

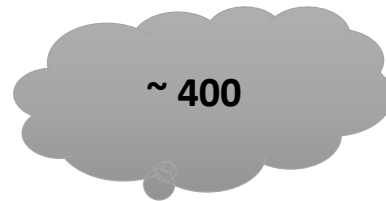
# Climate impact: *Mainstream* vs Low-Carbon Solar panels

concept

**Emissions during production**  
kg CO<sub>2</sub>-eq per 380 W<sub>p</sub> PV-module

**CO<sub>2</sub> pay-back time in the Netherlands\***  
by preventing emissions in fossil power plants

**Mainstream PV module**  
crystalline Silicon from China  
>90% market share in NL



**Low carbon PV module**  
Avg of top 5 low carbon PV  
Commercial scale production

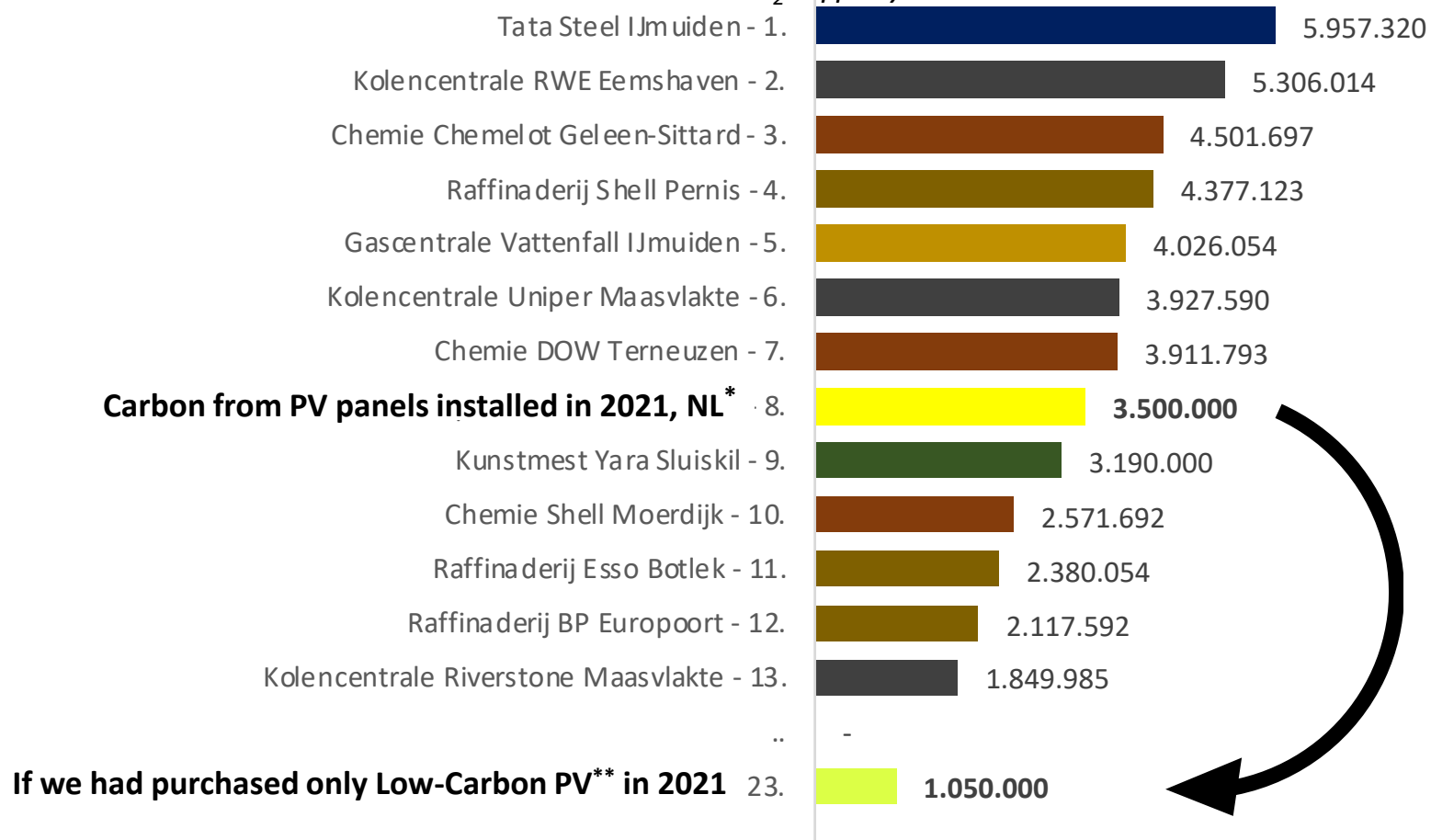


\*) **Assumptions:** Installation in 2024, East-West on flat roof, in middle of Netherlands, degradation 0,5%/jr; electricity mix and carbon emissions develop along government ambitions

# Durable PV potential impact in NL: 2,5 megaton CO<sub>2</sub> /yr

## Largest Carbon emitters in Netherlands, 2021

ton CO<sub>2</sub>-eq per year



Purchasing  
Low-Carbon PV modules  
has a major impact;  
we can save a  
refinery-equivalent  
in global CO<sub>2</sub> emissions

### Notes

The majority of carbon emissions from PV module production takes place in China; these 'scope 3' emissions are normally not considered

\*) in 2021 (and 2019, 2020 also) ~ 3,5 GW<sub>p</sub> of new PV modules were installed in the Netherlands; assumption 1 ton CO<sub>2</sub>-eq /kWp for mainstream PV

\*\*) Assumption: 0,3 ton CO<sub>2</sub>-eq /kWp for Low Carbon PV

<b>WORK PACKAGE</b>	<b>TASK</b>	<b>TARGET DUE DATE</b>
<b>WP 1. MANAGEMENT OF COMMUNITY AND DIGITAL PORTAL</b>		
	1.1 Identify and contact additional CPOs/public PV buyers in additional countries	Jun'23
	1.2 Align agenda (actions, meetings)	Jun'23
	1.3 'About Us' document for general audience & publish on bigbuyers website	Jun'23
	1.4 Portal management	
	1.5 Webinars, workshops	
	1.6 Organize meetings and events	
	1.7 Project management	
<b>WP 2. KNOWLEDGE AND INSIGHTS</b>		
	2.1 Introductory documents and impact sheet (presentation/whitepaper)	Apr'23
	2.2 Sustainability issues	Q3'23
	2.3 Market & Product insights	Nov'23
<b>WP 3. TOOLS, TEMPLATES, EXAMPLES AND GUIDES</b>		
	3.1 Tools	Q1'24
	3.2 Sustainable PV modules - templates and example clauses of selection criteria in tenders	Q4'23
	3.3 Guides for public buyers	Q2'24
	3.4 PPA contracts	Q2'24
<b>WP 4. BEST PRACTICES AND GUIDELINES</b>		
	4.1 Financials and Risks	Q1'24
	4.2 Eco-friendly PV installations	Q1'24
<b>WP 5. LOBBYING FOR INCENTIVES FOR SUSTAINABLE PV</b>		
	5.1 Financial incentives	Q3'24
	5.2 Regulatory requirements	Q3'24
<b>WP 6. DISSEMINATION IN YOUR COUNTRY</b>		
	6.1 Translate documents (if needed)	Q3'24
	6.2 Organize webinars/meetings for other public organisations	Q3'24