solar Cells Copper stringing Electroluminescence and tabbing Silicon sealant testing equipment ribbons **Back sheet** Glass sheet

Final assembly stages for a Solar Photovoltaic (PV) Module – HS & CPC Annotative Layer

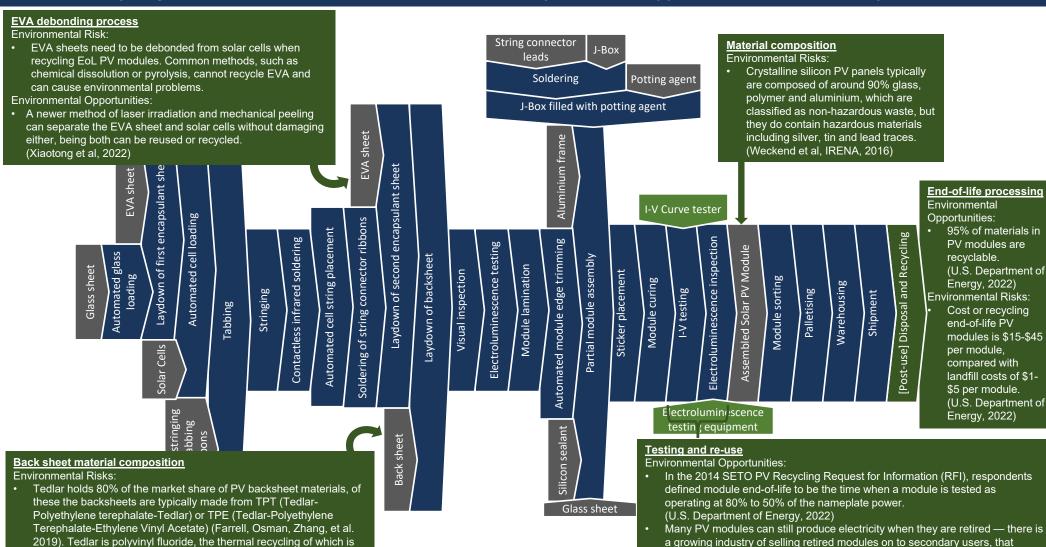






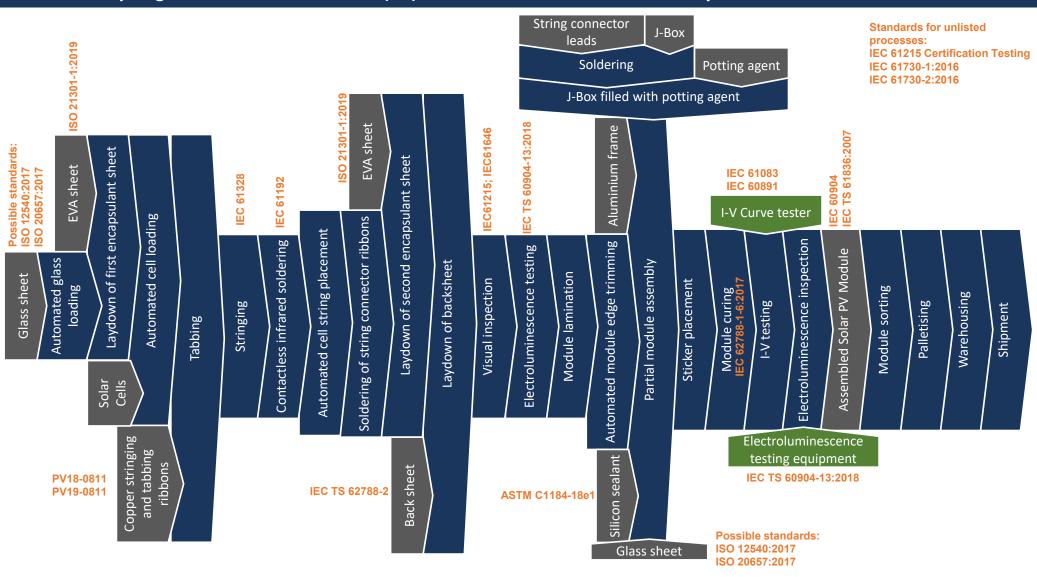


incredibly toxic (Gifford, 2015)



would in many cases go to landfill.

Final assembly stages for a Solar Photovoltaic (PV) Module – Standards Annotative Layer





Final Conclusion

- 1. Conducting value chain analysis for environmental goods in this style is useful for supporting better coordination of trade, industrial, and environmental policies.
- 2. The relationship between these areas is complex, but **policies in this space must be evidence-led**. This approach is a relatively **neat way of organising complex information** in a **digestible and accessible format** that **everyone** can contribute to.
- 3. All levels of contribution can be incorporated into this framework. We encourage everyone to work collaboratively to bring this evidence base together and to draw from this to develop a living summary document.

Please consider our guiding questions in the summary paper for future sessions this year.