

Polysilicon from WACKER – the strategic raw material for the solar and the semiconductor industry

Wacker POLYSILICON, November 2023

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Over 100 Years of Success

Wacker Chemie AG

- ▶ Founded in 1914 by Dr. Alexander Wacker
- ▶ Headquartered in Munich, Germany

WACKER Group (2022)

Sales: €8.21 billion

► EBITDA: €2,081 million

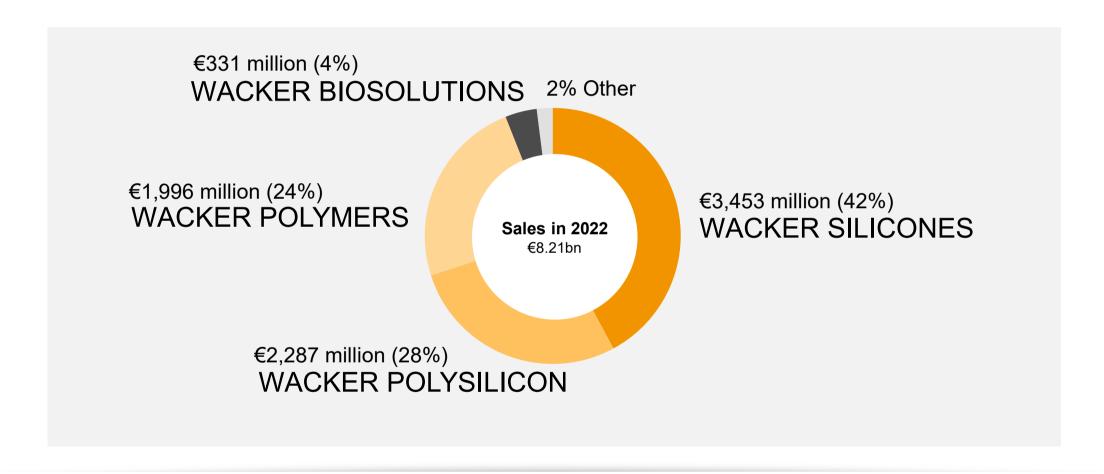
▶ R&D: €178 million

Investments: €547 million

▶ Employees: 15,725

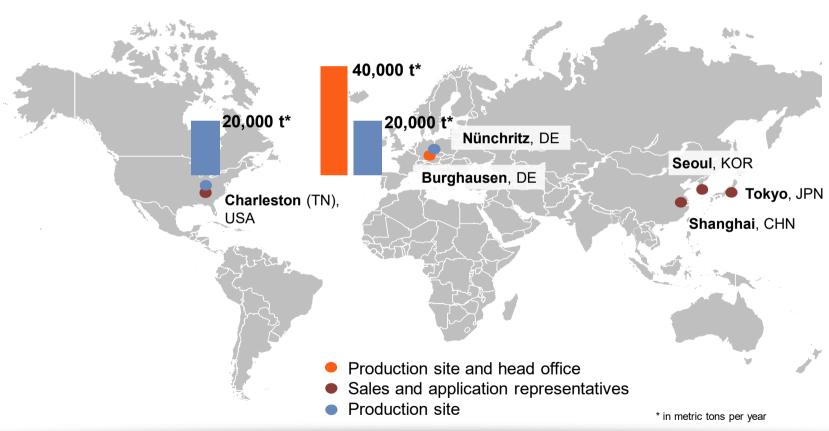


Attractive Business Portfolio with Many Growth Opportunities

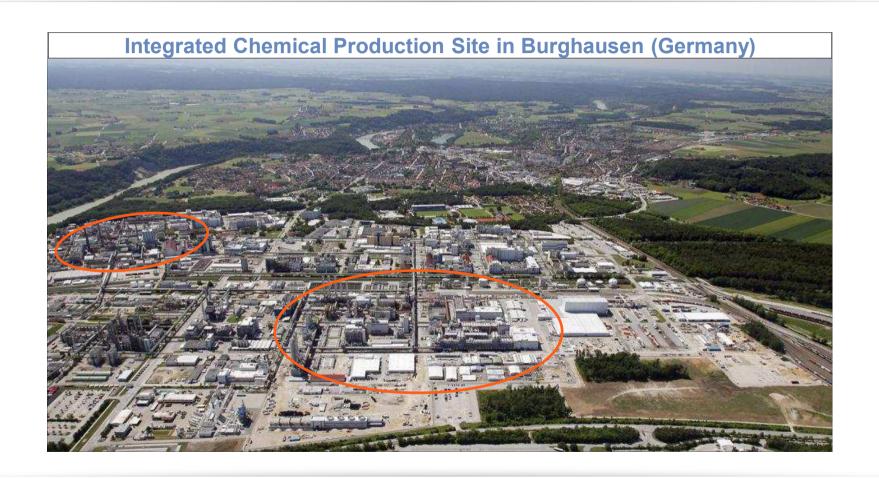


With 80.000 tons WACKER is a global leader for manufacturing hyperpure polysilicon

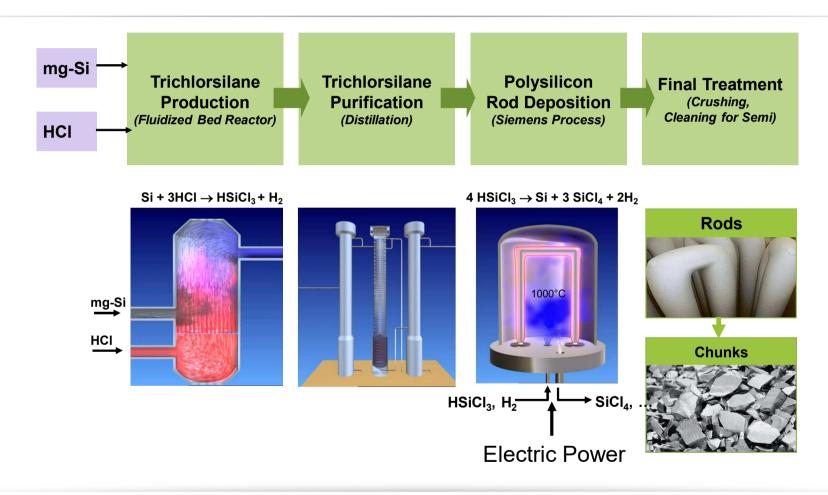
Three productions sites in Germany and USA



WACKER POLYSILICON Invested More than 2 Billion € in Germany (Since 2005)

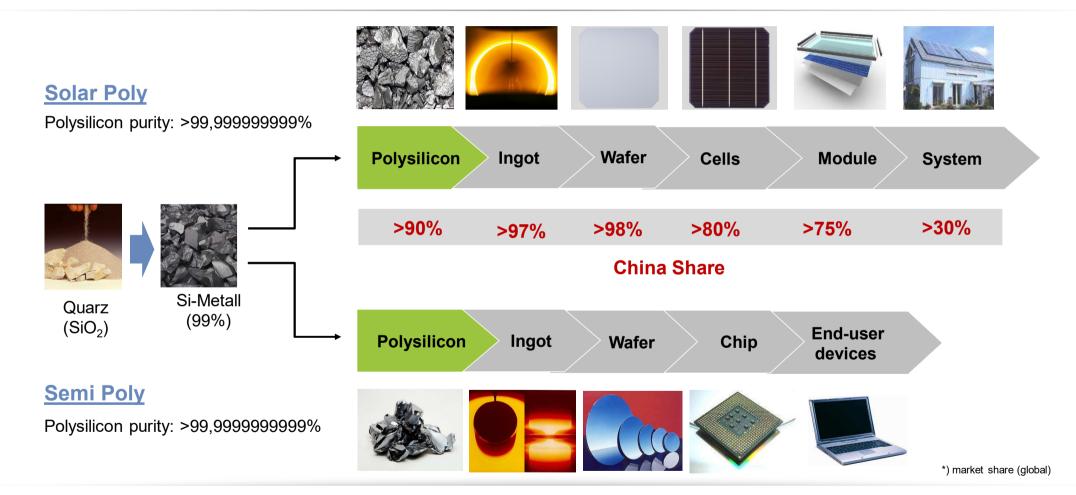


Polysilicon Production Is a Four Step Purification Process



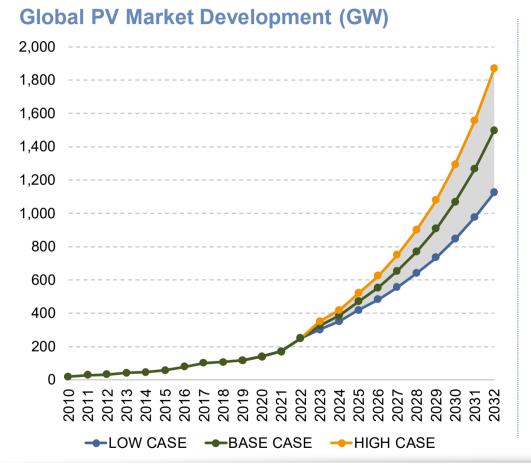
6

Polysilicon – The Essential Base Material for Semiconductors and Solar Panels

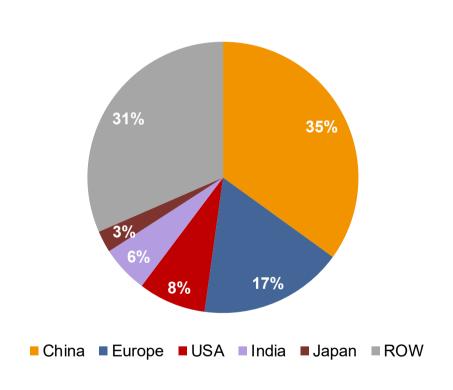


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Strong Growth of Photovoltaics – 2/3rd of PV Installations Outside of China



Regional Split of PV Installations in 2022 (%)



Sources: GB-P estimates, market studies

Massive Subsidies Triggering Regional Development of Integrated Value Chains

- Canada: Government plans to introduce IRA*-style investment budget
 - USA: IRA* could trigger 50 GW of fully integrated capacities until 2027 (from Poly to Module)
- EU: Target to rebuild solar manufacturing industry, Germany launched own supply chain initiative (10 GW from poly to module)
 - India: PLI** trigger ambitious expansion plans along the whole value chain (from Poly to Module)
- China: Massive subsidies to foster capacity expansions (terawatt scale), export restrictions for Chinese wafer technologies
 - Australia: Plans to become a global green energy hub (e.g. solar, hydrogen, ammonia)

*) Inflation Reduction Act; **) Production Linked Incentives



WACKER: Benchmark for Carbon-Footprint and Energy Consumption – Fully Complies with Environmental, Social and Governmental Requirements

WACKER Solar Polysilicon Has Significantly Lower Carbon Footprint than its Competitors



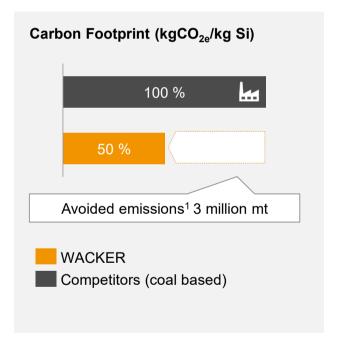
Best-in-Class Polysilicon CO₂ Footprint¹

Total energy consumption ~25% lower than competitors and access to cleaner energy mix



Circular Economy

- Integrated production and innovative closed recycling loops of by-products
- Fully electrified processes enables
 WACKER to use of renewable power



1) Based on total annual solar volumes sold

Polysilicon the Foundation of Semiconductor Industry

Electronics Value Chain 2022

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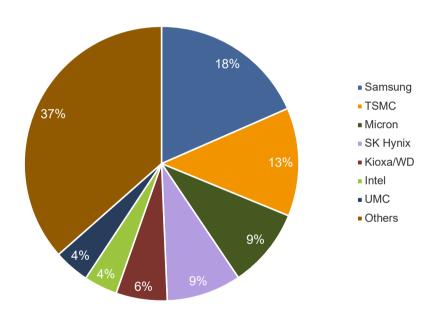


Source: Electronics (TechInsights), Semiconductors (WSTS, silicon-based only), Silicon wafers (SEMISMG), Silicon (WACKER estimate)

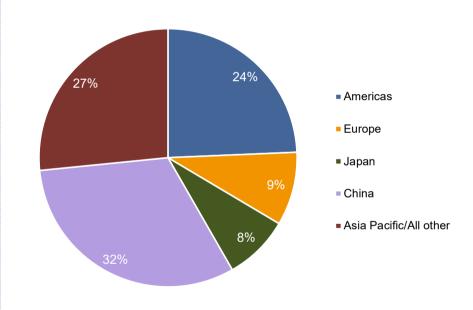
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All Steps of the Semiconductor Value Chain Globally Diversified

Semi Wafer Fab Capacity by Supplier 2022



Semiconductor Device Market 2022

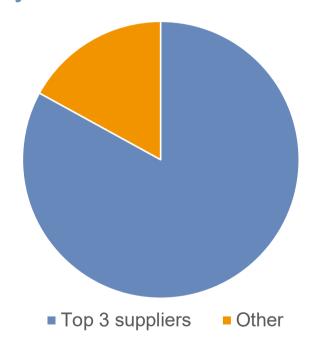


Sources: WACKER analyses, IC Insights, WSTS/SIA

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WACKER Market Leader in Semiconductor Grade Polysilicon

2022 Polysilicon for Semi Market



Competitive Situation

- Consolidation ongoing in semiconductor grade polysilicon market with three major suppliers left and smaller suppliers struggling
- Newcomers lagging behind in quality
- WACKER highly dedicated to semi customers
- ▶ WACKER leading in quality, quantity and cost

▶ WACKER is the most reliable and #1 semiconductor silicon supplier

source: WACKER estimate

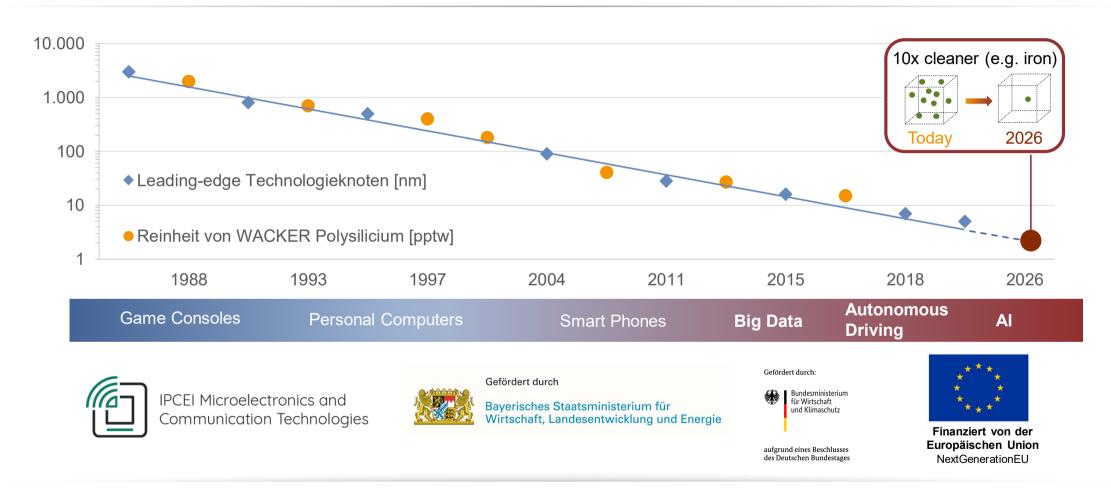
13

WACKER Is Investing Some 300 Mio. Euro in Semiconductor Polysilicon



- Investment of app. 300 Mio. € in leading edge etching technology. Add. Etching Capacity > 50 %
- ▶ EU IPCEI for microelectronics supports the project with funding of around 46 million euros.
- The Project aims at producing the highest quality with the lowest possible impact on climate and environment, thus contributing to the overall EU Green Deal objectives.
- ▶ Further improvement of Quality required for: CMOS image sensors, High resistivity applications for 5G/6G, Advanced design rules (<3nm).

Next Level of Purity for Future Chip Technologies



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Summary – How to keep competitiveness of polysilicon in Europe for solar and semiconductor

WACKER Needs Strong Support to Secure and Expand Polysilicon Capacities in Europe

OPEX Support

e.g. Industrial Electricity Price

CAPEX Support

Full Solar Supply Chain

Effective Net Zero Industry Act

Support to expand on existing sites

Effective ESG regulations



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