





_FACTBOOK

2020

WACKER: At a Glance

Facts & Numbers

€666m

EBITDA in 2020

€4,692m

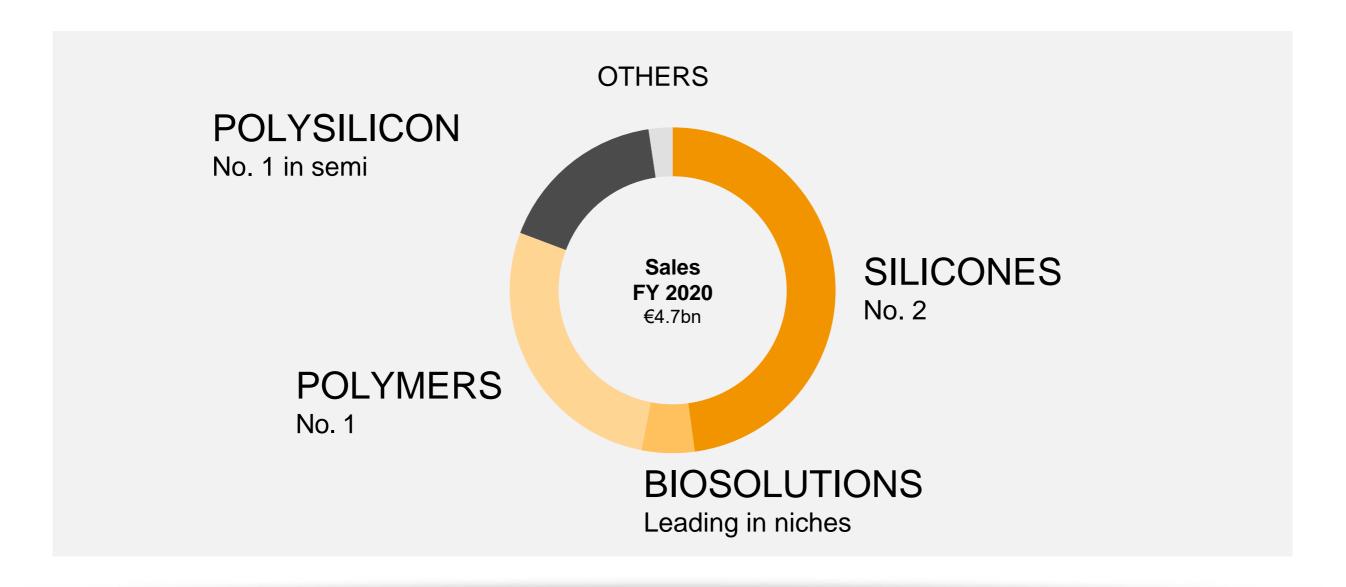
Sales in 2020

14.2% EBITDA margin in 2020

4 Business Segments



WACKER: An Overview



Fact Book 2020: Agenda



At a glance_p.4



BIOSOLUTIONS_p.42



Strategy_p.10



POLYSILICON_p.57



SILICONES_p.17



Sustainability_p.65



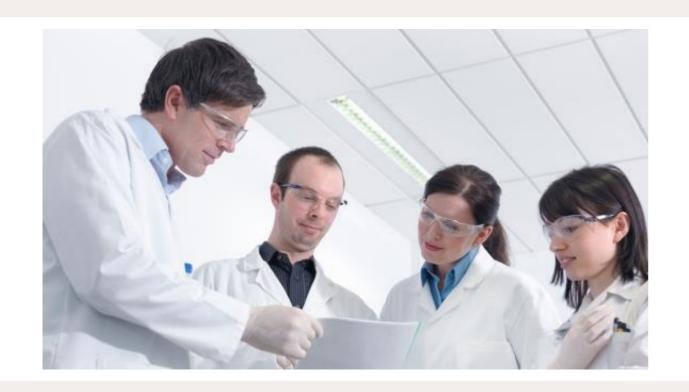
POLYMERS_p.29



Financials_p.76









WACKER - AT A GLANCE

WACKER AT A GLANCE Over 100 Years of History

From 1914 to Today

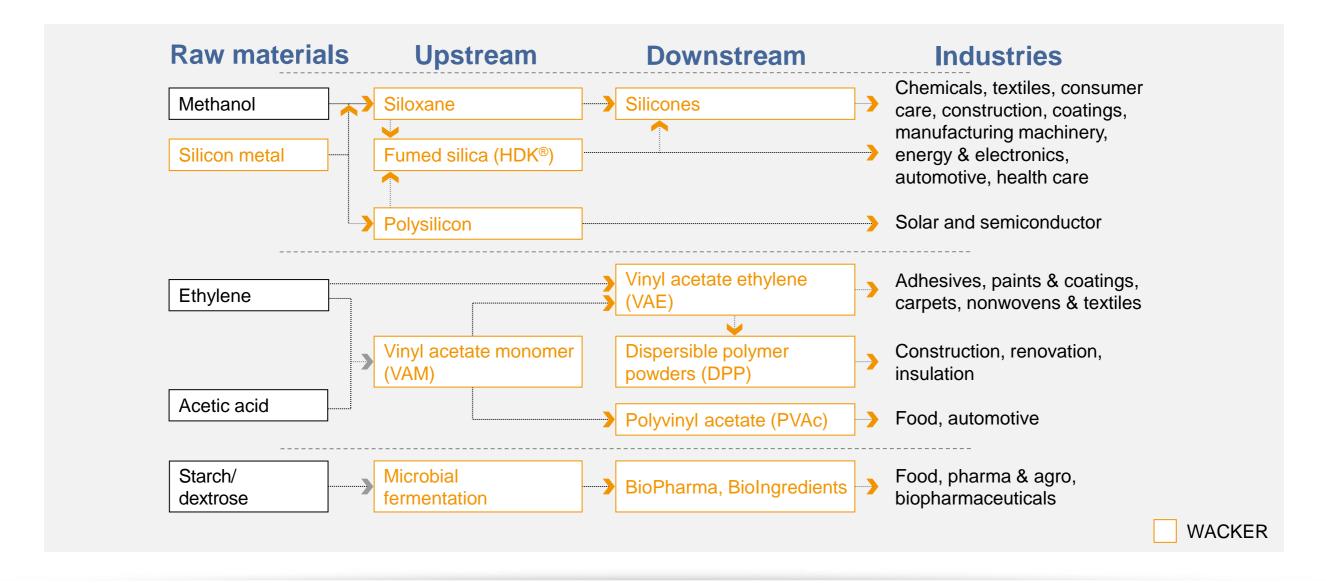


1914	1921	1947	1953	1966	1978	1998	2006	2007
Foundation "Dr. Alexander Wacker Ges. für elektro- chemische Industrie KG"	Hoechst with 50% of the share capital of WACKER	Start of work in the area of silicones	Production of semi- conductor grade polysilicon	Production of VAC- Ethylene- Copolymer Burghausen (DE)	Foundation of the Wacker Siltronic Corporation (US)	Takeover of the silicone site Nünchritz (DE), JV with APCI: APP/WPS ¹	WACKER IPO; JV with Dow Corning (CN), JV Siltronic Samsung Wafer	Acquisition of outstanding shares of APP/WPS ¹
2008	2010	2012	2015	2016	2017	2018	2019	2021
Inauguration of DPP plant in Nanjing (CN)	Acquisition of silicon smelter Holla (NO)	Inauguration of polysilicon plant in Nünchritz	IPO Siltronic, WACKER holds 58%	Inauguration of polysilicon plant in Charleston,	De- consolidation Siltronic, WACKER	Acquisition of BioPharma site in Amsterdam	Inauguration of fumed silica plant in Charleston,	Acquisition of plasmid DNA site San Diego, CA

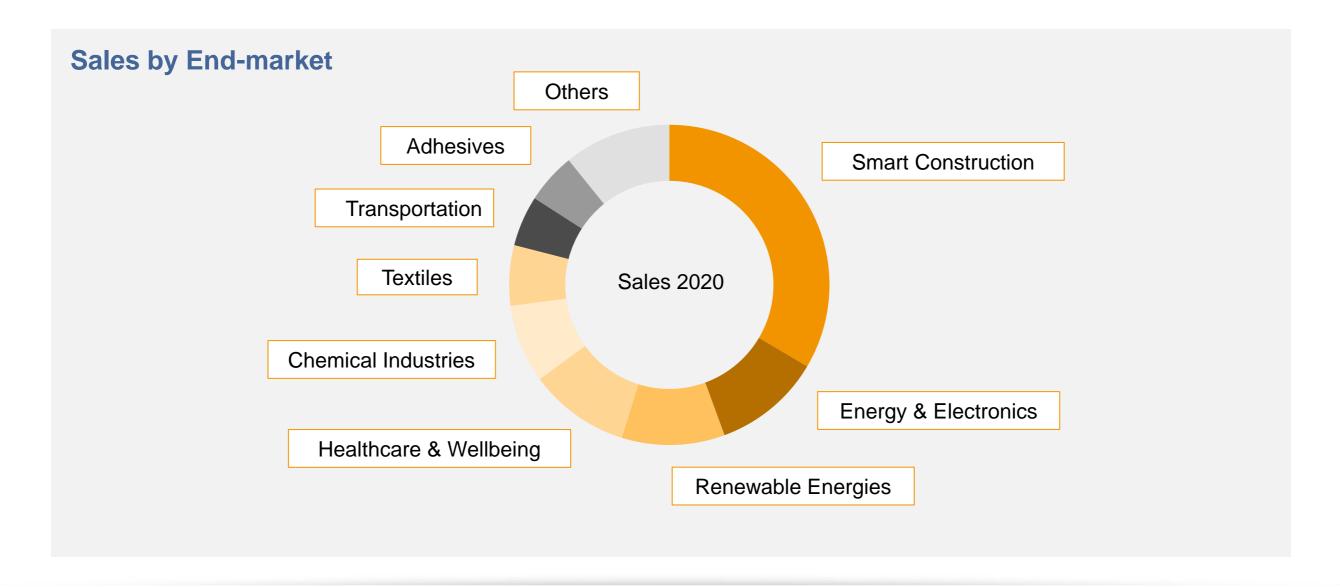


¹⁾ APP/WPS = Air Products Polymers/WACKER Polymer Systems

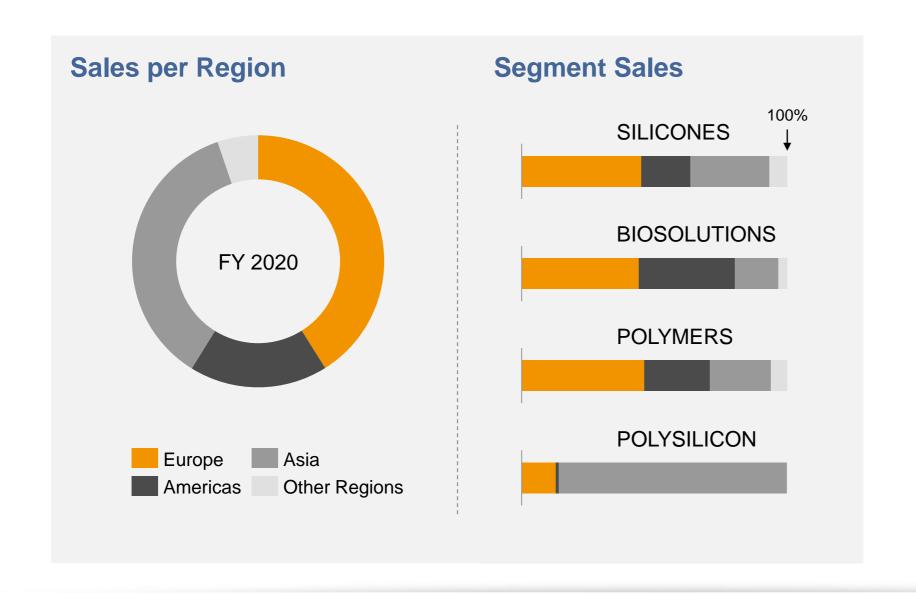
WACKER AT A GLANCE Highly-Integrated Operations Based on Five Key Raw Materials



WACKER AT A GLANCE Well Diversified Key Markets



WACKER AT A GLANCE Supporting Customers with a Global Footprint and Regional Presence



Employees

• Globally: 14,283

• Europe: 10,743

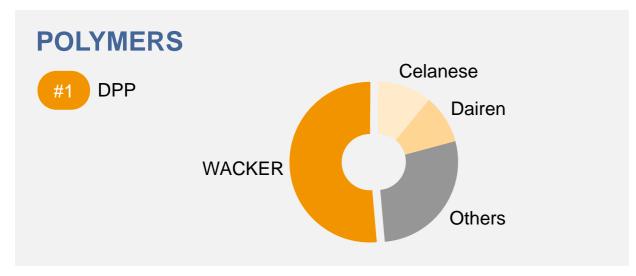
Americas: 1,625

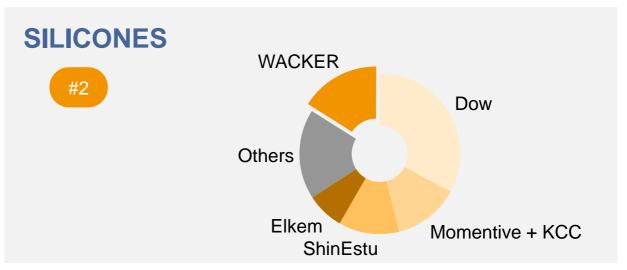
Asia: 1,847

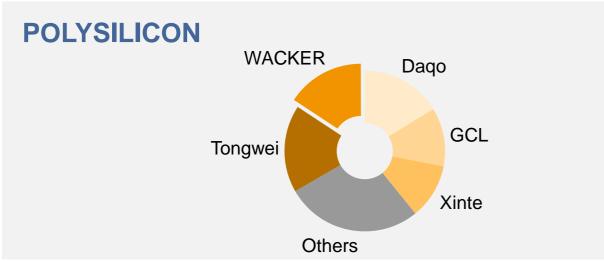
Other Regions: 68

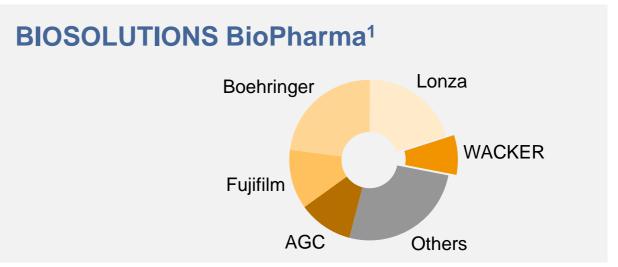


WACKER AT A GLANCE Market Leading Positions





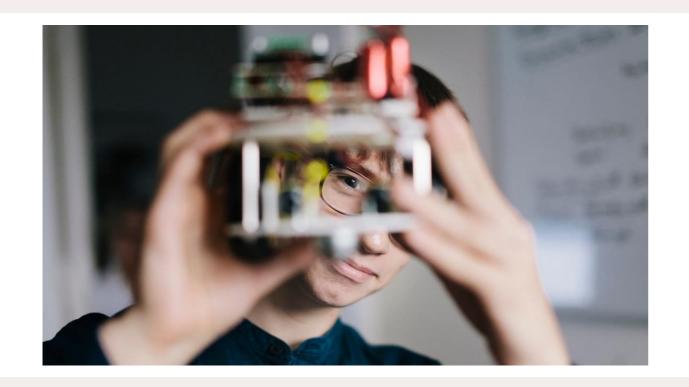




Source: WACKER JV participations fully consolidated, Industry Announcements,1) Microbial CDMO Source: Biopharmaceutical Contract Manufacturing 2020







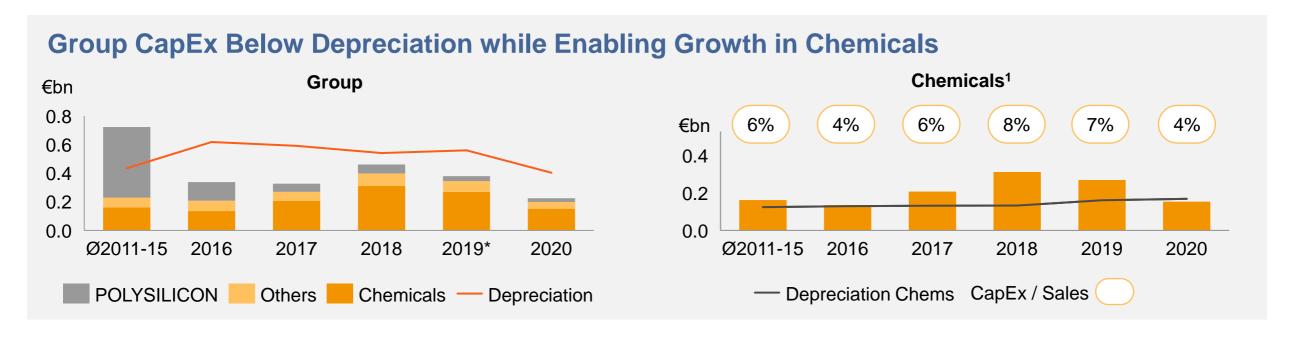


WACKER – STRATEGY Cash, Growth and Sustainability

WACKER STRATEGY Profitable Growth, Leading Market Positions and Sustainability

WACKER Five Strategic Goals

1	CapEx – Extend Leverage Phase	Capitalize on growth opportunities in Chemicals while maintaining Group CapEx < Depreciation
2	Grow Above Chemical Production	Specialties and demand for applications in smart construction drives sales above chemical production
3	Focus Strongly on Sustainability	Continuous efficiency gains lower corporate footprint while expanding sustainable product solutions
4	Achieve Attractive Margins Over the Economic Cycle	Mix improvement and excellent cost performance maintains Chemicals >16% EBITDA target
5	Generate Cash	Strong cash generation funds investments and dividends while maintaining a strong balance sheet



Pivot to More and Smaller Projects to Support Customers Downstream

Europe

Silicones Nünchritz: '22

▶ Silicones Burghausen: '21

▶ Polymers Burghausen: '21

Asia

Polymers Nanjing: '22

Polymers Ulsan: '19/20

Silicones Zhangjiagang: '19

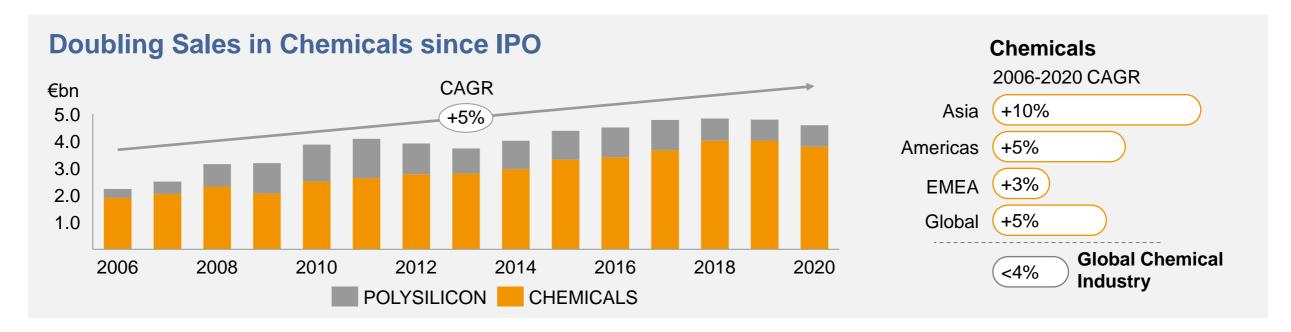
Americas

▶ Silicones Adrian: '22

▶ BioPharma San Diego '21

► HDK®-Tennessee: '19

1) Chemicals = BIOSOLUTIONS + SILICONES + POLYMERS *Depreciation excl. POLYSILICON impairment; **BOLD** = Upstream & midstream



Main Drivers for Chemicals Growth

Regional Growth

- Emerging markets catch-up
- Transformation to advanced technologies
- ▶ Higher building standards

Innovation

- ~4,200 active patents and ~1,400 pending patent applications
- Annually, the Group applies for 90-100 inventions

Substitution

- Customized solutions
- High performance materials
- Lower raw material consumption

Our Comprehensive 3-Tiered Approach to Sustainability



Value UP

Enable our customers to provide more sustainable solutions



Footprint DOWN

Create efficient operations & use resources responsibly



Collaboration BEYOND

Strive for a more sustainable value chain

Actively Supporting Global ESG Initiatives and Receiving Highest Recognition

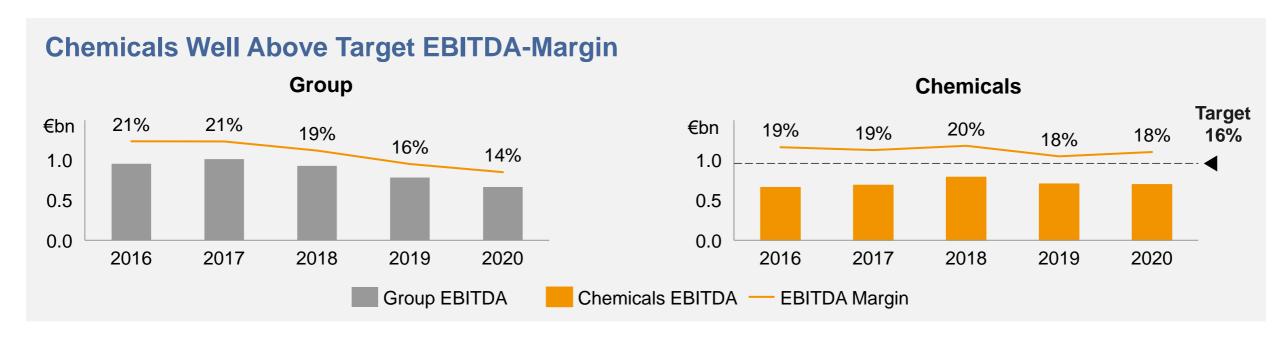
Voluntary Global Initiatives

- UN Global Compact
- ▶ Responsible Care
- ▶ Together for Sustainability

Carbon Transparency

CDP "B" in Climate Change and "B" in Water Security in 2020 **ESG**

- Oekom "B- Prime" 2021
- ▶ Ecovadis "Platinum" 2020
- ▶ MSCI "BB" Rating 2020



Strong Performance in Chemicals, Competitive Environment in POLYSILICON

Group

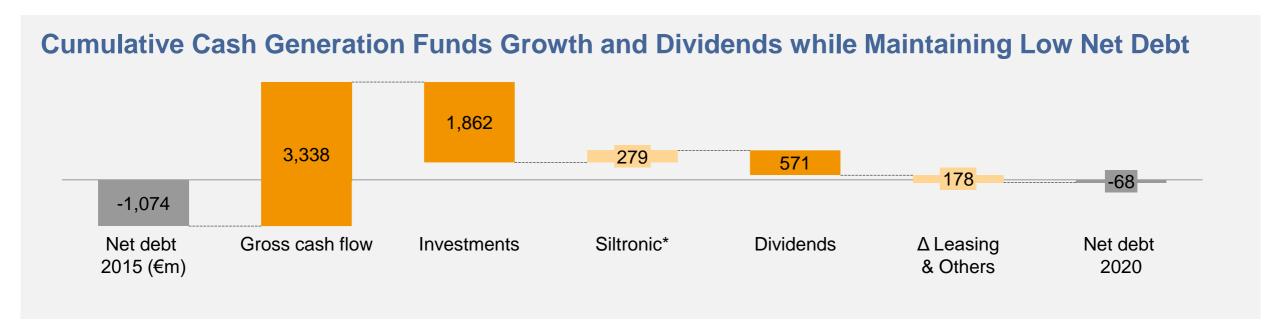
- High plant utilisation and excellent cost performance in Chemicals
- ▶ Siltronic deconsolidation in 2017

Chemicals

- ▶ SILICONES: improved product mix
- POLYMERS: rising demand for smart construction
- ▶ BIOSOLUTIONS: rapidly growing BioPharma business

POLYSILICON

- WACKER is clear #1 for semiconductors
- Good progress on cost roadmap



Specialty Focus, Budgeting and Cost Discipline Drives Strong Cash Generation

Drivers to Gross Cashflow

- Strong cash generation in Chemicals
- Strict working capital management
- Pension top-ups of €145m 2019-2020

Drivers to Net Debt

- Targeted investments upstream & downstream
- ▶ Dividend policy: 50% of net income

FY2020

Working capital at a low level and very low CapEx

*Cash flow effects from deconsolidation of Siltronic in 2017



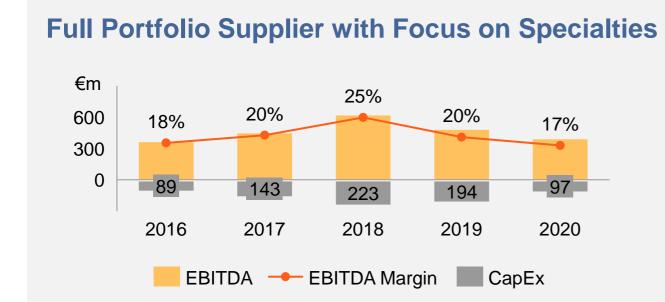


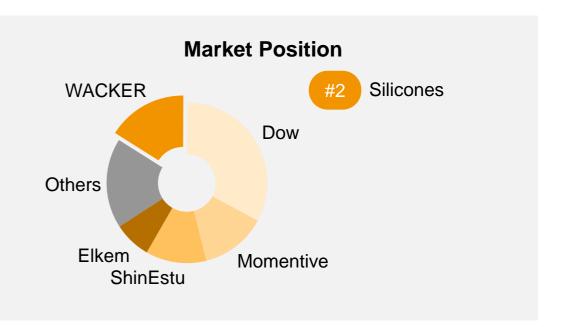




WACKER – SILICONES

WACKER SILICONES At a Glance





Drivers for SILICONES

Growth

- Versatile chemistry with excellent performance and strong substitution drive
- Reduced cyclicality through broad market and customer diversification

Performance

- Intensive knowledge / best practice sharing between regional competence centers
- ▶ Investment focus on specialties
- Focus on cost and efficiency

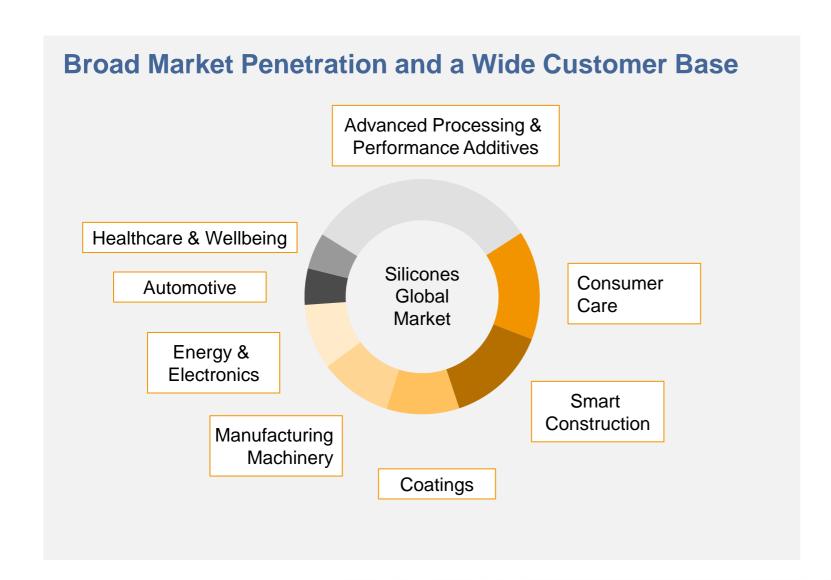
Sustainability

- Silicones enable CO₂ savings* in numerous applications
- Renewable raw material solutions

*Source: Silicon Chemistry Carbon Balance, Global Silicone Council



WACKER SILICONES Serving Diversified End Markets



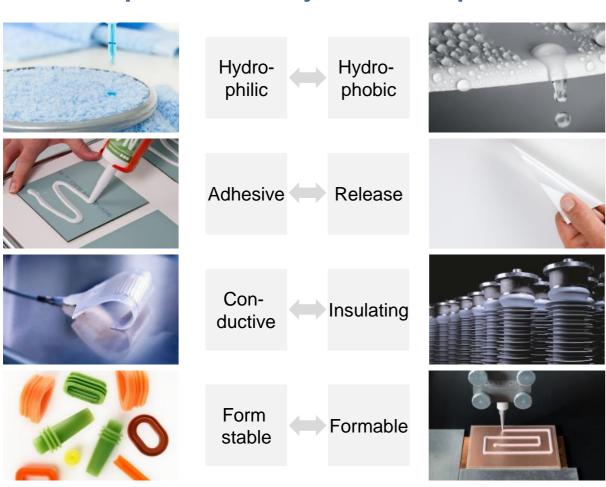
Market Drivers

- ▶ Automotive ↔ E-Mobility
- ▶ Health Care → Ageing Population
- ▶ Construction ↔ Urbanization
- **▶** Electronics ↔ Communication
- Consumer Care ← Living Comfort
- ▶ Sustainability ↔ Resource Efficiency

Industry Split; Source: Freedonia

WACKER SILICONES A Basis for Unlimited Applications

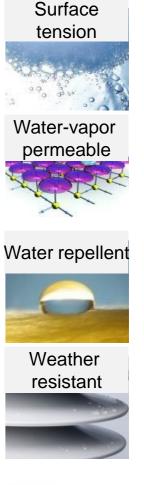
Broad Spectrum of Adjustable Properties



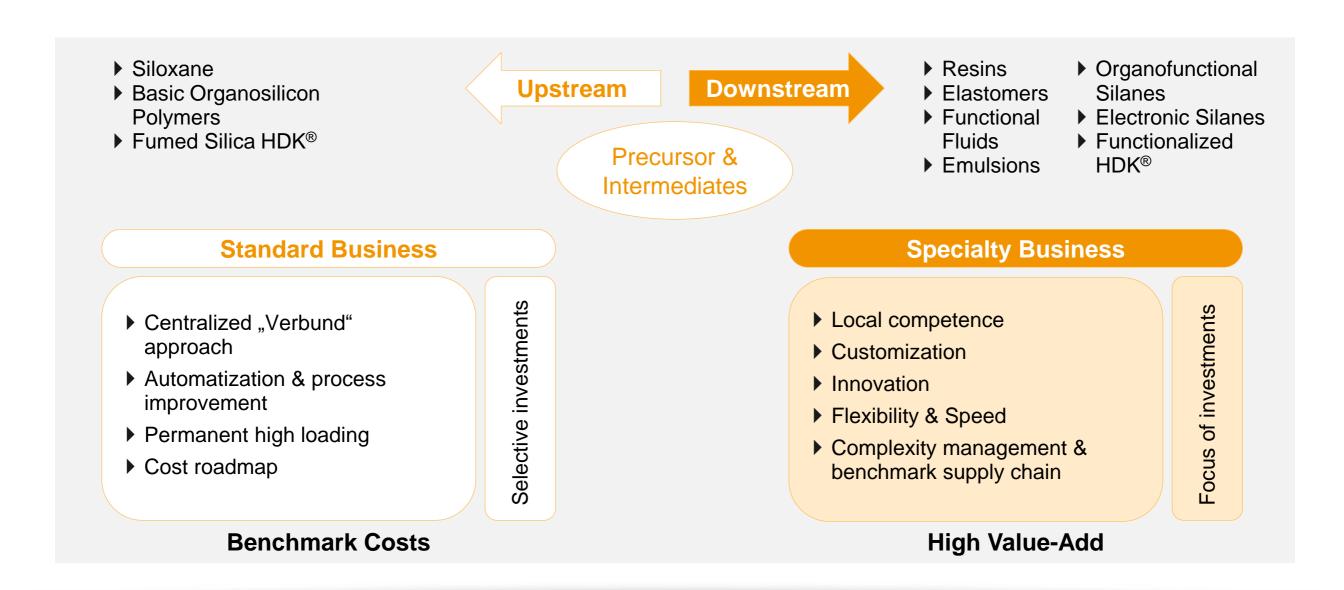
Customized Products with Unique Properties





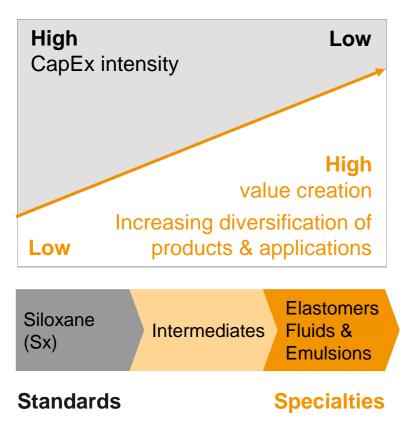


WACKER SILICONES Balancing Up- and Downstream is a Key Success Factor



WACKER SILICONES Substantial Downstream Investments to Foster Specialties Growth

Full Portfolio – Specialty Focus

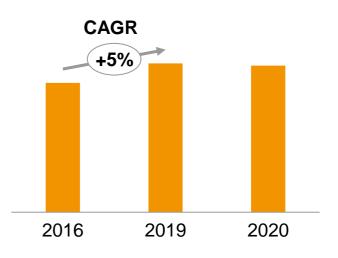


Success Factors

- Localization of service and downstream production close to customers
- Preferred development partner
- Sufficient Sx volumes at benchmark cost to support specialties growth without upstream investments

Mix Shift Towards Specialties





- ▶ Specialties stable in 2020
- Targeted investments to support downstream growth

WACKER SILICONES Advanced Adhesives Drives Strong Market Growth

Silane-Modified Polymers with Excellent Performance & Substitution Drive

Performance

Excellent adhesion & elasticity for nearly all material combinations

Environment

Unique α-technology enables tin-, plasticizer-, and isocyanate-free systems



GENIOSIL® STP-E



Fast-Growing Market

SMP end consumer market¹ with >12% CAGR

Each Product Generation

Increases number of addressable markets



GENIOSIL® XM

1) SMP = Silane Modified Polymer; Source: LP Information Market, Study, April 2020, Global Hybrid Adhesive & Sealant Market Growth 2020 – 2025



WACKER SILICONES Wind Energy with Continued Growth on the Back of Clean Energy Policies

HDK®: Enabling Longer and Stronger Rotor Blades with Fumed Silica Bonding Pastes

30%

of the future electricity demand in the EU will be supplied by offshore wind*

Performance

requirements increase with longer and heavier rotor blades

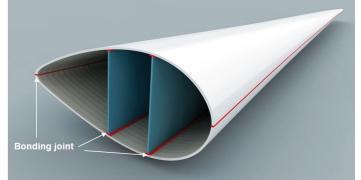
20% CAGR

~50 GW of offshore wind energy installed globally over next 5 years**

Bonding matters

Huge forces in harsh environment for >25 years







*Source: European Commission: EU strategy on offshore renewable energy; **GWEC Global Wind Report 2019; March 2020

WACKER SILICONES Growing Silicones Content Due to E-mobility, Autonomous Driving & Connectivity

Silicones Protect Critical Components in Hybrids, Electric and Hydrogen-fuel Vehicles

90%

reduction of greenhouse gas emissions targeted in the European transport sector by 2050*

Essential

in batteries, sensors, power conversion, e-motors, cables, fuel cells and displays







Silicones

ensure top performance, functionality and long service life under extreme conditions

Up to 4x

higher silicone content in EV vs. ICE cars







*Source: European Commission: The European Green Deal - Sustainable mobility

WACKER SILICONES Setting the Industry Benchmark for Non Post-Cure Liquid Silicone Rubber

Low Volatile LSR Combining Performance with Excellent Productivity and a Sustainable Industry

Energy savings

and increased productivity by avoiding post-curing

>80%

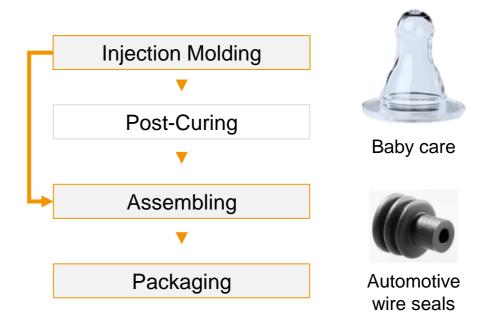
reduction of volatiles in non post-cured state

Environment

benefits from emission reduction

Low volatile

content designed for sensitive applications: food, baby care, medical and automotive



WACKER SILICONES Huge Energy Savings with Leading Edge EAP Technology

Electro-Active Laminates: Convert Electrical Energy into Mechanical Work

99.5%

energy saving vs. comparable solenoid actuator

40-60%

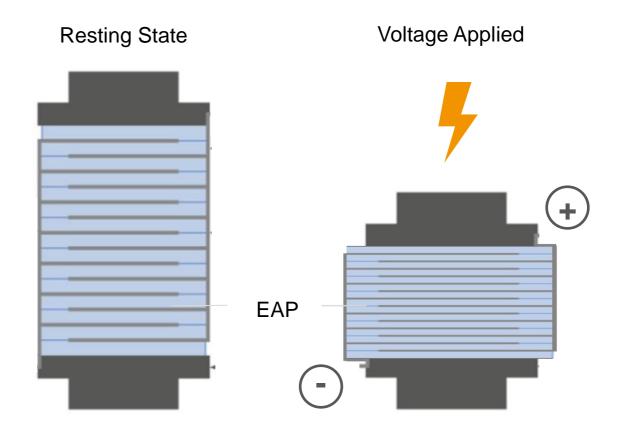
weight reduction vs. comparable solenoid actuator

Best-in-class

Silicone-based EAPs¹ with unlimited charge & recovery cycles

€40bn

actuators market² with 8.6% CAGR



Source: European Commission: Energy Efficiency in the context of the European Green Deal
 Source: MarketsandMarkets "Actuators Market by Actuation, Type, Application, Vertical, and Region – Global Forecast to 2024", 2019

WACKER SILICONES Full Portfolio Provider with Focus on Specialties

Strategic Focus and Roadmap

Value Creation

- ▶ Focus on downstream projects to support our customers' specialty applications
- Lower capital intensity with higher return on capital



Innovation

- Extend our global competence network and grow local markets
- Preferred innovation partner of our customers



Operational Excellence

▶ Benchmark costs with continuous improvements





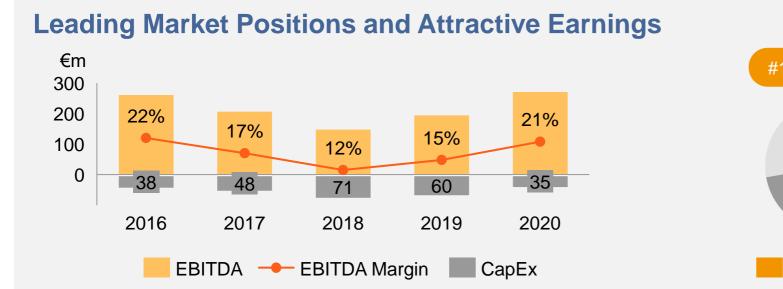


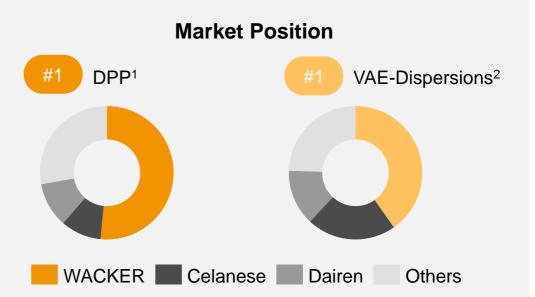




WACKER – POLYMERS

WACKER POLYMERS At a Glance





Drivers for POLYMERS

Growth

- Intact growth drivers in key markets and broad scope of applications
- Diverse market & customer base
- ▶ Growth partner of our customers

Customer Focus

- Global presence with tandem production sites (DPP + VAE) and 16 technical centers
- Innovation and in-depth formulating expertise

Sustainability

- ▶ Enable CO₂ savings with smart construction
- Renewable raw materials solutions

1) DPP = Dispersible Polymer Powder 2) VAE = Vinyl-Acetate-Ethylene based polymer dispersions incl. feed for DPP



WACKER POLYMERS Tandem Sites and Tech Centers Enhance Global Reach



Addressing Individual Regional Market Requirements

Emerging

- Higher building standards
- ▶ Technology transformation
- Growing incomes
- Urbanization

Developing

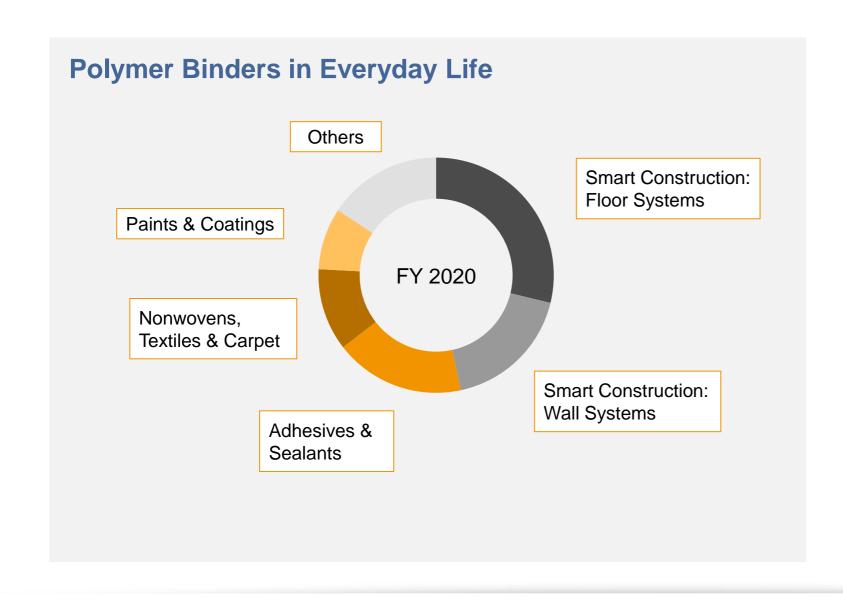
- Material savings & labor productivity
- Increasing quality awareness
- ▶ Local technical support
- Value chain education

Developed

- Renovation
- Technical product requirements
- Value based replacement
- Sustainable products

WACKER POLYMERS

Intact Fundamental Market Drivers Offer Growth Potential



Market Drivers



▶ DPP → Smart and sustainable construction, urbanization and renovation



▶ Dispersions ↔ Growth based on performance benefits and higher incomes

WACKER POLYMERS

Excellent Performance in a Wide Variety of Applications

Consumer & Industrial Polymers

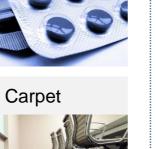


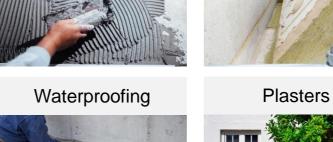


Industrial coatings









Construction Polymers

Tile adhesives









Insulation systems



Flooring







Paper & Packaging



Paints & Coatings





Wood & Furniture

Automotive

WACKER POLYMERS VAE Binders with a Wide Range of Performance Attributes

Features for Consumer & Industrial Applications









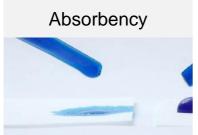




Features for Construction Applications







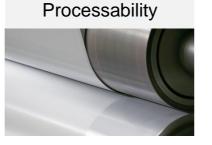












Durability

Adhesion

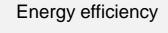




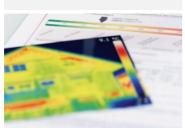
WACKER POLYMERS DPP Technology Provides Answers to Market Requirements in Construction

Growth Drivers

Urbanization







Productivity





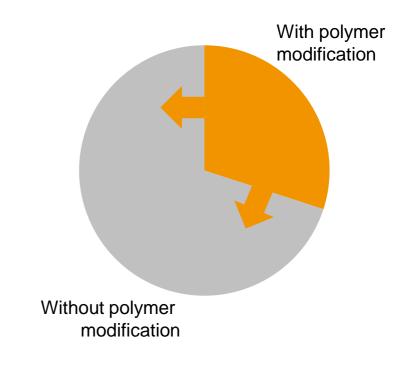


Performance Benefits

- Good adhesion
- Flexibility
- Open time
- Material savings
- ▶ CO₂ savings

Growth Potential

Global Dry Mortar Market



Source: WACKER estimates

WACKER POLYMERS EU Green Deal: a New Catalyst for Growth in Energy Efficient Buildings

Good Adhesion and Flexibility Enable ETICS' Success

~70%

of ETICS* used in renovation

~25%

energy loss of a heated building through facade

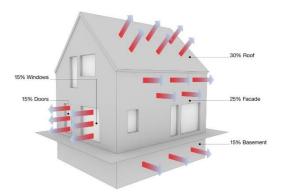
~90%

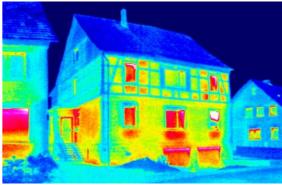
of today's buildings will still be in use in 2050

35 million

inefficient buildings in the EU to be renovated until 2030







*ETICS = External thermal insulation composite systems; Source: European Commission: A Renovation Wave for Europe

WACKER POLYMERS Resource Efficient Solutions with a Low CO₂ Footprint are Required in all Regions

Transformation to Thin Bed CTA¹ Enables Material and CO₂ Savings & Higher Productivity

60%

less sand and cement used in thin bed vs. thick bed application of CTA

~12 million mt

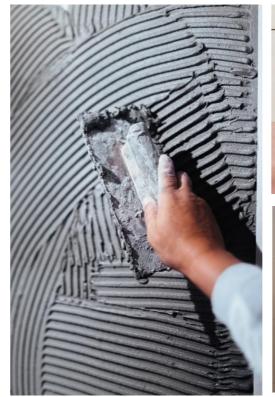
CO₂ equivalent avoided per year by using thin-bed CTA compared to thick-bed²

Local solutions

Enable high quality CTA formulations despite varying cement qualities

>-50%

Reduced time for tile applicator from Ø 30 min/m² down to Ø 15 min/m²







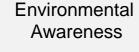
1)CTA = Ceramic Tile Adhesive 2) using the amount produced by WACKER in 2017



WACKER POLYMERS Substitution Drives VAE Growth in Consumer & Industrial Applications

Growth Drivers

Higher Incomes









Resource Efficiency



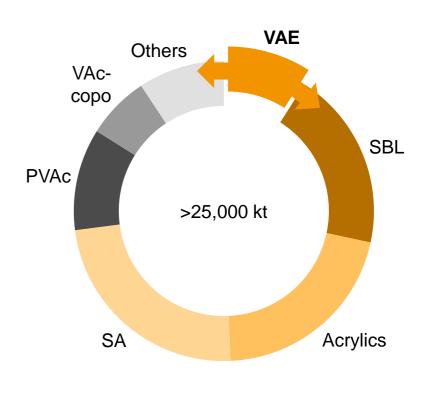


Performance Benefits

- Adhesion-cohesion balance
- Excellent machinability
- Low VOC emissions and low odor
- Low flammability
- Access to renewable raw material base

Growth Potential

Synthetic Polymer Latex Market*



SA = Styrene Acrylics, VAc-copo = Vinyl Acetate Co-Polymers, PVAc = Polyvinyl Acetate, SBL = Styrene Butadiene Latex/
*Source: Kline 2020 / incl. Feed

WACKER POLYMERS VAE Dispersions with Performance Advantages

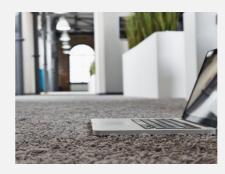
Adhesives



- Balance Cohesion / Adhesion
- Machinability

vs. C3 Chemistry

Carpet



- Very Low Odor / Very Low Emission
- Low Flammability

vs. C4 Chemistry

Non-Woven



- Adhesion to cellulose fibers
- Absorbency (Hydrophilic)

vs. C3 Chemistry

Paints



- Excellent Scrub Resistance
- Very Low Odor / Very Low VOC

vs. C3 Chemistry

WACKER POLYMERS New Solutions Are Developed to Meet Changing Market Requirements

VINNAPAS®, PRIMIS® and NEXIVA® – Solutions for Paints and Coatings Applications

Ultra Low VOC

water borne paints based on VINNAPAS® products with VOC content <1g/L

Easy-to-Clean

PRIMIS® as co-binder improves scrub resistance of paints

Biocide-Free

dry binder solution based on NEXIVA® dispersible polymer powders

Positive Outlook

of major architectural paint producers



WACKER POLYMERS Sustainable Binder Solutions

Strategic Focus and Roadmap

Customer Focus

- Global presence with production and technical centers
- Continuously expanding production capacity to support customer's growth



Substitution by Innovation

- Value based substitution
- Transformation towards higher building standards



Sustainability

- ▶ New product releases based on renewable raw materials
- CO₂ savings with smart construction demonstrated







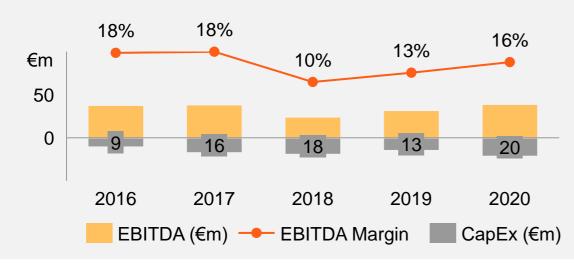


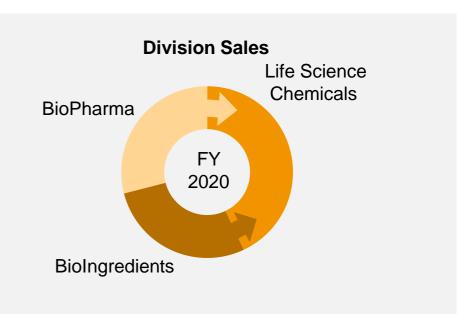


WACKER – BIOSOLUTIONS

WACKER BIOSOLUTIONS At a Glance

Accelerated Growth in BioPharma & BioIngredients





Leveraging Biotechnologies for Growth; Focus on Efficiency & Cash in Life Science Chemicals

BioPharma

- GMP contract manufacturing of biologics, vaccines, live microbials, mRNA, pDNA
- Efficient & cost saving microbial technologies

BioIngredients

- Nutraceuticals, Cysteine, Cyclodextrins
- Fermentation technologies with high purity & free of animal products

Life Science Chemicals

- Food-grade polyvinyl acetate for gum base
- Advanced Intermediates:
 Acetylacetone, organosilanes & fine chemicals

WACKER BIOSOLUTIONS: BioPharma WACKER is a Leading Microbial CDMO

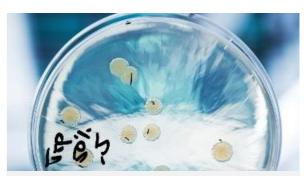
Cutting-Edge Technologies with a Proven Track Record in a Fast-Growing Market

Fast-Growing Market

Outsourcing on the Rise



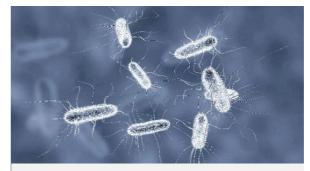
Secretion Technology



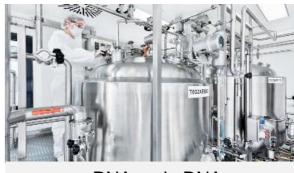
Refolding Technology

Strong Track Record

Cutting-Edge Technologies

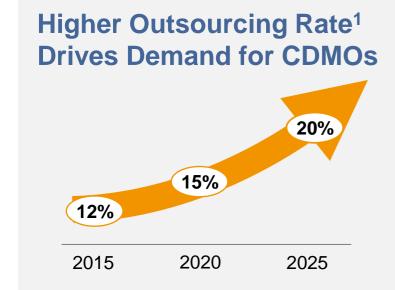


Live Microbial Products



mRNA and pDNA

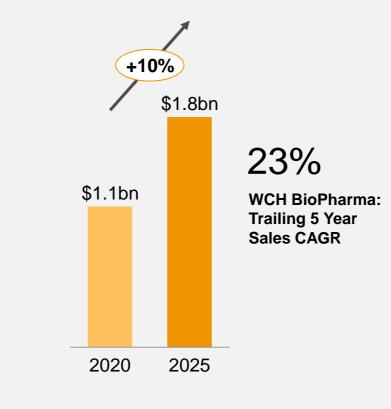
WACKER BIOSOLUTIONS: BioPharma Drivers for CDMO Business



Outsourcing is a tool for Big Pharma and Biotech alike to:

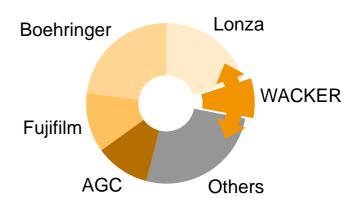
- Leverage advanced production technologies with high expertise
- Reduced risk & operational expenses

Microbial CDMO Market²



 WACKER is committed to meet the industry's growing needs

#5 in a Fragmented Market



- Committed to grow faster than the market by capitalizing on organic & inorganic opportunities
- Leverage our innovative technology, flexibility and global set-up

Source: 1) Frost & Sullivan 2) Biopharmaceutical Contract Manufacturing 2020



WACKER BIOSOLUTIONS: BioPharma Full-Service CDMO of Biologics with Cutting-Edge Technologies



Supporting Customers with Leading Microbial Tech, Global Set-Up & Flexible Scale Production

Development

- Cutting-edge patented technologies
- ▶ Flexible and integrated solutions

Manufacturing

- Flexible scale production supporting Virtual Biotech to Big Pharma
- ▶ Supply from clinical to commercial
- Low COGS & high yields

Track Record

- >1,100 GMP batches released
- >200 projects successfully completed

WACKER BIOSOLUTIONS: BioPharma Leading Technologies for the Production of Biopharmaceuticals

ESETEC®

- Unique manufacturing technology, with exceptionally high quality & flexibility
- No cell disruption needed, high yields & lower COGS



LIBATEC®

- Live microorganisms with therapeutic or preventive effects
- Development of scalable & fully closed mono-septic production processes



- Manufacturing without any antibiotics and phage-free plasmid maintenance system
- Reduced COGS with efficient refolding

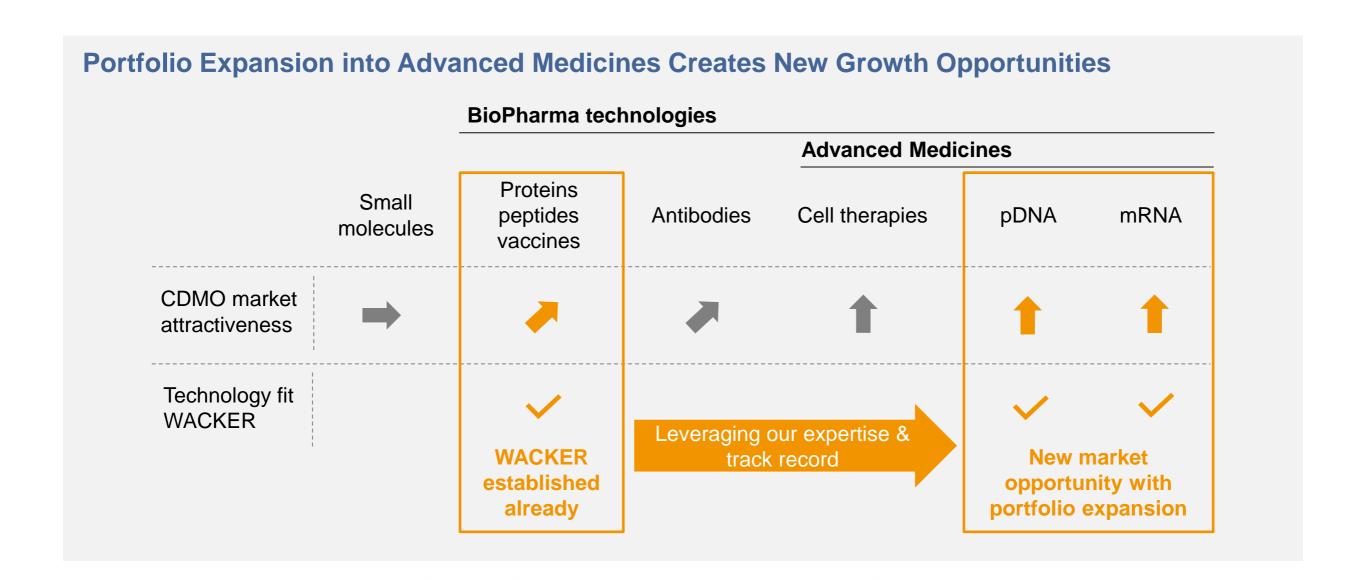


mRNA and pDNA manufacturing platforms

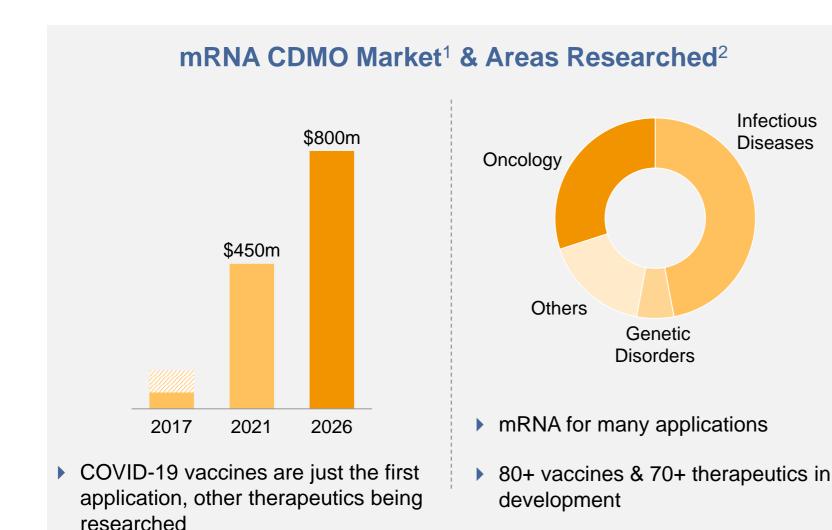
- mRNA brand new production lines, ready to meet growing demand
- Proprietary continuous lysis platform for large-scale manufacturing of pDNA



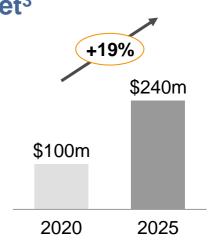
WACKER BIOSOLUTIONS: BioPharma Establish WACKER as a Leading mRNA & pDNA CDMO



WACKER BIOSOLUTIONS: BioPharma mRNA/pDNA Technologies Enable Advanced Therapies for Multiple Indications



Fast Growing pDNA CDMO Market³



- Recent acquisition provides technology & large scale full GMP manufacturing of pDNA in the US
- pDNA raw material for mRNA and for viral vector production

Source: 1) imarc Study 2020 & WACKER estimates 2) Roots mRNA Study 2020 3) Global Viral Vectors and Plasmid DNA Manufacturing Market Research Report



WACKER BIOSOLUTIONS: BioPharma Creating a Leading Player with Strategic Acquisitions & Follow-On Investments

Global Set-Up with Cutting-Edge Technologies

2005	2008	2010	2014	2017	2018-21	2021	
Jena: <i>ProThera a</i> cquisition	Jena : New lab & warehouse	Jena: Extension of production	Halle: Scil Proteins acquisition & extension	Halle: Construction & modification	Amsterdam: SynCo acquisition & investment in mRNA	San Diego: Acquisition of Genopis	



Jena

- ▶ 350 L line
- Rec. proteins
- Cell banking
- EMA approved



Halle

- ▶ 1,500 L line
- Rec. proteins
- EMA & FDA approved



Amsterdam

- ▶ 250 SUB¹ & 1,500 L line
- Live microbials, mRNA, proteins, vaccines
- ▶ EMA & FDA approved



San Diego

- ▶ 500 L line
- ▶ pDNA
- QC/QA for pDNA on site
- Small scale SUB
- GMP approved

1) SUB = Single Use Bioreactor



WACKER BIOSOLUTIONS: BioIngredients BioIngredients and Nutraceuticals to Meet Growing Consumer Trends

Fermentation-Based Solutions for a Wide Range of Applications

Healthy Living Trends

Renewable Raw Materials



Antioxidants



Anti-inflammatory

Fermentation Technologies

Broad Range of Applications



Higher Bioavailability



Optimizing Taste

WACKER BIOSOLUTIONS: BioIngredients WACKER is a Leading Supplier of L-Cysteine from Renewable Raw Materials

Broad Range of Applications





- Flavors: savory flavors
- Food: dough softening
- Supplement: infant nutrition
- Personal care: hair treatment & perms
- Pharma: cough medicine, protein refolding & cell culture media

Sustainable Process





- Fermentation process based on renewable raw materials
- 96% less HCl consumption¹ than traditional process
- Highest purity

Free of Animal Products



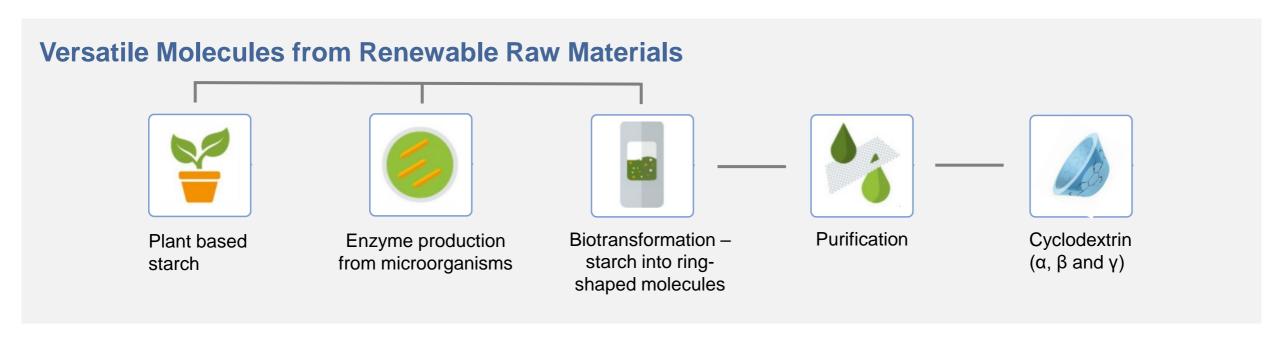




- Vegetarian & vegan
- Kosher & halal
- No allergen labeling required
- Non-GMO

1) HCl = Hydrochloric acid; Source: WACKER Estimate

WACKER BIOSOLUTIONS: BioIngredients WACKER is a Leading Supplier of Cyclodextrins Across Many Applications



Addressing Consumer Trends by Providing Innovative Solutions

Cyclodextrin Capabilities

- World scale production set-up
- Sole producer of three types of cyclodextrins: 6 glucose units (α), 7 glucose units (β) or 8 glucose units (γ)

Benefits & Effects

- Stabilization: whipping and emulsifying
- Solubilization: improved bioavailability
- ▶ Controlled release: protect and carry
- Masking: taste masking

Applications

- Food, dietary supplements
- Pharma, excipients
- ▶ Personal care, pet care
- Household and industry

WACKER BIOSOLUTIONS: BioIngredients Megatrends Driving Activities for Portfolio Expansion & Innovation

Expanding BioIngredients Portfolio Through Innovation & Emerging Applications

End Markets	Market ¹	Trends & WACKER Solutions
Nutraceuticals	7% p.a. ~€500bn	 Healthy living & heart health trend LDL-cholesterol reduction, enhanced muscle recovery
Functional food & Ingredients	6% p.a. ~€80bn	 Vegan & white label trend Meat analogues, flavor masking & natural ingredients
Dietary supplements	8% p.a. ~€130bn	 Aging population trend Increase bioavailability & improve dispersibility

WACKER BIOSOLUTIONS: Life Science Chemicals Profitable Business with Our Ketene Products

Ketene Products Acetic Acid Ketene continuous high temperature process Acetyl Acetone (AcAc) Isopropenyl Acetate (IPA) Automotive Polyethylene Pharma Agro Agro Infrastructure Vitamins **Polymers**

Acetyl acetone Acetyl acetone 3.5-DMP Ca-AcAc¹ Coatings Agro Window frame PV-cable

 Other Metal-AcAc salts for e.g., rubber curing (Co), print applications (Ti), PVC stabilization (Zn)

WACKER BIOSOLUTIONS Leveraging Technologies for Biotechnology-Based Growth

Strategic Focus and Roadmap

Unique Technology Platforms

- Cutting-edge technologies & strong scientific background
- Microbial technologies with exceptionally high quality, flexibility & low COGS



Customer Focus

- Strong global track record: pre-clinical to commercial manufacturing in BioPharma
- Leveraging our know-how, experience & assets to service customer



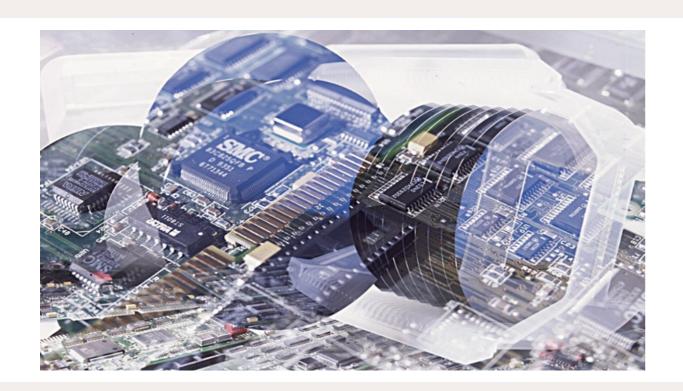
Commitment to Growth

- Continuous investments in innovation, growth and M&A
- New Target: €1bn Sales in BIOSOLUTIONS with >25% EBITDA by 2030





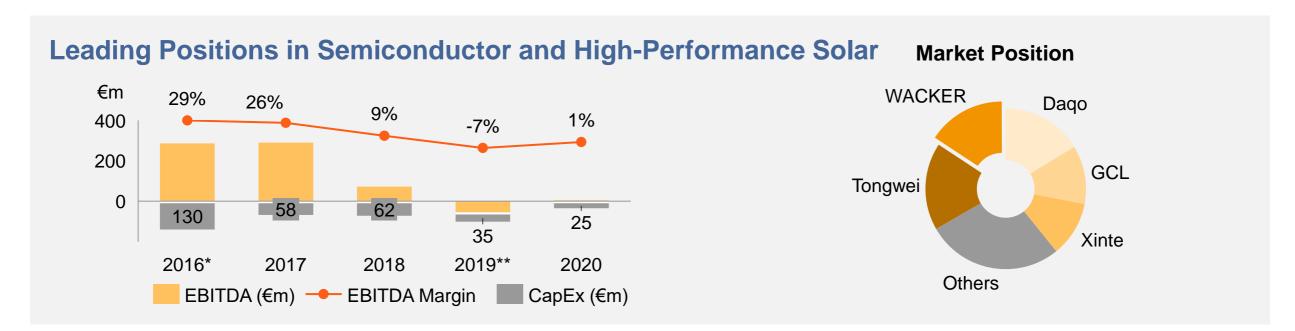






WACKER - POLYSILICON

WACKER POLYSILICON At a Glance



Drivers for POLYSILICON

Mix Shift Towards Semi

- Leader in quality, quantity and cost
- ▶ Benchmark in process stability
- Supporting market growth from plants in Europe and US

High-Performance Solar

- Strong demand for high-efficiency Solar applications
- Solar is lowest cost and most scalable form of energy production

Cost Roadmap

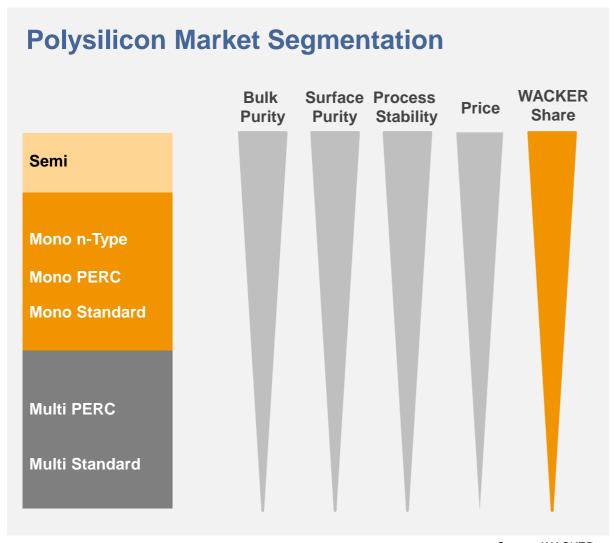
- Reducing energy usage
- Optimizing resource efficiency
- Improving labor productivity

*Operating EBITDA Margin **EBITDA excl. insurance compensation of €112.5m from 2017 incident in Charleston



WACKER POLYSILICON

Benchmark Quality in Semiconductor and High-Efficiency Solar



Various Chip Sizes for Optimized Crucible Filling and Recharging









Source: WACKER

WACKER POLYSILICON Nearly Half of all Computer Microchips Contain WACKER Polysilicon

Semiconductor Applications

Mobility

Digitalization





Connectivity

Automatization

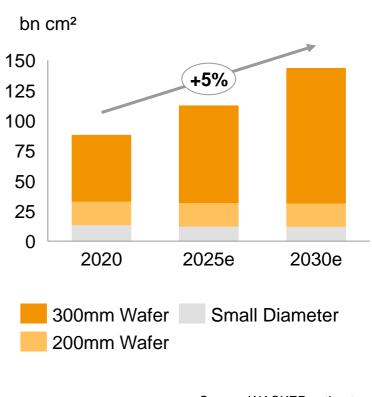




Clear #1 in Semiconductors

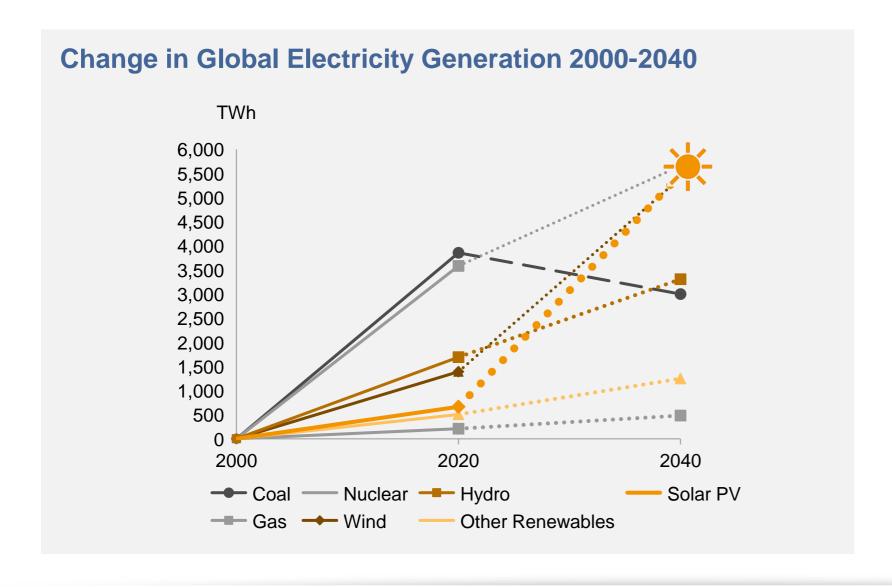
- WACKER polysilicon required for growing semi segments
- Clear leader in quality, quantity and cost
- Only producer offering the full portfolio from clean handled to FZ
- Highly dedicated to semiconductor customers

Growth Driven by Demanding 300mm wafers



Source: WACKER estimates

WACKER POLYSILICON Low Cost CO₂-free Power with Polysilicon for Photovoltaics



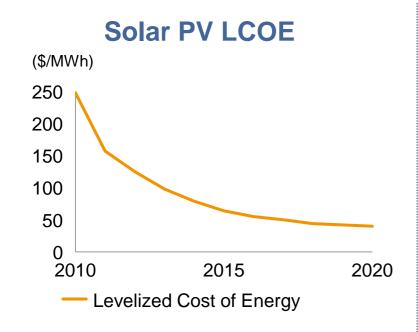
Market Drivers

- PV is the fastest growing source of new power generation globally
- Market shifts from subsidy driven to competitive pricing
- WACKER polysilicon
 - enables highest efficiency PV systems with benchmark LCOE
 - is a sustainable key component with very low CO₂-Footprint for PV applications

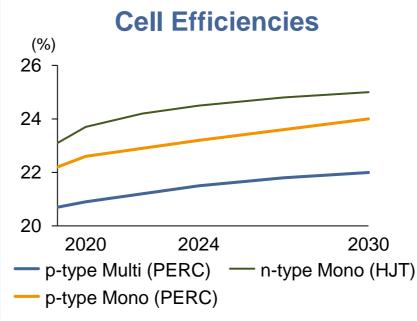
Source: IEA Energy Outlook 2020, Stated Policies Scenario



WACKER POLYSILICON Highest Quality Polysilicon Required For High Performance PV Solar



- Solar is lowest cost and most scalable form of energy production
- Market shifts from subsidy driven to competitive pricing



- Improvements (e.g. passivating layer) allow increases of efficiencies in all technologies
- New technologies (mono n-type HJT) show highest efficiency potential



- Shift to highest efficiency modules accelerates
- WACKER material is a key enabler to our customer's processes

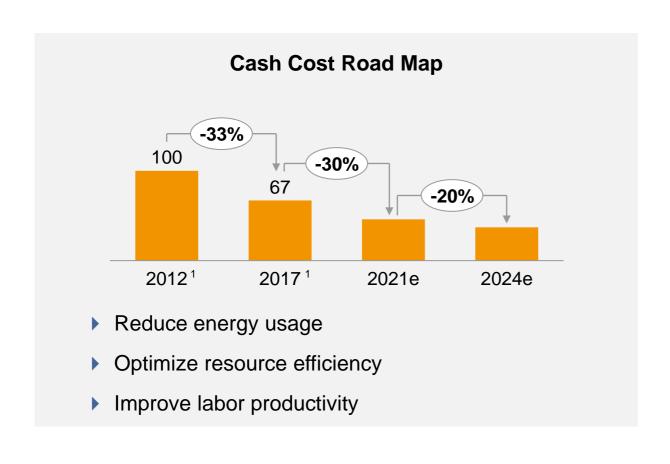
Source: LCOE Analysis, v.13, Lazard

*HJT = Heterojunction technology; Source: ITRPV Roadmap, 12th edition, 2021



WACKER POLYSILICON Aggressive Cost Reductions at All Sites

Sustainable Production & Continuously Improving CO₂-Footprint





Source: WACKER 1) without Tennessee

WACKER POLYSILICON Targeting High Performance Products at Low Costs

Strategic Focus and Roadmap

Operational Excellence

- Continuous cost reductions at all sites
- ▶ Sustainable production with low CO₂ footprint



Serving High-End Markets

- ▶ Focus on semiconductors and high performance solar
- Cost and quality leader in high quality polysilicon



Fully Invested

- Leveraging our assets
- Semiconductor grade polysilicon in Europe and US





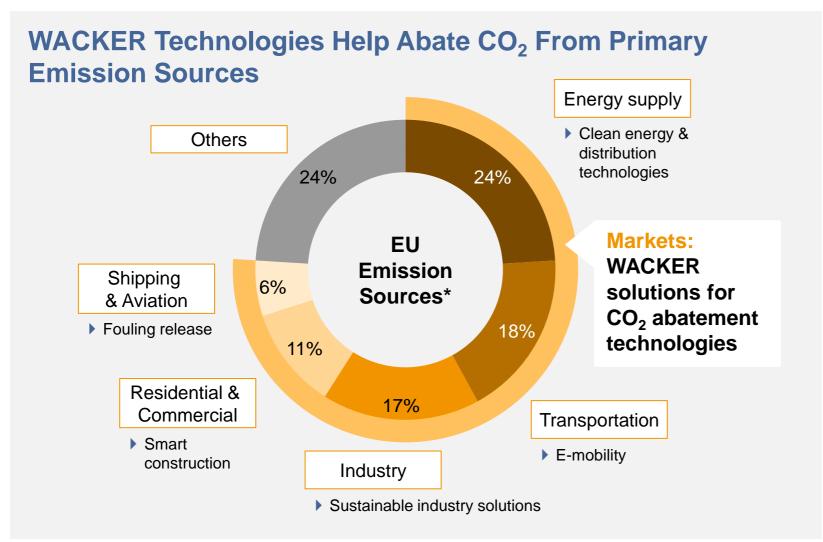






WACKER - SUSTAINABILITY

WACKER SUSTAINABILITY Global Climate Targets Act as a Catalyst for CO₂ Reduction Technologies



Global Policy Update

- China Net Zero by 2060
 - 2,500 GW PV solar & 2,400 GW wind needed**
- ▶ EU Climate Neutral 2050
 - Double renovation rates
- US Net Zero by 2050, 50% reduction by 2030
- Japan Net Zero by 2050



^{*} Eurostat 2017 **China 2050-Fully Developed Rich Zero-Carbon Economy

WACKER SUSTAINABILITY Group Target: Focus Strongly on Sustainability

Our Comprehensive 3-Tiered Approach to Sustainability



Value UP

Enable our customers to provide more sustainable solutions



Footprint DOWN

Create efficient operations & use resources responsibly



Collaboration BEYOND

Strive for a more sustainable value chain

Actively Supporting Global ESG Initiatives and Receiving Highest Recognition

Voluntary Global Initiatives

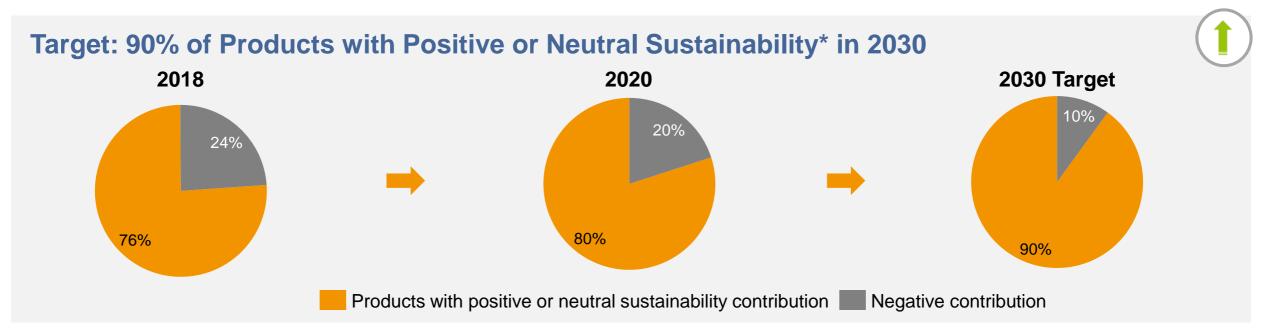
- ▶ UN Global Compact
- ▶ Responsible Care
- ▶ Together for Sustainability

Carbon Transparency

▶ CDP "B" in Climate Change and "B" in Water Security in 2020 **ESG**

- Oekom "B- Prime" 2021
- ▶ Ecovadis "Platinum" 2020
- ▶ MSCI "BB" Rating 2020

WACKER SUSTAINABILITY Systematically Improving Sustainability of Product Portfolio



Pioneering Innovative Sustainable Chemical Products, Polysilicon Best-in-Class

SILICONES

- Insulation & Sealing
- ► E-mobility (gap filler)
- Advanced processing aids
- ▶ BELSIL® eco silicones produced with bio-methanol

POLYMERS

- Enabling substitution of energy intensive materials (cement)
- ▶ VINNAPAS® Eco polymers with bio-AcOH
- NEXIVA® for powdered paint formulations without biocides

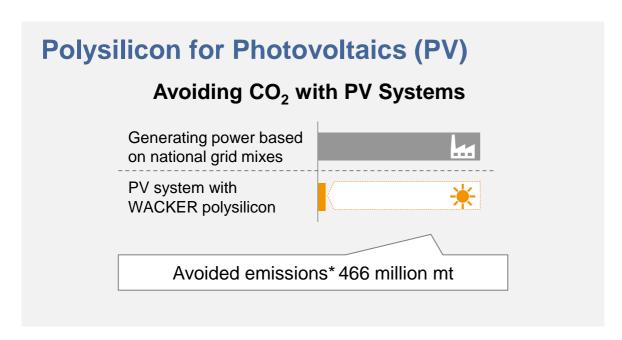
POLYSILICON

- Enabling highest efficiency PV systems
- Hyperpure polysilicon for semiconductors

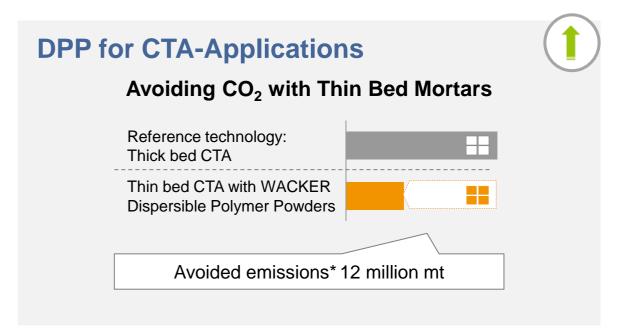
*Portfolio-assessment (WACKER Sustainable Solutions) using PARC-model (One Product in one Application in one Region in Combination)



WACKER SUSTAINABILITY Enabling Leading CO₂ Abatement Technologies



- WACKER polysilicon is a key enabler of highest efficiency PV solar systems
- Significant CO₂ emissions avoided by harnessing the sun's energy compared to burning fossil fuels
- Amount of energy required to produce PV system with a 30-year lifetime is generated in the 1st year of production

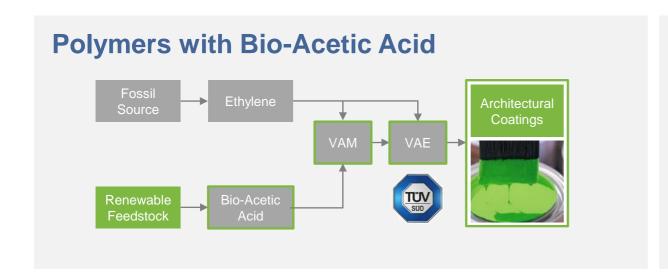


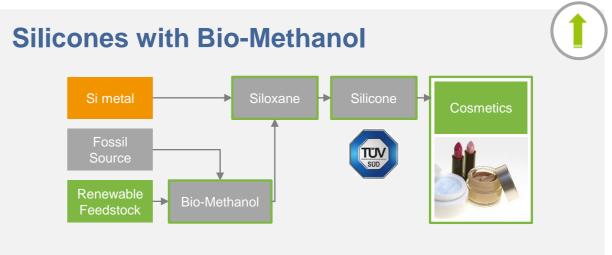
- VINNAPAS® DPP enables thin bed mortars for Ceramic Tile Adhesives (CTA)
- >60% less sand & cement is needed with thin bed CTA
- With the thin bed CTA, CO₂ emissions of up to 80% are avoided

*using the amount produced by WACKER in 2017



WACKER SUSTAINABILITY Coatings and Cosmetics Based on Renewable Raws





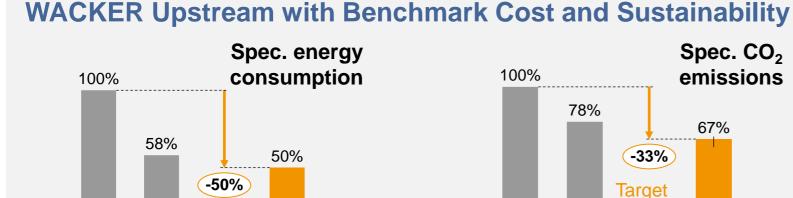
VINNAPAS® Eco

- Performance identical to non-biomass based
- No reformulation necessary
- Bio-acetic acid feedstock: cellulose, no competition to food
- Renewable content available at 60% and 100% based on solids

BELSIL® Eco

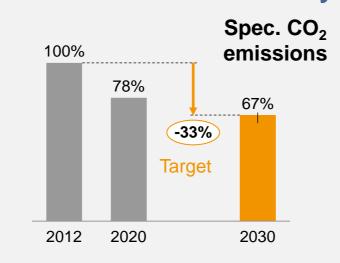
- Same properties as fossil-based products
- Drop-in-solution for customers
- Bio-methanol feedstock: grass, straw, sugar beets
- ▶ 100% fossil free cosmetic products

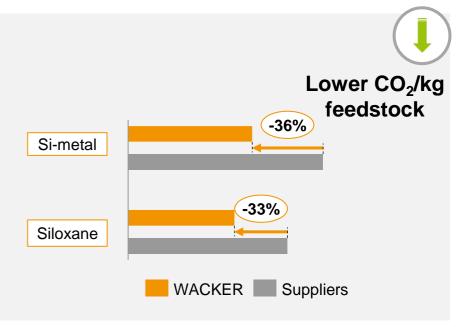
WACKER SUSTAINABILITY Reducing Emissions and Improving Process Efficiency



Target

2030





Continuous Improvement in Efficiency and Emissions

Track Record

2020

2007

- ▶ WOS* 1.0-3.0 -Specific targets & Six Sigma
- ▶ POLYSII ICON: Benchmark quality and significantly lower CO₂/kg than competitors

Current Measures

- ▶ WOS 4.0 Cost road maps and Digitalization
- Process stability and optimization
- Energy efficiency

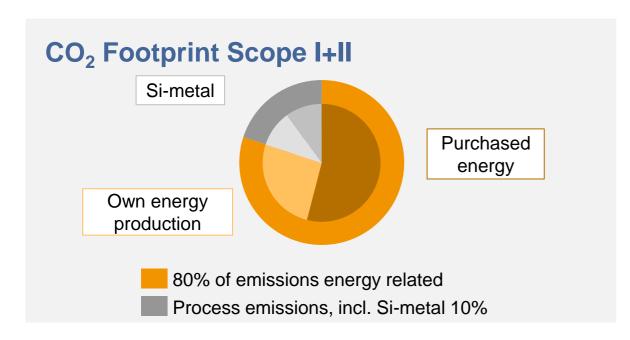
Future Measures

- Carbon capture
- Low-emission Si-metal
- Fossil-free steam generation
- H₂ economy: Power-to-Chemicals

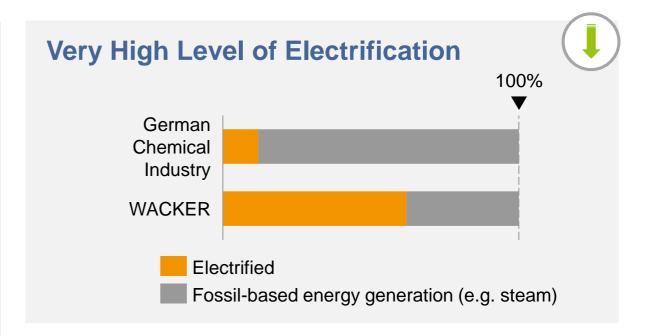
*WOS = WACKER Operating System



WACKER SUSTAINABILITY High Electrification Enables the Path to Carbon Neutrality



- Scope I emissions (ETS) of ~1m tons p.a. rise primarily from CHP¹ and process emissions
- Own energy production with about 20% less CO₂ emissions than overall German grid mix
- Scope II emissions are set to decrease as the energy transition in Germany continues



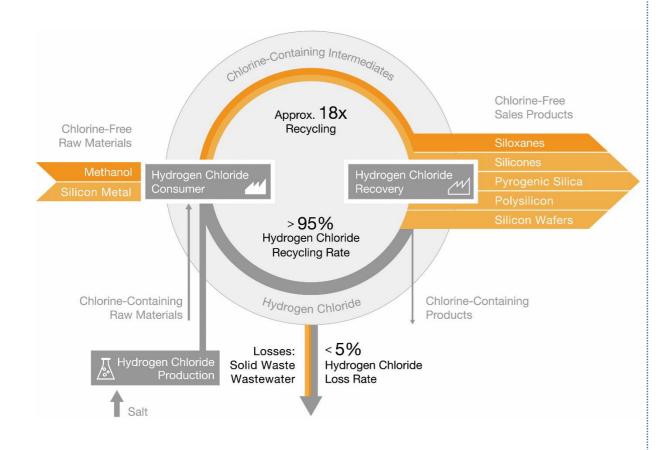
- WACKER is in an outstanding position to become one of the first chemical companies in Germany to achieve carbon-neutral production
- Fossil-free steam generation technically possible

1) CHP = Combined Heat and Power Plants



WACKER SUSTAINABILITY Integrated Production Helps Avoid CO₂ Emissions

Hydrogen Chloride System



Very High Recycling Rates



 Integrated production at Burghausen prevents about 1 million metric tons of CO₂eq¹ emissions annually

Closed Loops Reduce Waste

Byproducts and waste heat are fed back into production via highly complex material and energy loops

1) CO₂eq=CO₂ equivalent



WACKER SUSTAINABILITY Striving for a More Sustainable Value Chain



WACKER is a Leader in Sustainable Procurement

TfS

- Together for Sustainability, a standardized, global program
- Supplier evaluations shared between members
- ▶ 14,000 suppliers audited

WACKER

Target: 90% of key suppliers with positive sustainability contribution by 2030

Ecovadis

Platinum: WACKER ranked top 1% of companies in the basic chemicals sector in 2020

WACKER SUSTAINABILITY Extending Our Sustainability Aspirations Beyond 2030

Our Vision for 2050

Value Up

- Sustainable solutions
- ▶ 100% of products with neutral or positive sustainability contribution



Footprint Down

- WACKER is the industry benchmark
- Continued improvements to CO₂ neutrality



Collaboration Beyond

▶ 100% of suppliers with positive sustainability contribution











WACKER – FINANCIALS

WACKER FINANCIALS Group Key Figures

In €m / %	2020	2019	2018	2017
Sales	4,692	4,928	4,979	4,924
EBITDA	666	783	930	1,014
EBITDA margin	14.2%	15.9%	18.7%	20.6%
EBIT	263	-536	390	424
EBIT margin	5.6%	-10.9%	7.8%	8.6%
Net income for the period	202	-630	260	885
- From continuing operations	202	-630	260	250
- From discontinued operations	-	-	-	635
Net cash flow	698	184	86	358
Return on capital employed	5.6%	-11.3%	5.9%	7.5%
EPS in €	3.81	-12.94	4.95	17.45
Dividend per share	2.00	0.50	2.50	4.50
Dividend yield	2.9%	0.7%	2.1%	4.0%

WACKER FINANCIALS Segment Key Figures

	2020		2019		2018			2017				
In €m / %	SALES	EBITDA	EBITDA MARGIN	SALES	EBITDA	EBITDA MARGIN	SALES	EBITDA	EBITDA MARGIN	SALES	EBITDA	EBITDA MARGIN
Chemicals	3,789	696	18.4%	4,011	704	17.5%	4,009	788	19.7%	3,651	688	18.8%
SILICONES	2,244	388	17.3%	2,453	479	19.5%	2,500	617	24.7%	2,200	445	20.2%
POLYMERS	1,299	271	20.8%	1,315	194	14.8%	1,282	148	11.5%	1,245	206	16.5%
BIOSOLUTIONS	246	38	15.5%	243	31	12.8%	227	24	10.4%	206	38	18.2%
POLYSILICON	792	5	0.6%	780	57 ²	7.3%	824	72	8.8%	1,124	290	25.8%
Others	128	-35	-27.6%	158	22	14.2%	171	71	41.4%	169	33	19.3%
Consolidation	-17	1	-3.0%	-21	0	-1.4%	-24	-1	-	-20	3	-
WACKER Group	4,692	666 ¹	14.2%	4,928	783 ²	15.9%	4,979	930	18.7%	4,924	1,014	20.6%

¹⁾ incl. "Shape the future" restructuring provision of ~€50m ²⁾ incl. insurance compensation of €112.5m from 2017 incident in Charleston



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Deutsche Börse WCH

Publications









CUSTOMER MAGAZINE

ANNUAL REPORT

SUSTAINABILITY REPORT

SQUARE APP