WACKER

CREATING TOMORROW`S SOLUTIONS

Innovation Fund Workshop – WACKER‘s Green Hydrogen

Carl Kahn – Strategic Marketing Polysilicon

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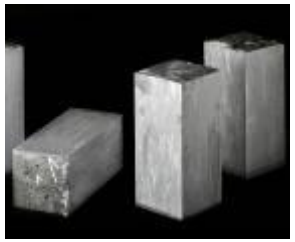
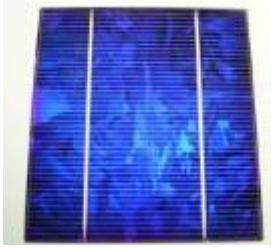
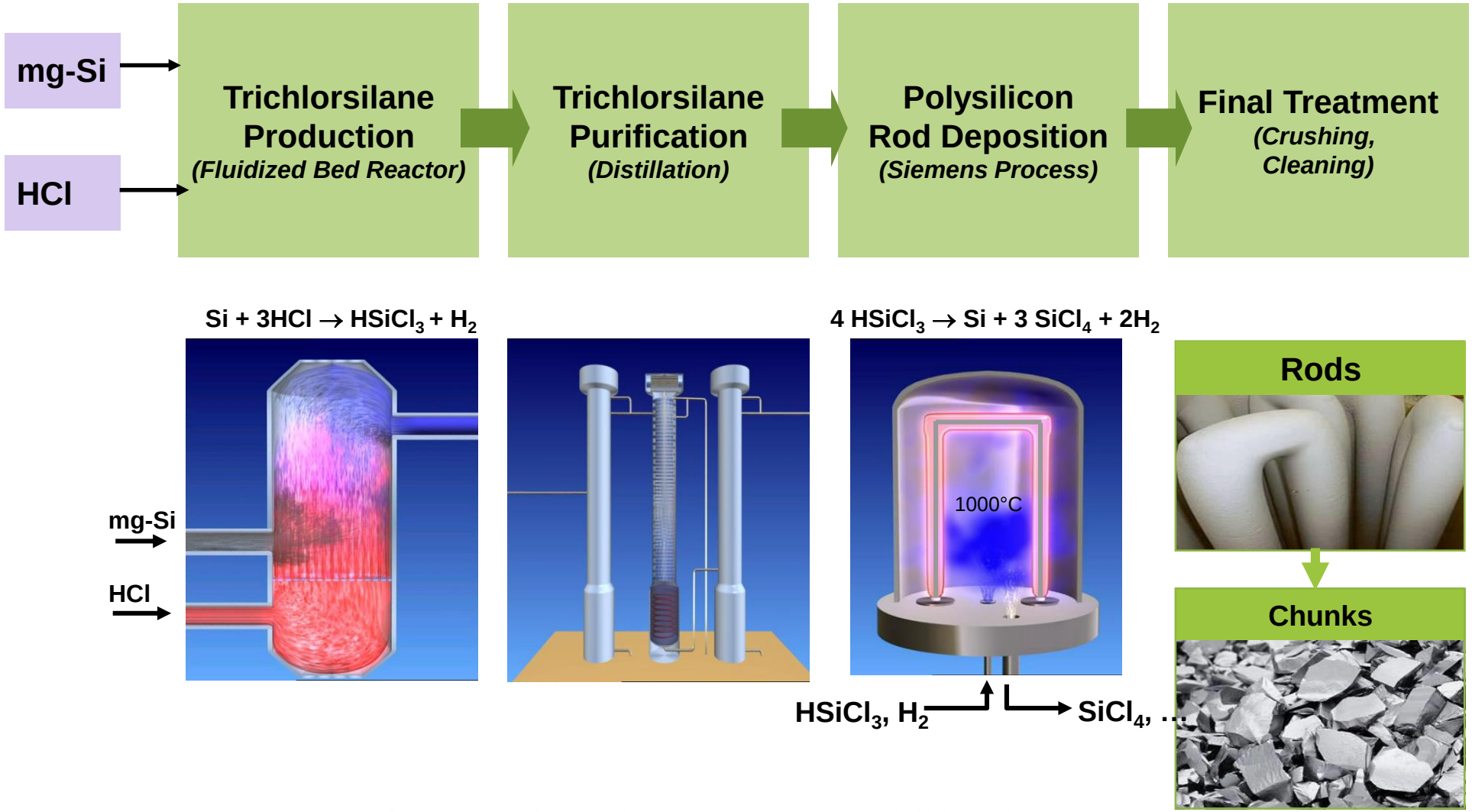
Polysilicon: The Key Raw Material for ~ 90% of all Solar Systems





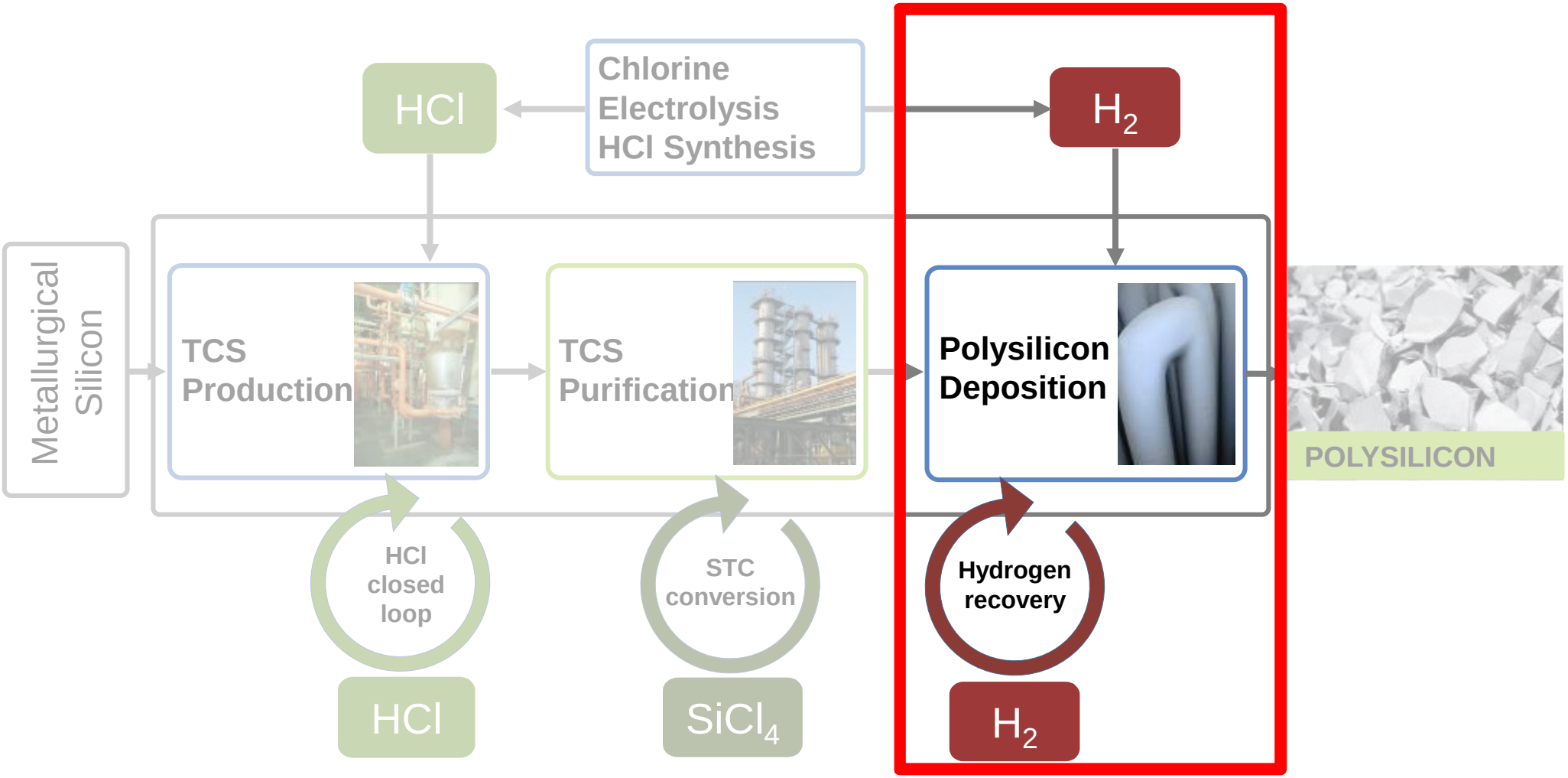
Polysilicon → **Ingot** → **Wafer** → **Cell** → **Module** → **System**

Polysilicon Production Is a Four Step Process



WACKER's Integrated Production Is One of our Greatest Strengths

Polysilicon Manufacturing: Closed Loop Operations with Highest Efficiency



Steam Methane Reforming Emits CO2 and Has Higher Full Costs H2 Electrolysis Can Be Operated More Flexibly

Downside of SMR

- Steam Methane Reformer (SMR) emits ~5.000 tons CO2 per 10.000 tons polysilicon produced
- SMR technology requires a base run rate that can lie above the demand-based production

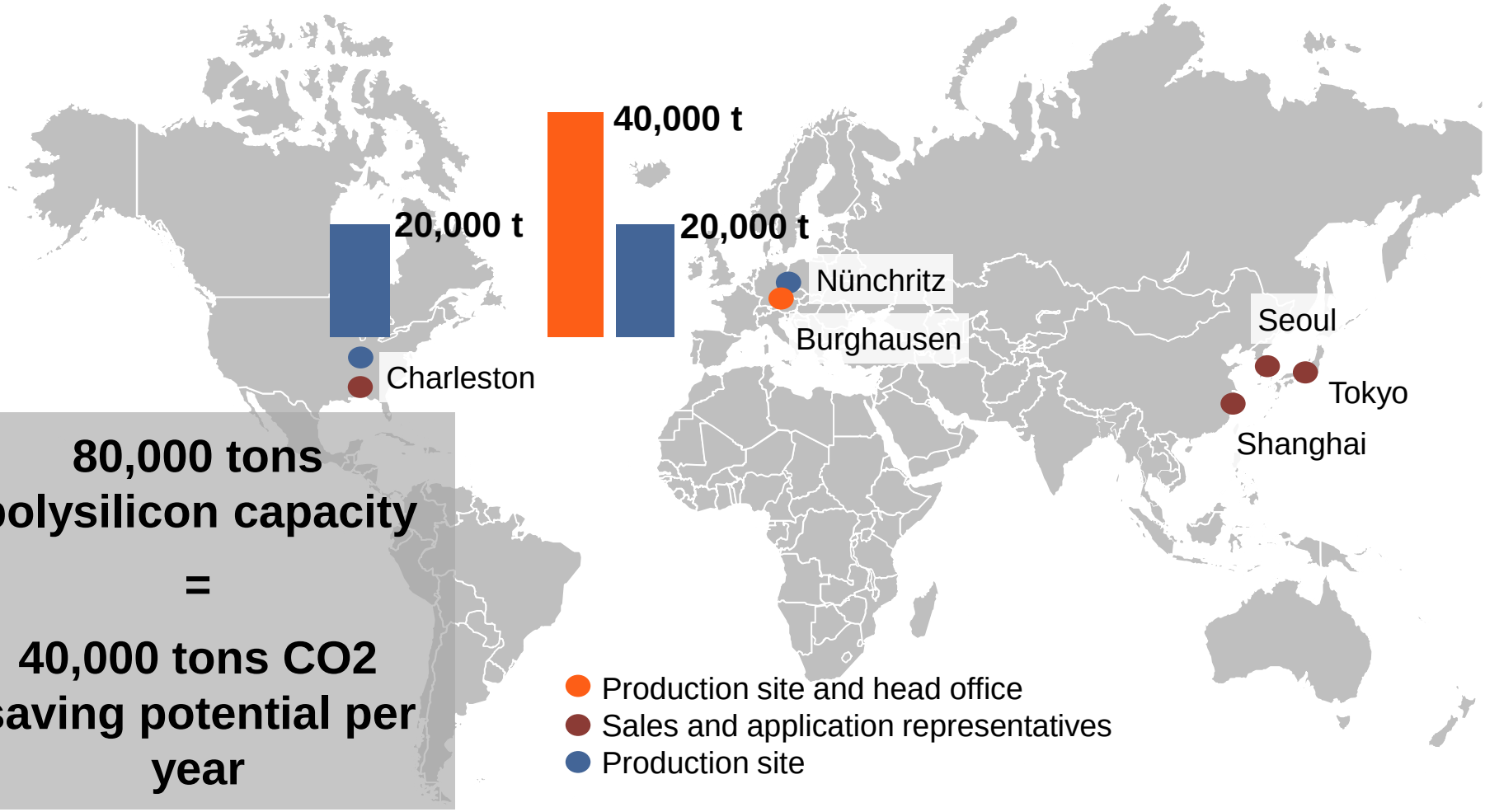
Upside of electrolysis

- Hydrogen electrolyzers have a quick response time to variable power input
- Electrolysis can achieve required high purity of 99.999%

Electrolysis meets technical requirements to replace SMR

WACKER POLYSILICON Is Represented Globally with 3 Production Sites and 5 Sales Offices

Office Locations, Sites and Nameplate Capacities*



80,000 tons polysilicon capacity

=

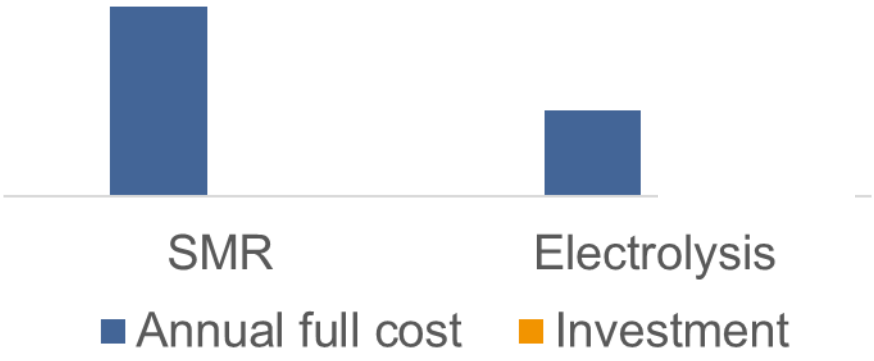
40,000 tons CO2 saving potential per year

* in metric tons per year

Investment Is Currently Too High to Be Undertaken Without Funding

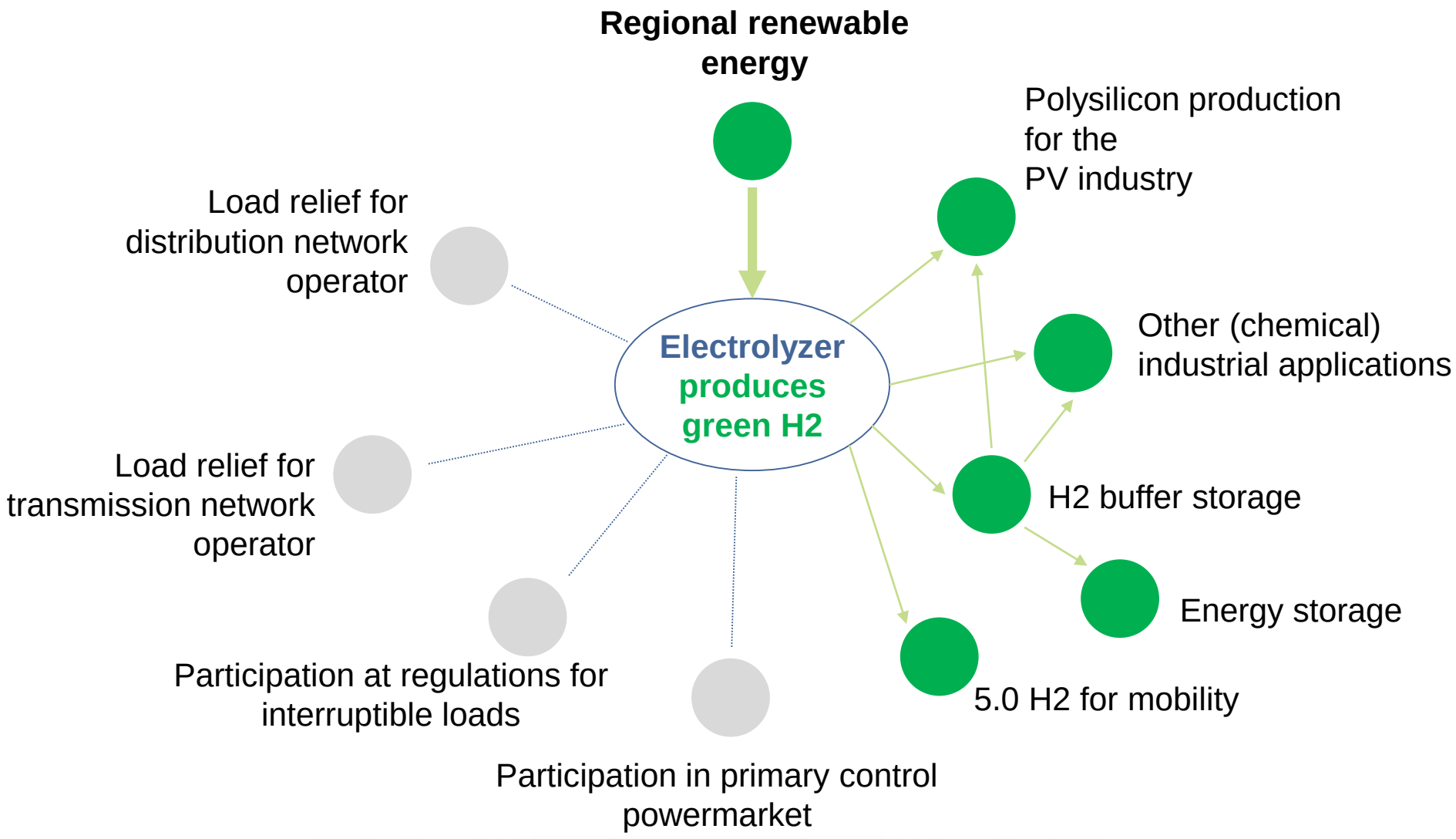
- Electrolyzer requires new investment (15-30 mio. EUR)
- Operations with renewables requires additional storage
- Other suppliers have made a more competitive offer to make SMR cheaper for WACKER

Cost SMR vs. Electrolyzer



▶ ca. 40% funding is required to realize switch to electrolysis

Electrolyzer Technology Unlocks Various Opportunities Beyond WACKER‘s Own Interest



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