



Making the Photovoltaic Industry

‘Double Green’



EUROPEAN ASSOCIATION FOR VOLUNTARY TAKE BACK AND RECYCLING OF PHOTOVOLTAIC MODULES



Introducing PV Cycle

Who We Are:

- **Founded in July 2007**
- **Established and staffed office in Brussels in April 2008**
- **Today representing around 70% of European PV market**

Objective:

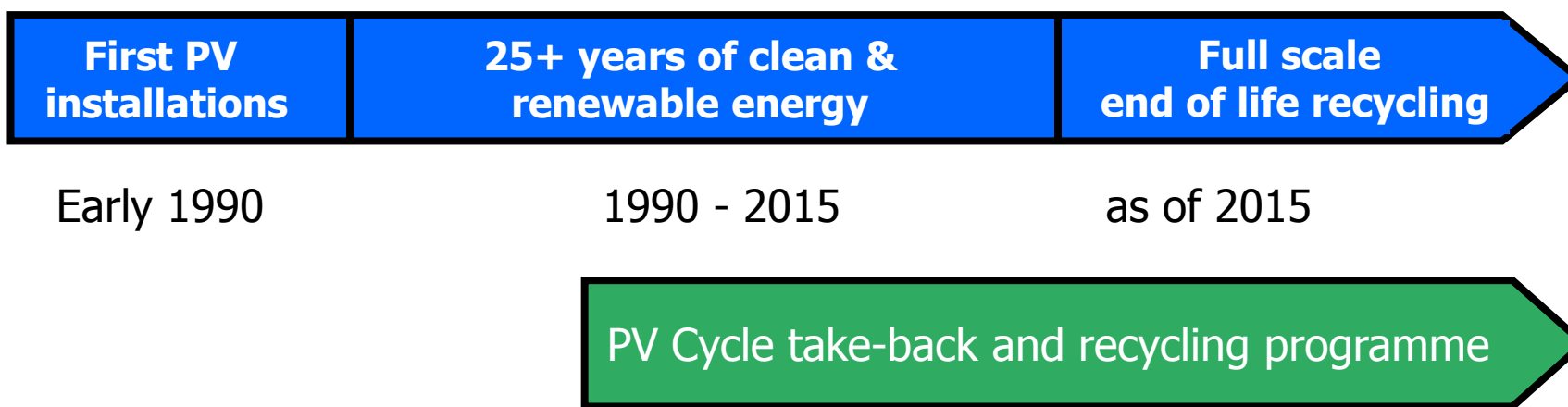
- **To create and implement a voluntary industry-wide take back and recycling programme for PV modules**



Ahead of time

"The industry is strongly committed to act today ahead of the first large scale series of end-of-life modules"

Karsten Wambach, PV CYCLE President



Offering a truly sustainable energy solution today to help prevent climate change tomorrow



PV Cycle Circle

Generating energy



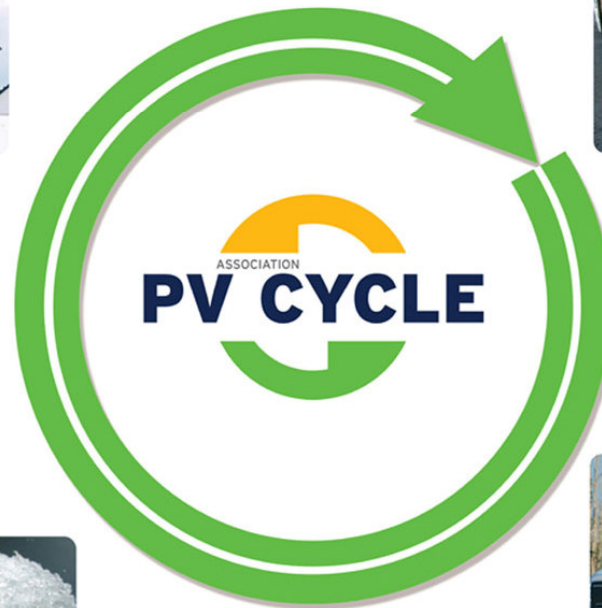
End-of-Life



Recycling



Collection





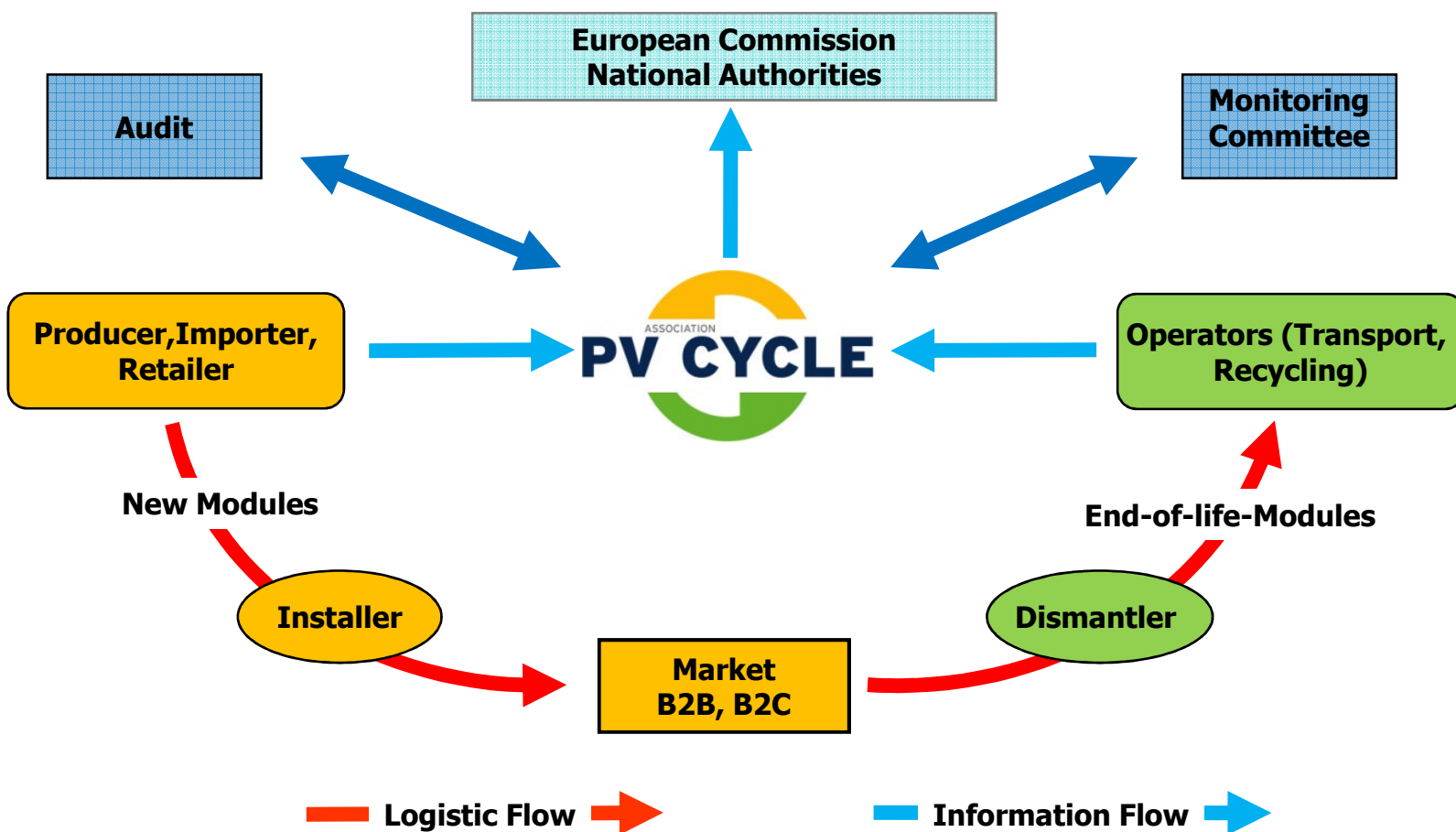
Advantages of the PV Cycle Circle

- Reduces the volume of PV waste
- Increases the re-use of valuable resources such as glass, silicon, and other semiconductor materials
- Reduces the life-cycle energy consumption and the environmental impacts associated with PV production

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PV Cycle Network



Today's PV Recycling Processes

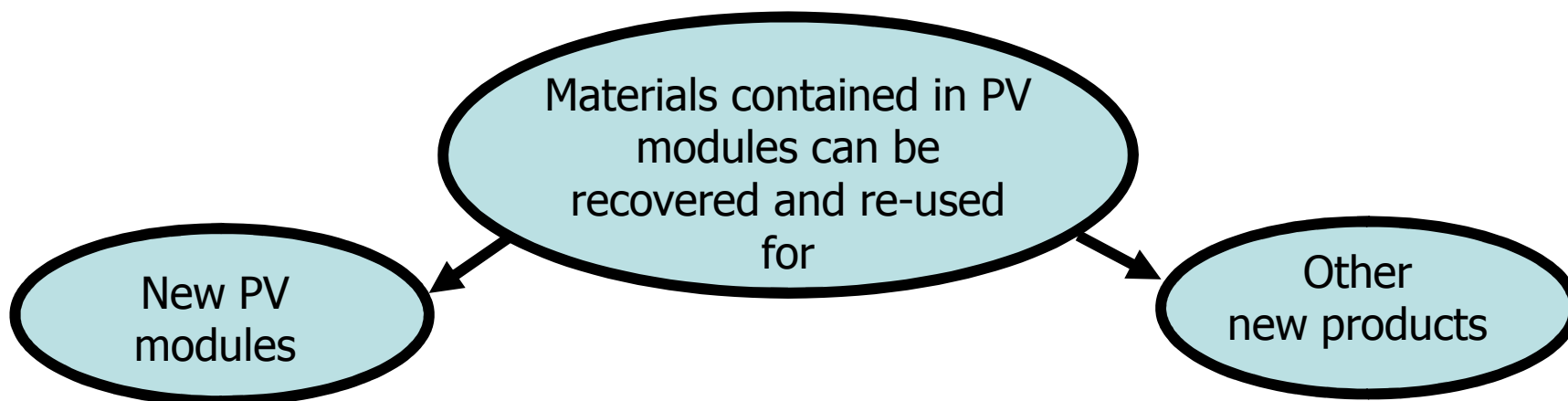


Thin-Film Recycling Process



Silicon Recycling Process

“Double use” of PV modules



End-of-Life- PV-Module



Recycling Process



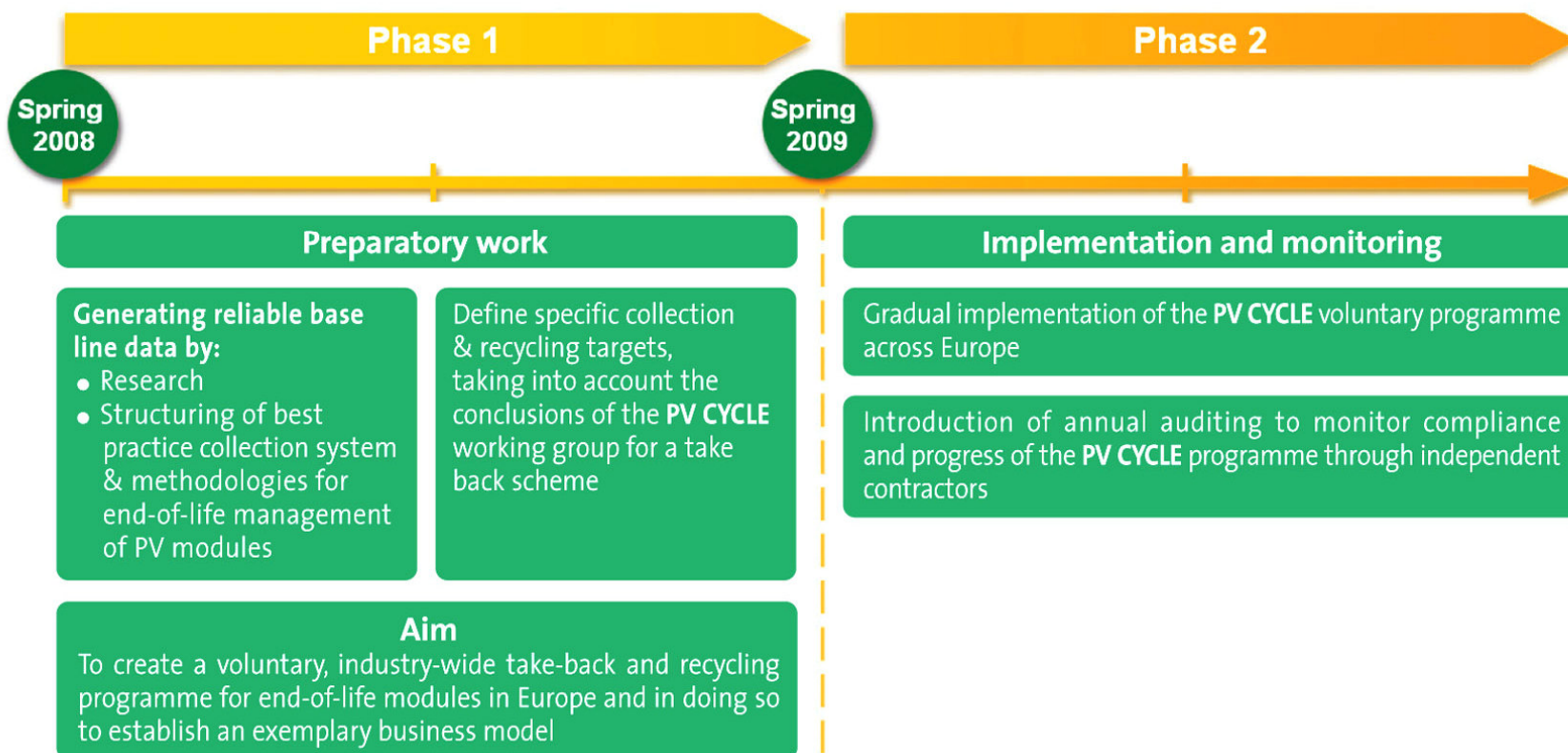
Silicon



Glass

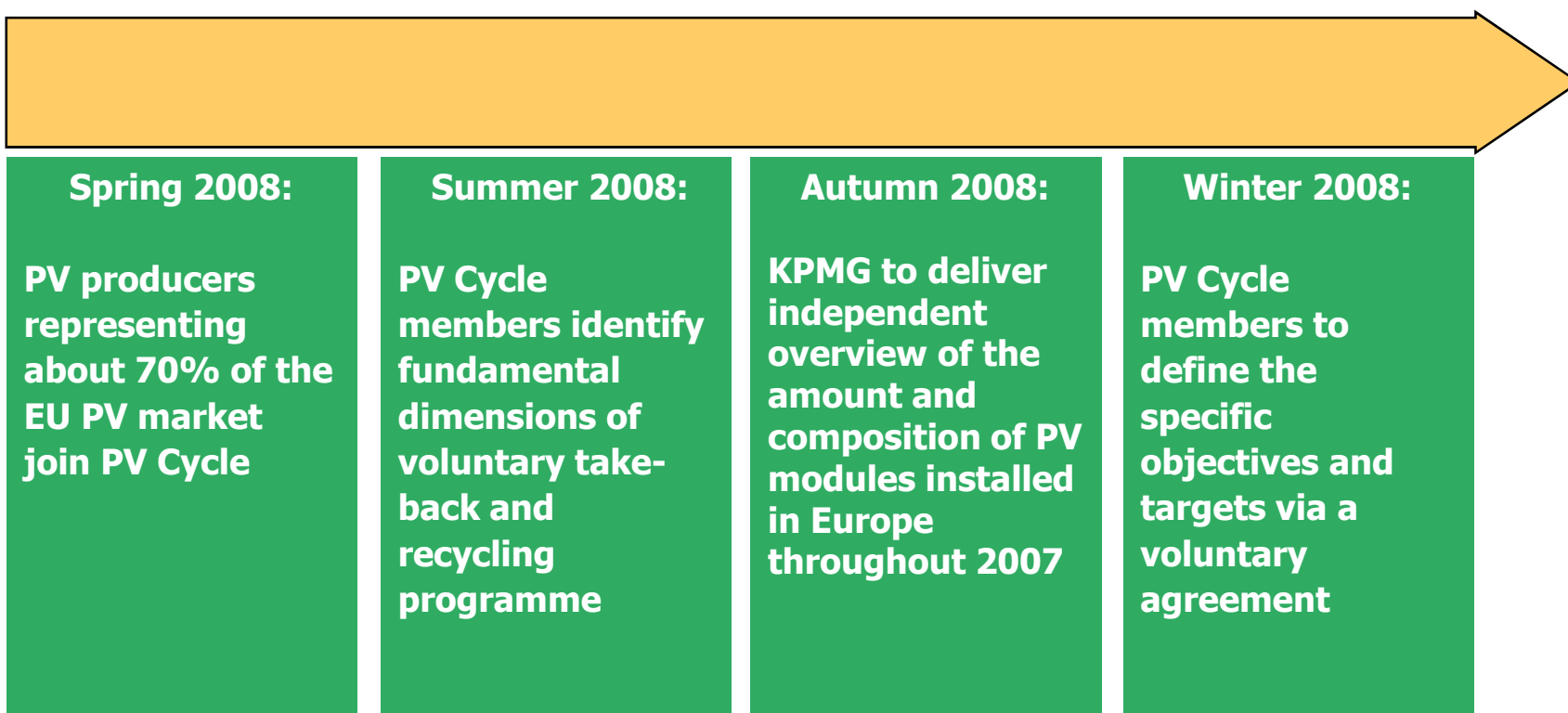


PV Cycle two-phase programme





Phase 1





Why join us?

Becoming a member will allow you to:

- **Be part of the PV industry's sustainable energy solution**
- **Participate in PV Cycle's Working Group**
- **Help define the industry's collection and recycling targets**
- **Contribute to the development of the Voluntary Agreement**
- **Help shape the final PV Cycle business model**
- **Use the PV Cycle logo in marketing activities**
- **Confirm your producer responsibility to customers, authorities and stakeholders**



Founding members





Members 2008



EUROPEAN ASSOCIATION FOR VOLUNTARY TAKE BACK AND RECYCLING OF PHOTOVOLTAIC MODULES



PV CYCLE Members 2009



New Associate Member 2009



EUROPEAN ASSOCIATION FOR VOLUNTARY TAKE BACK AND RECYCLING OF PHOTOVOLTAIC MODULES



Membership

We welcome as members:

- **all manufacturers**
- **all importers**
- **every company with a responsibility in manufacturing and/or importing PV modules**

join@pvcycle.org



Membership fees

Membership Category	Turnover in PV Business in Europe in the previous calendar year	Annual fee (2009)
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Full Member

I	>100 Mio €/a	25.000 €
II	10-100 Mio €/a	12.500 €
III	< 10 Mio €	5.000 €

Associate Member

		Minimum 1.000€
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Thank you for your attention!



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Virginia Gomez
Scientific & Operations Engineer