



NEXWAFE



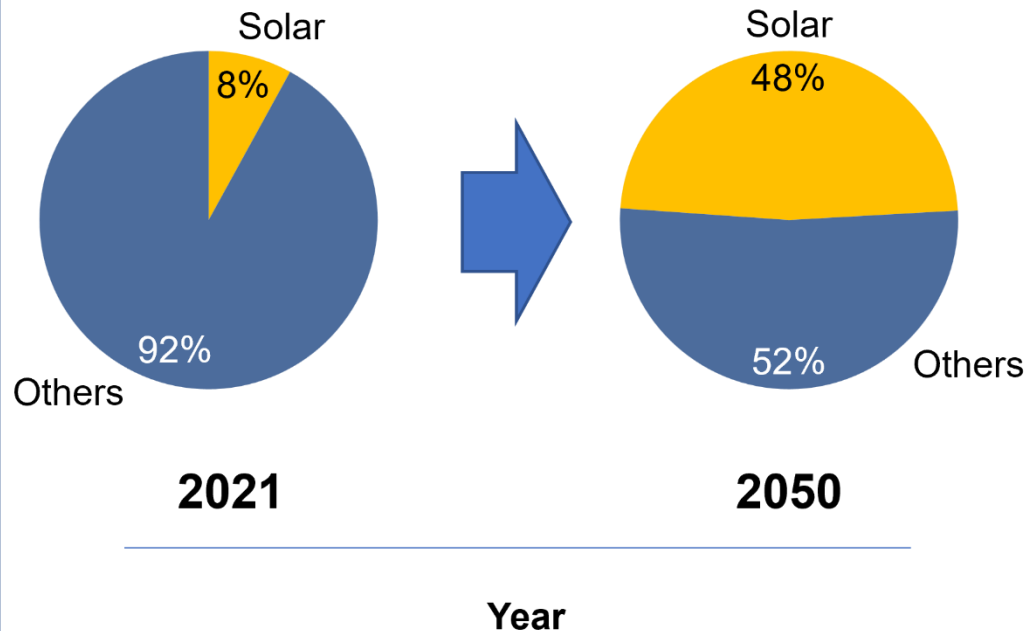
Green Solar Wafers Accelerate the Energy Transition

Davor Sutija, CEO NexWafe
Ecosummit March 2023

nexwafe.com

Solar Deployment to Energy Transition & Hydrogen Economy drives need for Green Solar Wafers

Installed capacity per technology
Percentage



PV Solar

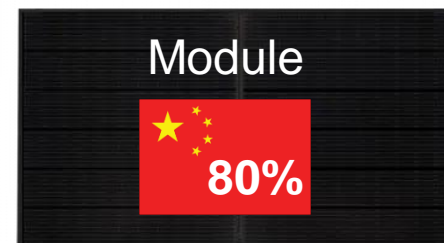
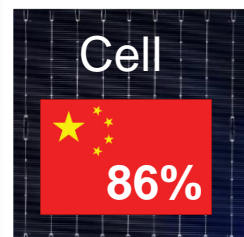
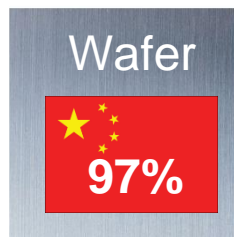
is a key technology for the Energy Transition.

\$ 30 billion TAM for solar wafers by 2030

30.000 TWh of new
renewable energy needed to satisfy
green hydrogen demand

Combination of Solar and Wind makes arid/semi-arid locations ideal for Green Hydrogen

PV industry requires higher efficiency wafers to reduce dependence on China



Improvement & scale of production largely exploited



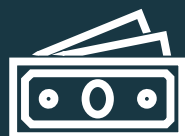
LCOE* reduction will be driven by increasing cell efficiency



Wafers are the most energy intensive component of a module



EpiWafer - a **green drop-in** replacement

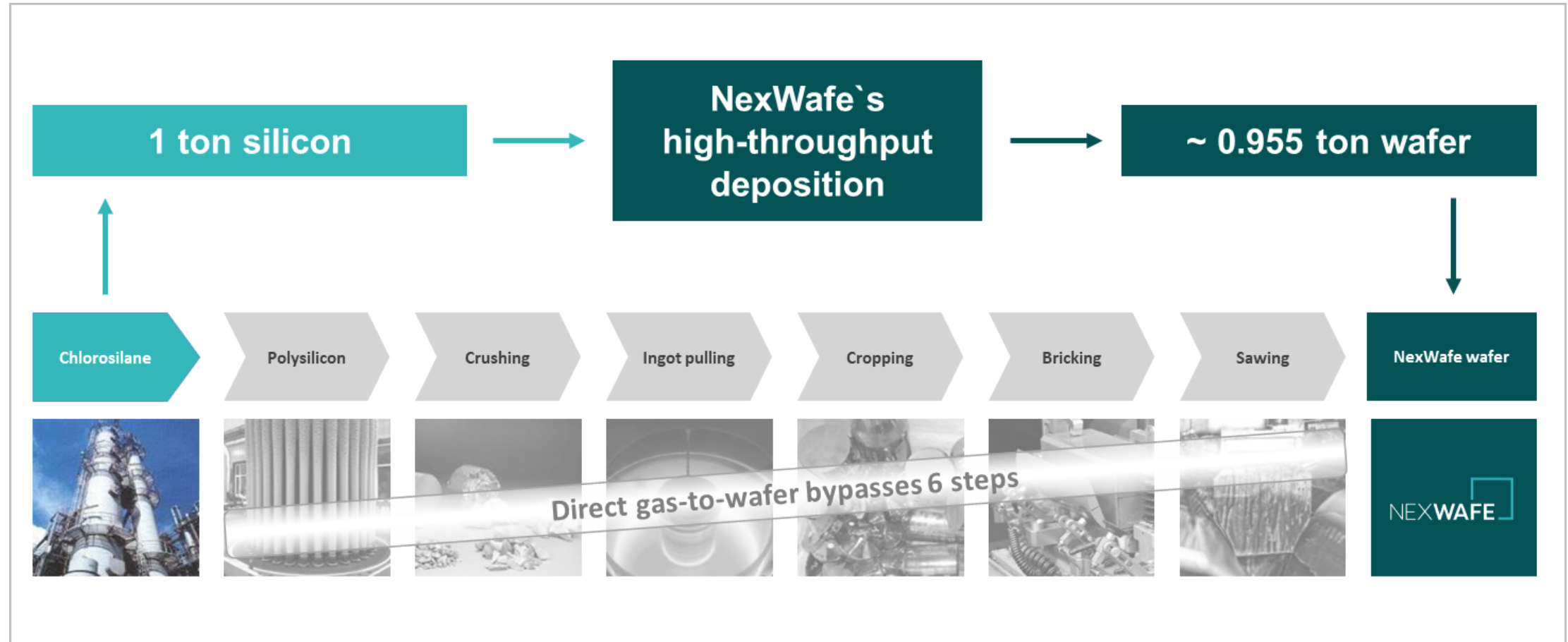


Wafers are the most expensive component of a module



EpiWafer – cost effective enabling production outside China

NexWafe EpiNex™ Gas-to-Wafer Technology skips energy-intensive steps



NexWafe EPINEX Process Flow



Key processes of Direct Gas-to-Wafer technology

Release Layer Formation

- Anodic oxidation
- Designed for wafer sizes up to 210 mm x 210 mm

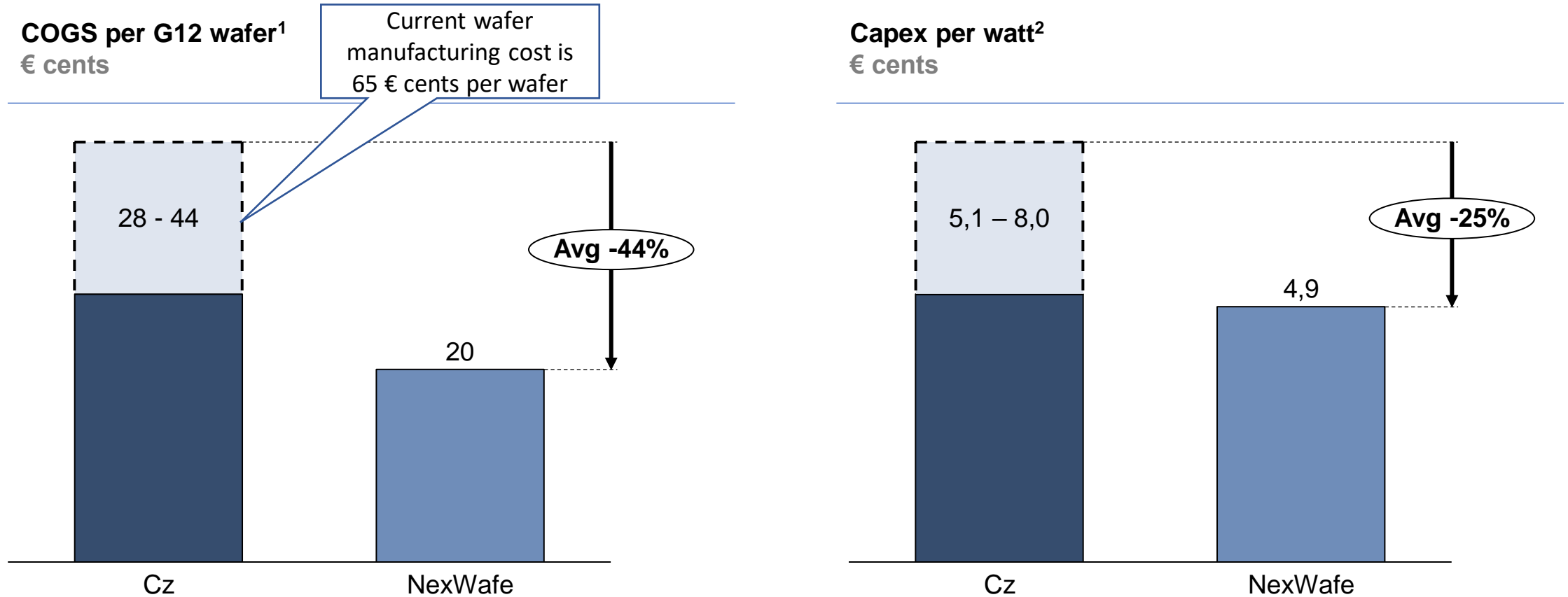


High-Throughput Epitaxy

- Atmospheric pressure CVD
- Modular machine concept
- Chamber size equal size in production tool



NexWafe's EpiNex™ technology is more competitive at scale than Cz on both COGS and Capex

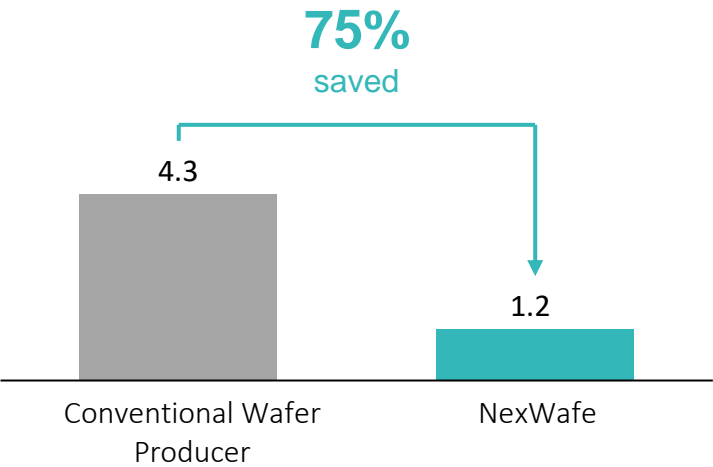


1. Expected COGS in 2027-2029 for a 12 GW factory, it does not include depreciation costs
 2. Cz capex for recent wafer and polysilicon fabs built in China, NexWafe reference for a 12 GW factory
- Source: Exawatt and NexWafe analysis

Dramatic reduction of CO₂ emissions during manufacturing

Less energy intensity equals less CO₂¹

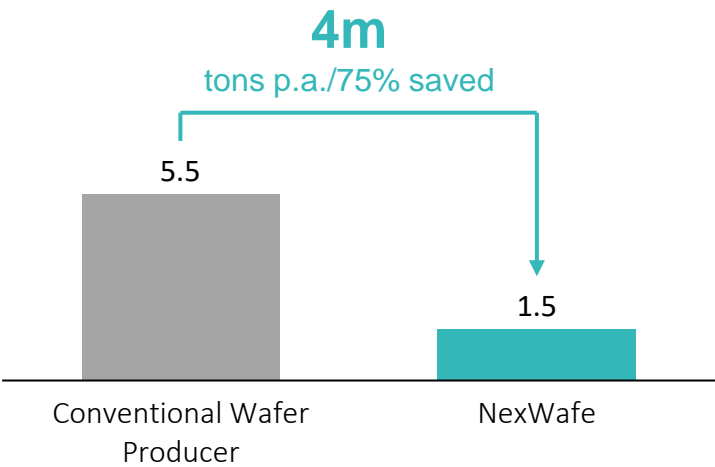
kg CO₂ per wafer



Obsoletes energy-intensive steps:
(no polysilicon production,
no ingot pulling and shaping)

Potential for carbon credit saving

m tons CO₂ emitted
per 15 GW wafer fab annually



At carbon credit levels of €25/ton a saving
of >€100m/year.
Adding >20% to EBITDA

Reduction of 75%
of CO₂ equals ...



~480k
homes' annual
energy usage

or

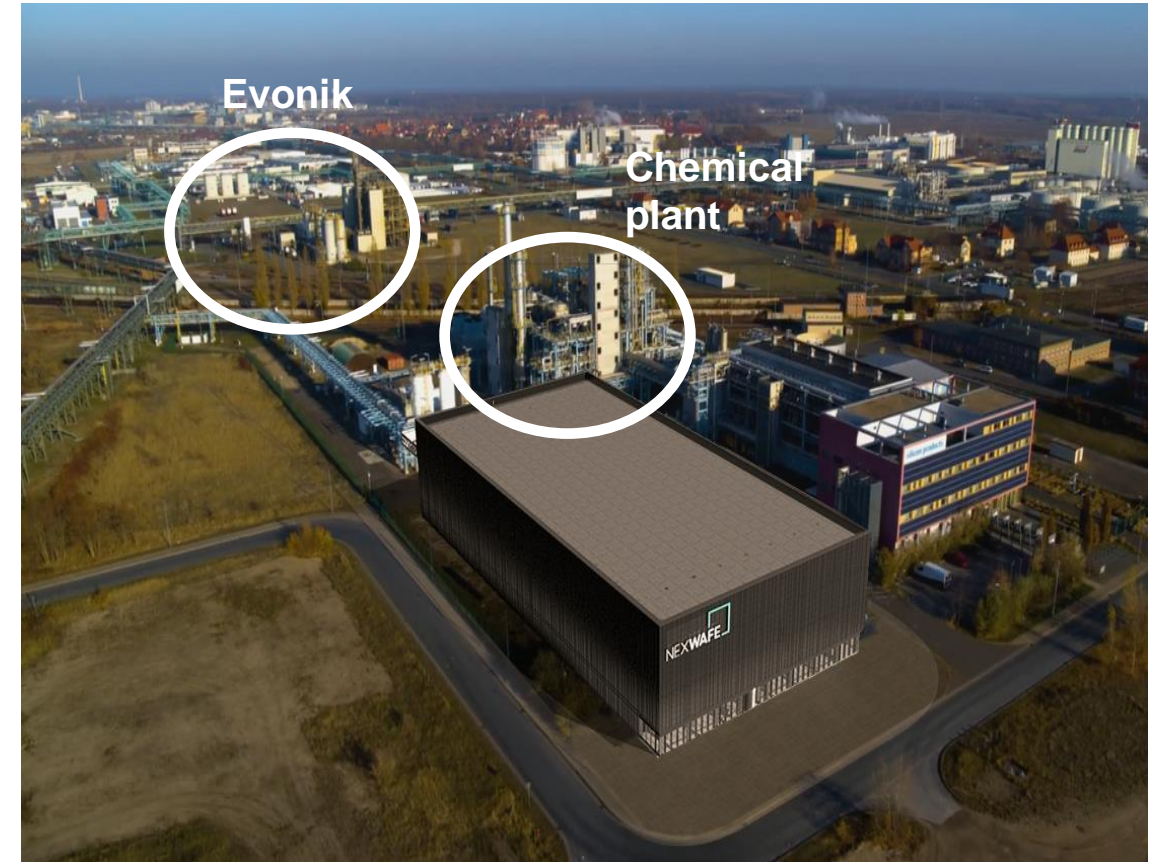


~870k
Passenger cars
driven for one year

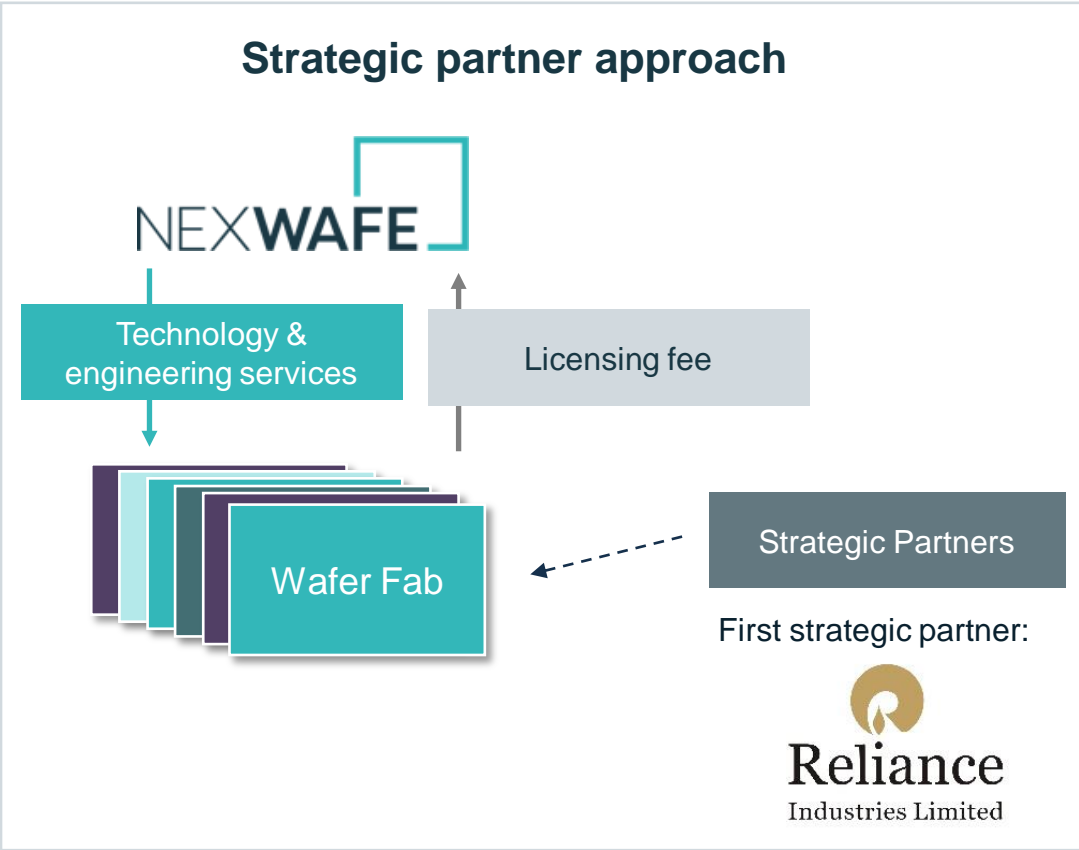
Planned First Commercial Factory – Bitterfeld, Saxony-Anhalt

- ✓ **Chemical plant already on site**
reduces Nexwafe's time to market by 2 years
- ✓ **Raw material supply next door**
STC delivered through pipeline from Evonik
- ✓ **Growth optionality at lower CAPEX**
minimal capex in chemical plant for expansion to 3 GW

GW-scale production in North America next step –
Pilot shows commercial viability allowing NexWafe to
adopt licensing model



Reliance signed as first Partner – Further Scale anticipated with Partnerships in Low-cost Countries



Attractive fab economics at each size and location

	250 MW	3 GW	6 GW	10 GW	12 GW
Europe	PILOT >25% gross margin ¹	~20% project IRR >35% gross margin ¹			
United States					~70% project IRR >65% gross margin ¹
India			~32% project IRR >50% gross margin ¹		~53% project IRR >70% gross margin ¹
Middle East				~46% project IRR >65% gross margin ¹	

Investors include:





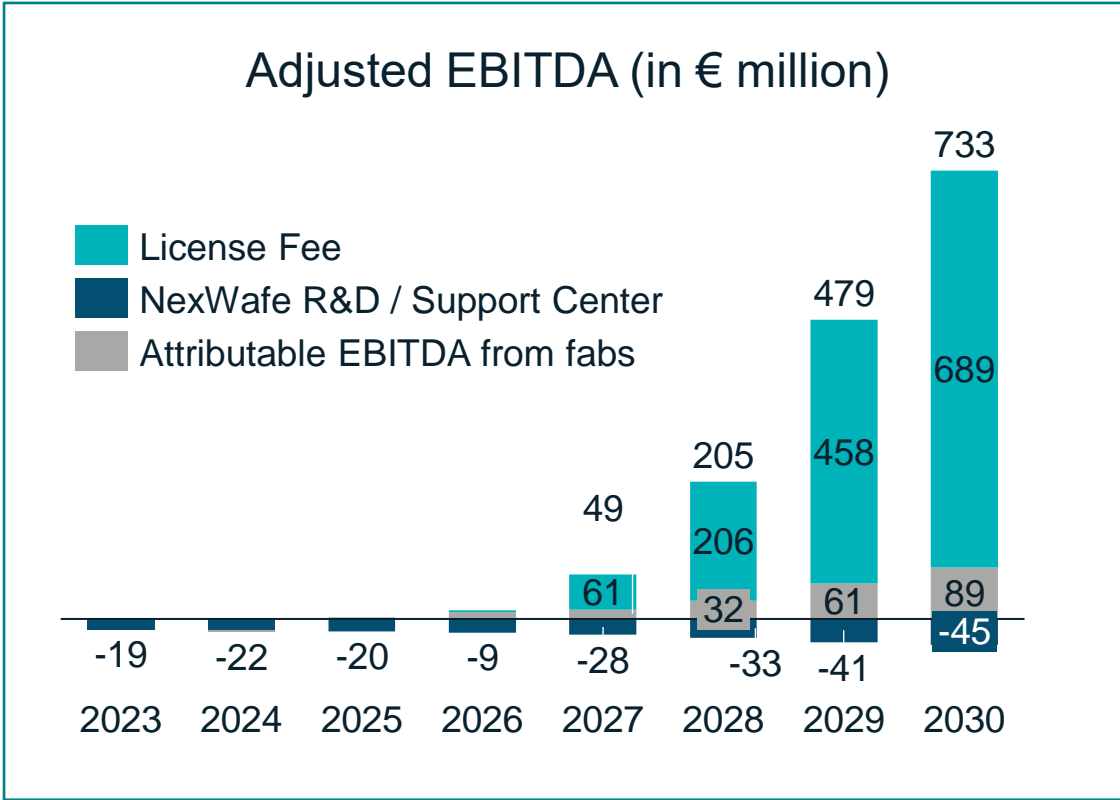
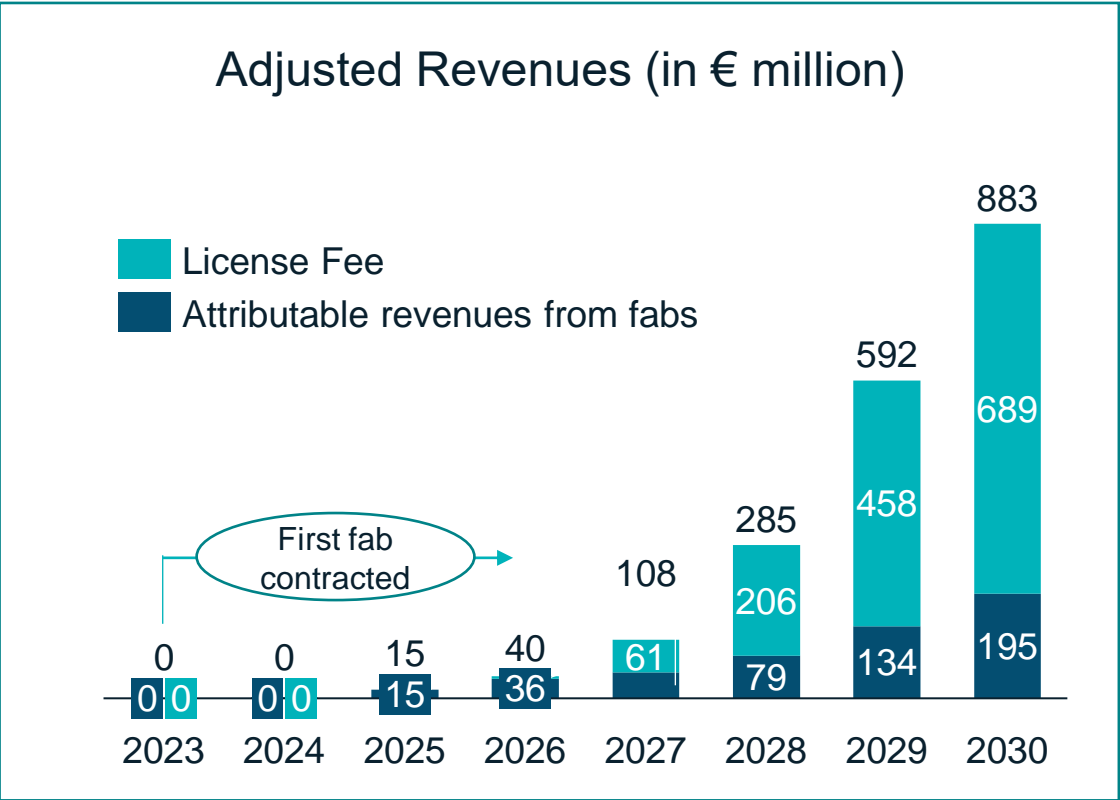


Each Gigafactory adds
€1 bi in NPV to
NexWafe

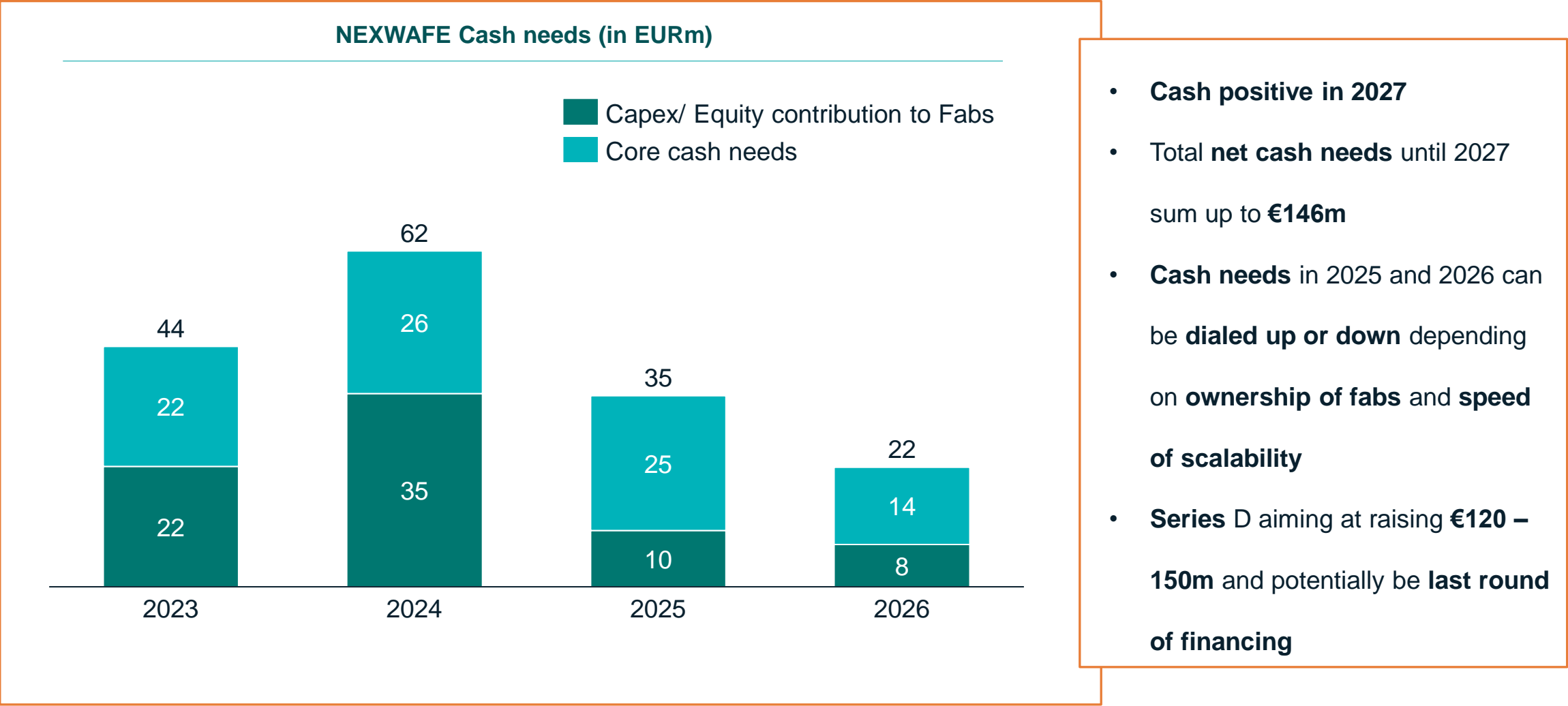
Scalable revenues from licensing and joint-venture model

Ideal Partners:


- Provide market access and leverage existing supplier ecosystem
- Benefit from IRA and other regional private-public partnerships
- Often established process engineering Forbes 2000 companies



Net cash needs €146m over next 4 years until NexWafe reaches profitability



Series D Completes Funding Required for first commercial factory

	C ROUND	D ROUND	EXIT / IPO
	Q4 2021	FY2023E	<FY2028E
MILESTONES	Team in place	Pilot Fab construction	Large Scale Fabs running
	TRL 5 level	TRL 7/8 level	TRL 10 level
	Strong customer interest	Goal: 2 nd Strategic partner signed	Multi-GW deployed
			
FINANCING	Raised 39m € Strategic Partnership with RIL	120-150m, of which half from current investors	Profitable with >200m EBITDA



Significant cost advantage



CO₂ savings



Roadmap to ultra-high efficiency



Best in-class and protected innovation

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Thank you for
your time