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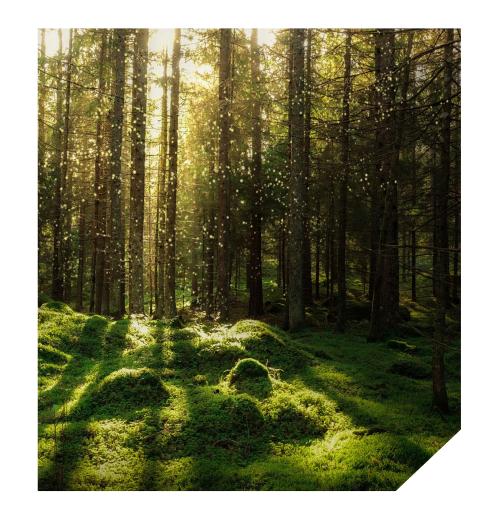
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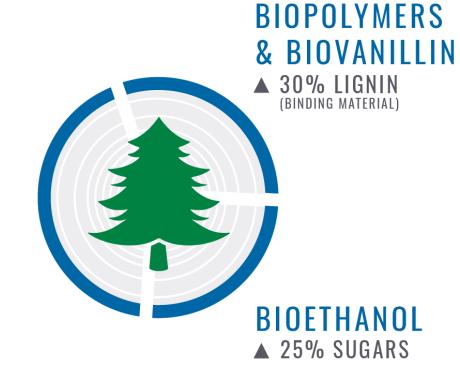


Borregaard is a global leader in biochemicals

High value added through full raw material utilisation Borregaard's biochemicals are sustainable and environmentally friendly substitutes for petrochemicals

SPECIALITY
CELLULOSE
& CELLULOSE
FIBRILS

45% FIBRES





Operates one of the world's most advanced biorefineries

Integration models:

Own integrated
Partner integrated
Independent

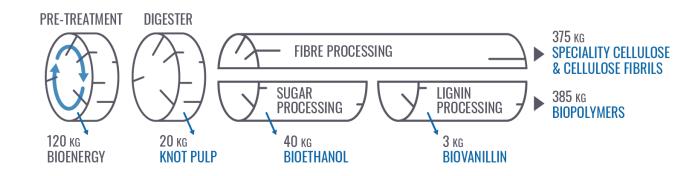
Integrated production system serving diverse markets

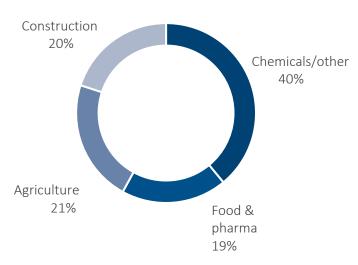
End markets 2023





94% UTILISATION





SPECIALITY CELLULOSE

Construction
Filters
Inks and coatings
Casings
Food/pharma/personal care

CELLULOSE FIBRILS

Adhesives
Coatings
Agriculture
Personal care
Home care
Construction

BIOPOLYMERS

Construction
Animal feed pellets
Batteries
Briquetting
Crop protection
Plant nutrition

BIOVANILLIN

Food and beverages Fragrances Personal care and cosmetics Pharmaceuticals Agrochemicals

BIOETHANOL

Biofuel
Disinfectants
Pharmaceutical industry
Home and personal care products
Paints and coatings
Car care



Textiles

Global niche player with a market driven organisation



BioSolutions (55%¹)

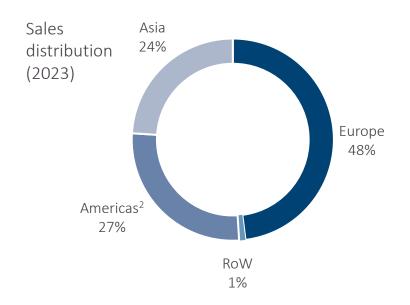
Largest supplier, technology leader in lignin-based biopolymers with global markets, only producer of wood-based vanillin

BioMaterials (34%¹)

Leading global speciality cellulose supplier, pioneer in cellulose fibrils

Fine Chemicals (11%¹)

Leading producer of fine chemical intermediates for contrast agents, significant producer of 2nd generation bioethanol



Market driven organisation

- ~111 FTEs strong sales/technical service organisation
- Dedicated sales force for each business unit
- ~90% of sales handled through own organisation



¹⁾ Segment revenue as a % of sales revenue 2023

²⁾ USA/Canada 21%, rest of Americas 6%

The specialisation strategy

The Borregaard specialisation strategy



Specialisation in global niches

- Markets with high barriers to entry
- Leading market positions through application knowledge and proximity to markets
- Diversified market strategy and global market positions secure maximum flexibility



Strong innovation efforts and continuous improvement

- Business driven innovation model that involves the entire organisation
- Continuous productivity improvement through more efficient organisation, competence development and smart use of technology



Competence as the main competitive advantage

- Competence differentiates
 Borregaard from the competitors
- Combination of competences in sales & marketing, R&D and production
- Leverage expert knowledge to grow organically and through acquisitions

Culture – market-oriented, innovative and change-oriented

Sustainability – key decision criterion to innovation and new initiatives



The Borregaard Way – sustainability, long term perspective and integrity



Key strategic considerations



Increasing momentum for bio-based products

Consumer and investor attention drives demand for greener solutions

- EU Green Deal and Taxonomy
- Science Based Targets initiative's Business Ambition for 1.5°C campaign
- Environmental investments strengthen competitive edge

Specialisation and value growth will take priority

Significant potential for upgrade of product portfolios in *BioSolutions* and *Speciality Cellulose*

Cellulose fibrils represent a captive use of speciality cellulose with high value added

Explore expansion and debottlenecking opportunities at Sarpsborg biorefinery

Further development of the Sarpsborg biorefinery is a low-risk investment and raises barriers to entry

Considerable potential for further specialisation and value growth

- Portfolio of 800 products with multiple applications in many markets
- The Borregaard specialisation journey is a continuous process towards full specialisation

Unique combination of high-value raw material base, biorefinery assets and expert knowledge



Strategic priorities

Increased specialisation and value growth

- Specialisation through innovation and market development
- Leverage high-value lignin raw material base in biopolymers and biovanillin
- Enhance product mix in speciality cellulose
- Development of the cellulose fibrils business
- Targeted investments to support increased specialisation, capacity needs and new initiatives

Sustainability as a value driver

- Exploit full market potential of biochemicals product portfolio
- Delivery of environmental targets strengthens competitive edge
- Sustainability a key decision criterion in relation to innovation and new initiatives





Borregaard actively seeking to invest in bio-based start-ups

Selection criteria

- Conversion of biobased raw materials to chemicals/materials
- Strong ESG/sustainability profile
- Specialisation potential
- Synergies with Borregaard's existing business/competence
- Significant revenue potential (10-100 mEUR)
- Time to market < 5 years





Investments in bio-based start-ups

About the company

Borregaard's engagement in the company



Harvesting and biorefining of macroalgae to ingredients for pharmaceutical and nutraceutical applications (*Norway*)

- 35% ownership fully diluted
- Total investment ≈268 mNOK



Biorefining of spent coffee grounds to ingredients within personal care, human nutrition and agriculture (*Denmark*)

- 12% ownership fully diluted with 3 mEUR investment
- Option to increase ownership to 34% by January 2026 with additional 9.25 mEUR investment



Processing of technical lignins from biorefineries for use in personal care as well as industrial applications (*Austria*)

- 12% ownership
- Total investment 1 mEUR



Biorefining of farmed macroalgae to ingredients within food, health & wellness, skincare and materials (*Scotland*)

- 1% ownership
- Total investment 0.15 mUSD



Sustainability – integral part of market offering

RAW MATERIALS



Natural, renewable, sustainable raw materials

Sustainable and certified wood

- Documentation
- PEFC¹⁾ and FSC¹⁾ standards
- Lignin raw materials from certified or controlled forests
- Non-GMO raw material

PROCESSES



Efficient and sustainable production and value chain

Reduced emissions improve LCA²⁾

- Target based CO₂ reductions
 - Energy conservations
 - New/green energy sources
- Reduced emissions to water and air
- "Greener" logistical solutions

PRODUCTS



Sustainable biochemicals

Products add sustainability value to customers

- Climate: LCA²⁾ shows favourable GHG footprint
- Biobased: Natural raw materials preferred
- EHS³⁾: Non-toxic, harmless products

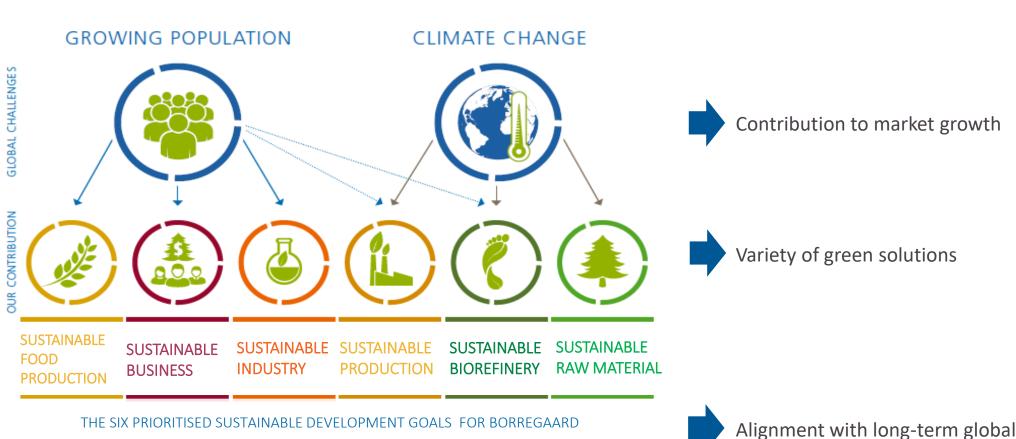


¹⁾ PEFC: Programme for the Endorsement of Forest Certification, FSC: Forest Stewardship Council

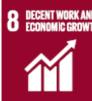
²⁾ Life Cycle Analysis

³⁾ Environment, Health and Safety

Alignment with UN's Sustainable Development Goals





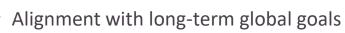














Climate change and the environment – targets and ratings



We're on the A List for our commitment to environmental transparency.

Science Based Targets for GHG emissions

Approved by Science Based Targets initiative in 2022

Targeted reductions in GHG emissions (scope 1 and 2):

- o 42% absolute reduction by 2030 (base year = 2020)
- o Net-zero target, 90% absolute reduction by 2050
- Targets in line with 1.5°C goal in Paris Agreement and Norwegian Climate Law

Highlighted as a global leader in corporate climate action by CDP

Top 25 out of 21,000 companies scored

- A within Climate Change (6 years in a row)
- A within Water security
- A- within Forest

Gold status in EcoVadis Supply Chain

Top 5% of 115,000 reporting companies





Research & development

- ~16% of Borregaard's revenues come from new products¹⁾
- Innovation Management Teams
- ~100 employees in R&D of which 73 at the research centre in Sarpsborg 28 have a PhD
- R&D and innovation spending 3.0% of revenues in 2023²⁾
- IP strategies for each BU and major innovation projects



Cellulose Fibrils: Exilva microfibrillar cellulose



Continuous specialisation and improved products



¹⁾ Sales of new products and applications introduced during the previous five years (2023)

²⁾ Includes R&D centres, operation of BALI/Exilva pilots and market/application innovations

Business driven innovation model

Ideas from sales, technical application, R&D, production, external partners

IMT

- Chaired by head of business unit
- Cross functional team of line managers
- Gatekeepers at important milestones

Idea database Innovation Management Teams (IMT) Inter disciplinary development work Scale-up and commercialisation

Co-work with (when required):

- Universities
- Research institutes
- Consultants

Co-work with (when possible):

Customers



BioSolutions

Market position

- Largest supplier of lignin
- Only supplier of wood based vanillin
- Unique technical and application expertise

Production

• Norway, USA, Germany, Czech Republic, UK

Applications

- Concrete admixtures
- Gypsum board
- Ceramics
- Animal feed
- Crop protection
- Plant nutrition
- Oilfield chemicals
- Batteries
- Flavours & fragrances
- Personal care and pharmaceuticals

Key attractions

- A sustainable and broad product portfolio
- Large and diverse customer base
- High barriers to entry





Biopolymers: Lignin – a sustainable and flexible raw material

Product performance depends on the pulping process and the raw material

Sulphite pulping process

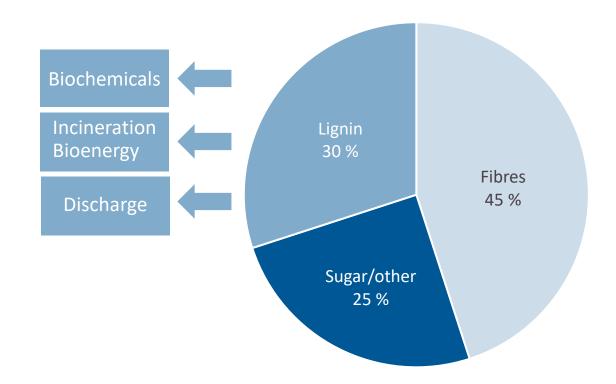
- Versatile lignin used in a variety of products/applications
- Quality depends on the chemicals base
- Water soluble
- Limited number of sulphite mills

Softwood (pine/spruce) vs hardwood and straw

• Softwood lignin has superior modification potential

Kraft (sulfate) pulping process

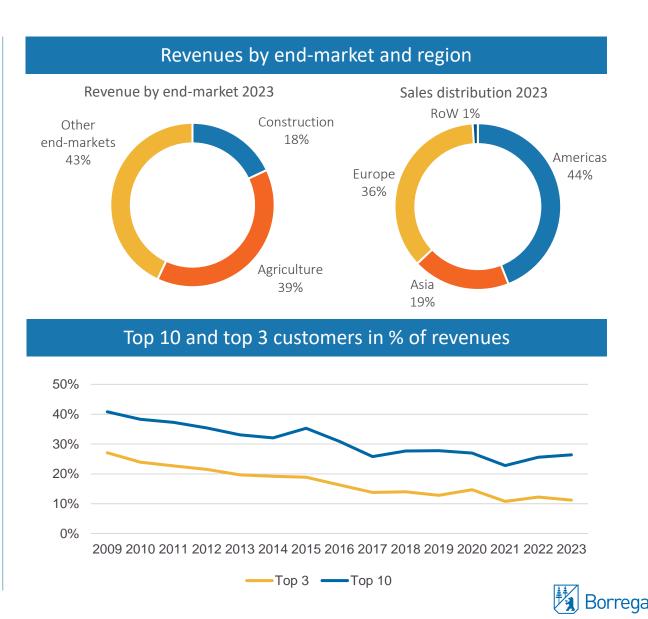
- Lignin is normally incinerated to recover energy and chemicals
- Not in water soluble form from the pulp mill
- Pulp producers are exploring potential for industrial use of kraft lignin



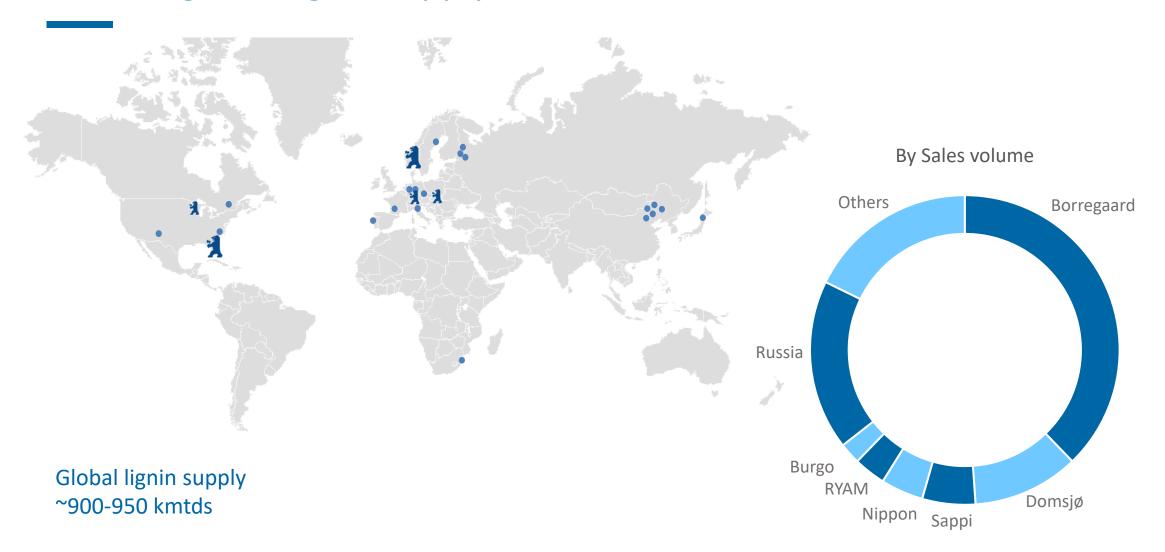


Diversification: 600 products to 2,700 customers

BioSolutions properties and applications Ceramics Binding agent Dust solutions Feed Granulated limestone Carbon black and pigments Dispersing agent/ Concrete admixtures rheology control Dyestuffs Metals and minerals Micronutrients Pesticides and biological pest control Crystal growth Batteries Oilfield chemicals control Water treatment Food Flavours and Fragrances fragrances Personal care Agrochemicals Chemical building Pharmaceuticals blocks Resins Additional Antioxidant Anti-microbial properties Biostimulant Complexing agent Corrosion inhibitor Emulsion stabiliser Soil conditioner UV protection

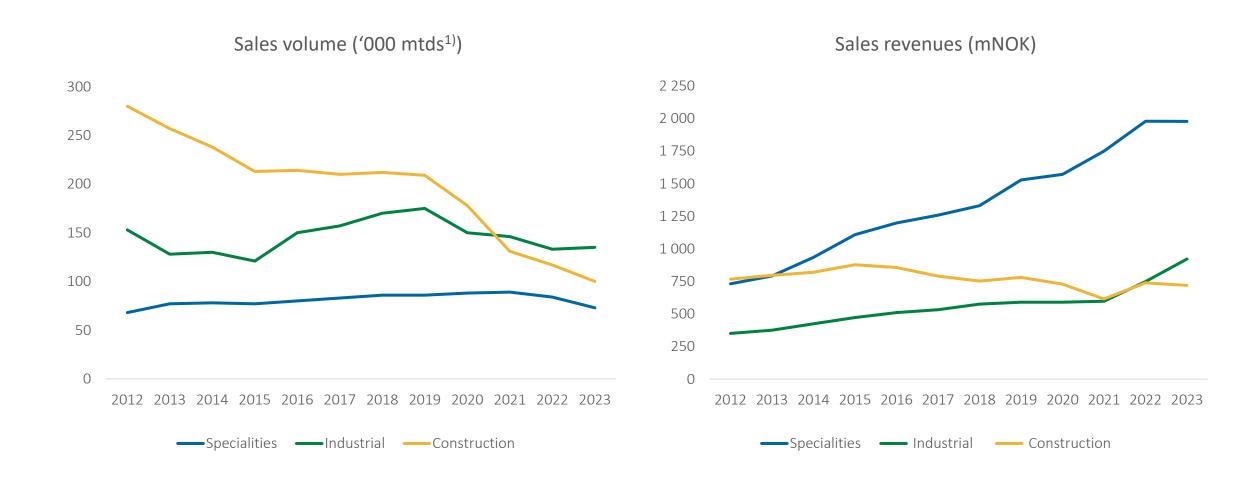


Current global lignin supply





Significant specialisation and value growth over time





Biopolymers in agriculture

Plant nutrition				Crop protection		Seed coating	Feed
Micronutrients	Soil conditioner	Biostimulants	Granulated limestone	Pesticides	Biological pest control	Encrusted and pelleted seeds	Animal feed
Complexing agentReady-to-use micronutrients	Organic carbon source	Nutrient use efficiencyResistance to abiotic stress	BinderDedusting agent	DispersantBinder	DispersantUV protection	Binder	BinderAntioxidant
8.4 % CAGR	5.2 % CAGR	12.1 % CAGR	6.1 % CAGR	2.5 % CAGR	7.0 % CAGR	8.4 % CAGR	3.2 % CAGR



Lignin in lead batteries





Micro-hybrid





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Flooded battery as start battery

Conventional vehicle

Absorbent Glass Mat (AGM) and Enhanced Flooded Battery (EFB) as start/stop battery AGM and EFB as start/stop battery

Hybrid

Flooded battery for hotel function¹⁾

Fuel for motion

Fuel for motion

Fuel/NiMH/lithium ion for motion

Lithium ion for motion











Innovation strategy

Priorities

- Specialisation and value growth
- High-value and advanced applications
- Unique and tailor-made solutions
- Increase value of Florida product portfolio

Competitive edge

- Unique competence base
- Softwood raw material base and advanced technology
- Well documented sustainability profile
- Strong innovation portfolio





Sustainability – a competitive edge offering new opportunities

Supplier of green alternatives to fossil-based products

World leader in sustainable lignin-based biopolymers and biovanillin

Well-documented competitive edge in sustainability

- Life Cycle Assessments (LCA) and Environmental Product Declarations (EPD)
- GHG footprint benchmarks vs fossil-based alternatives
- Wood from certified forests

























Agriculture – suspension concentrates

- Suspension concentrates is the largest and fastest growing segment in liquid crop protection products
- Lignin-based biopolymers traditionally used in granulated products
- Customers' perception of the biopolymer colour prevented use in aqueous formulations despite performance similar to advanced fossil-based dispersants
- Borregaard biopolymer dispersant has 70% lower
 CO₂ footprint compared with fossil-based alternative

Sustainability offering new opportunities

Borregaard's favorable climate footprint enabled new high-value business





Agriculture – suspension concentrates and water dispersible granules

- Novel product range for crop protection
- High performance binders and dispersants for liquid and granulated formulations based on proprietary technology
- Superior performance in formulations with high electrolyte (salt) content
- Improved compatibility with fertilisers in liquid solutions
- Established business with strong pipeline

Sustainability offering new opportunities
Green alternatives to fossil-based products





Vegetable leather tanning

Chrome used in leather tanning since 1800's

Poor environmental profile

Leather tanning industry gradually changing to a greener technology

Returning to vegetable tanning

Sustainability offering new opportunities

Borregaard biopolymers part of the sustainable solution





Textile industry - Pigments and inks

Challenging sustainability profile

Fossil-based dispersants widely used

Industry changing to new and environmentally friendly technologies and dispersants

- Focus on water reduction and green additives
- Growing trend towards digital textile printing

Sustainability offering new opportunities
Borregaard high-quality dyestuff dispersants,
a greener solution for the textile industry





Lead batteries – energy storage systems

Batteries play a crucial role in decarbonisation

- Electrification of the transportation sector
- Energy storage systems (ESS) for renewable energy
 - +200%¹⁾ growth in period 2020-2030

ESS – a growth opportunity for lead batteries

- Need for alternative technologies to Li-ion
- Lead batteries well suited for ESS
 - High degree of safety, low cost, high recycling rate (99%)
- Significant industry efforts to meet ESS requirements for energy density and life

Sustainability offering new opportunities
Borregaard lignin-based expanders

key enabler for lead batteries in ESS





LignoTech Florida





The venture

- Located at Rayonier Advanced Materials' (RYAM) Fernandina Beach softwood sulphite pulp mill
- Borregaard (55%) and RYAM (45%) ownership
- Borregaard's know-how and technology

Expansion project in two phases

- Phase one (2018) represents 100,000 mtds capacity, investment USD 110 mill.
- Phase two will give additional 50,000 mtds, investment estimated at USD 25 mill. in 2016

New plant officially opened 26 June 2018

- Investment completed on time and cost
- Production commenced in June 2018

Commercialisation

- Phase one ramped up to capacity after three years, according to plan
- Diversified product and application portfolio established



Borregaard – the only producer of wood-based vanillin

	Vanilla beans	Plant based vanillin			Oil based vanillin & ethyl vanillin		
	1		JAP .				
Raw material	Beans	Ferulic acid from bran/straw	Eugenol from clove	Lignin from wood	Guaiacol from creosote/tar	Guaiacol (vanillin)	Guethol (ethyl vanillin)
Key selling points	Natural/ flavour profile	Plant based/natural raw material/sustainability /flavour profile				Price	
Sales volume 2023 (mt) ¹⁾	≈2 400 ²⁾	≈1 800				≈17 000	≈6 000
Indicative price level USD/kg ¹⁾	≈50 - 60	≈200 30 - 70			10 - 153)		
# of manufacturers ¹⁾	1 000+	4	5	1	3	3	4
Growth ¹⁾		≈5% ≈2-3%					

¹⁾ Company estimates



²⁾ Cured vanilla pods contain around 1-2% vanillin, corresponding to around 25 – 50 mt on pure vanillin basis

³⁾ Towards the end of 2023, the prices of synthetic and ethyl vanillin dropped below 10 USD/kg due to increased Chinese production

Biovanillin – well positioned for growth

Strong demand growth for bio-based vanillin

- Consumer preferences
- Sustainability

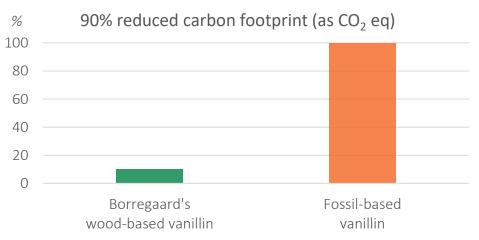
Competitive edge

- Global market leader in bio-based vanillin
- Advanced and attractive flavour profile
- >90% reduced carbon footprint vs fossil-based vanillin
- Certified spruce wood, sustainable forestry
- Cost competitive technology

Outlook

- Capacity expansion well above the +20% target
- Continued gradual introduction
- Significant expansion of fossil-based capacity







Speciality cellulose

Market position

 Strong positions in Europe and Asia within high-end niches

Production

• Sarpsborg, Norway with capacity of 160,000 metric tonne

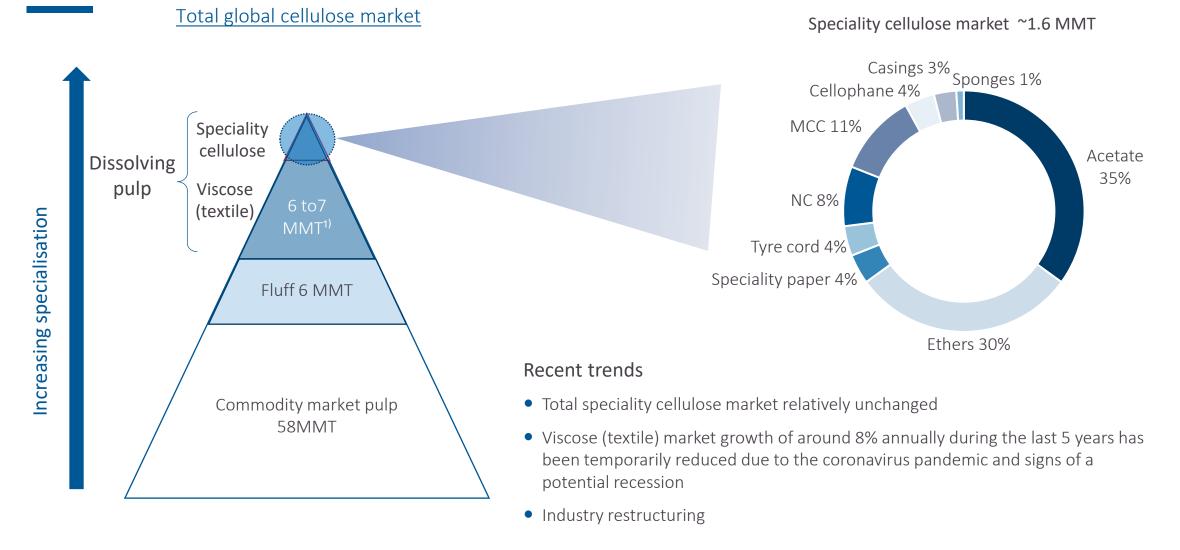
Focused applications	Market growth ¹⁾		
• Ethers	3-4%		
• Acetate	0-2%		
Nitrocellulose	0%		
• Casings	3-4%		



High quality speciality cellulose with strong niche positions

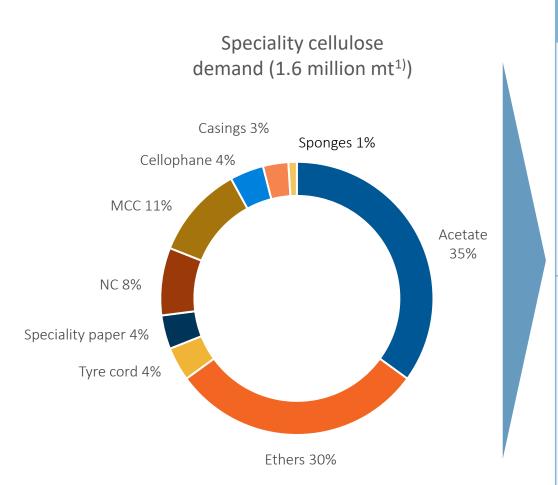


The speciality cellulose market





Speciality cellulose market



	Segments	Applications	Market size '000 mt (2023)	Annual growth 2023-2024
Highly specialised	Acetate	Cigarette filters, plastics, LCD, yarn	550	0-2%
	Ethers ²⁾	Construction, coatings, food, pharma, personal care	480 ³⁾	3-4%
	Speciality paper	Automotive filtration, bank notes	60	1-2%
	Tyre cord	High-performance tyre cords	60	2-3%
	High purity casings and sponges	Sausage casings, sponge cloths	35	0-1%
Other specialities	Nitrocellulose (NC)	Coatings, printing inks, nail varnish, energetic grades	125	0 %
	Microcrystalline cellulose (MCC)	Food, pharma	180	3-4%
	Cellophane	Food packaging	55	0-1%
	Casings	Sausage casings	30	3-4%
	Sponges	Sponge cloths	15	1-2%

Source: Celco market reports, RISI and Borregaard estimates



¹⁾ Metric tonne

²⁾ Cellulose ether capacity excl. technical grade CMC

³⁾ In 2023-2024 capacity utilization is reduced by 20-25% due to lower demand in construction applications

The speciality cellulose industry

The speciality cellulose market is ≈1.6 million tonnes¹⁾

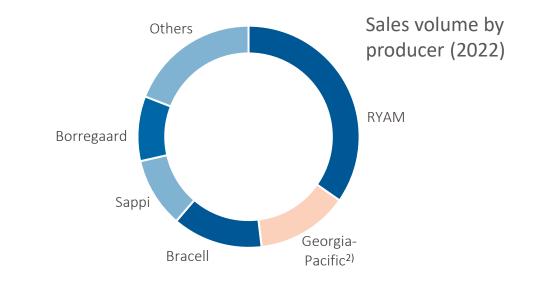
- Top 5 producers have ≈80% market share
- Kraft or sulphite pulping process
- Hardwood and softwood raw material
- Some cotton linter pulp (CLP) producers

Limited volumes from textile cellulose producers

- High barriers to entry
- Mainly targeting acetate, nitrocellulose and casings

Borregaard production capacity is ≈160,000 tonnes

- Softwood and sulphite process
- Strong market positions in high-end niches in Europe and Asia



Top 5 speciality producers by wood species and pulping process

	Hardwood/ kraft	Softwood/ kraft	Hardwood/ sulphite	Softwood/ sulphite
RYAM	✓	✓		✓
Georgia-Pacific ²⁾		✓		
Bracell	✓			
Sappi			✓	
Borregaard				✓

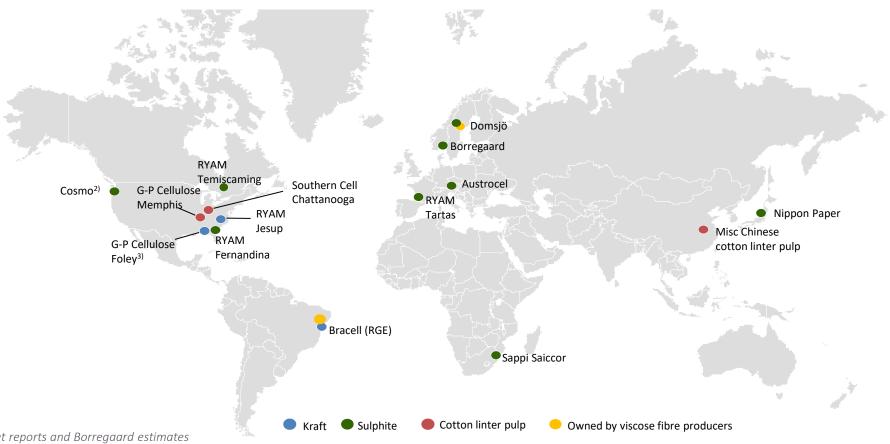


²⁾ Press release September 18, 2023: Georgia-Pacific announces plan to permanently close the Foley facility



Speciality cellulose suppliers

- 12 players supplying 1.6 million mt speciality cellulose¹⁾
- Top players use textile and fluff markets as capacity filler
- Limited volumes from viscose pulp producers into speciality segments due to barriers to entry





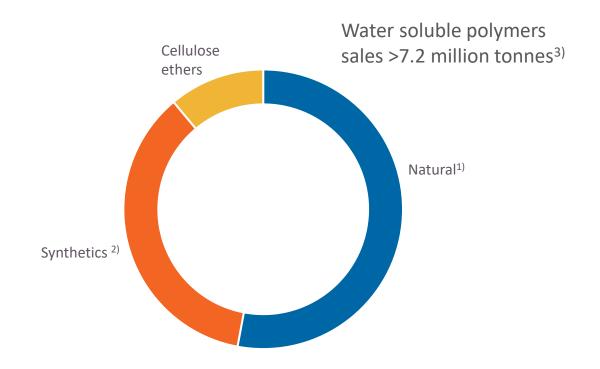
²⁾Currently idle, start up date unknown



³⁾Press release September 18, 2023: Georgia-Pacific announces plan to permanently close the facility

Cellulose ethers – water soluble polymers with high barriers to entry

- The market for water soluble polymers consists of cellulose ethers, natural and synthetic products
- Cellulose ethers have no direct substitutes with comparable multi-functionality
- Mostly used as an additive to modify rheological properties of water-based formulations
- Reformulation and qualification require 1-5 years
- Cellulose ethers differentiated by a price premium based on function and application





¹⁾ Natural = Products extracted and refined from natural sources

²⁾ Synthetic = Products created from petrochemicals

³⁾ Source: Borregaard internal data, IMR International (2021)

Cellulose ethers – solid growth and attractive opportunities

Current demand for cellulose for ethers is 480,000 tonnes

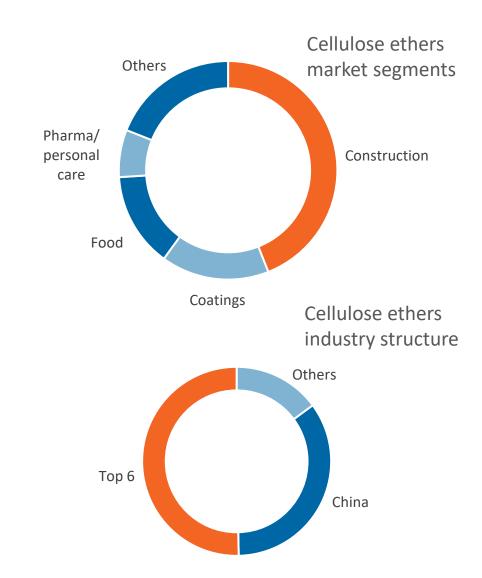
- Projected annual growth 3-4%
- Highest growth in segments requiring high viscosity pulp
- The alternative to wood pulp is cotton linters pulp (CLP) or CLP/fluff pulp blend
- A high degree of differentiation and tailored end products

Requirement for sustainable raw materials increasingly important

- Speciality cellulose from wood has better sustainability profile than CLP
- Increasing demand for sustainability certification and reporting

Top 6 cellulose ether producers represent ≈50 % of global capacity

- Ashland, Dow, IFF, Shin-Etsu, Lotte and Nouryon
- High concentration of producers in Europe and Asia
- New capacity commissioned or under construction in Europe, Asia and USA





Borregaard well positioned for growth and further specialisation

Borregaard position

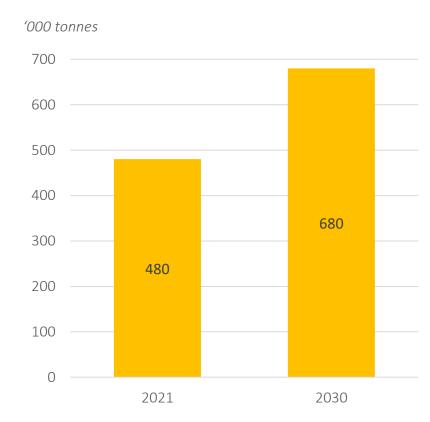
- A major and growing share of Borregaard's cellulose sold to cellulose ethers producers
- Complete portfolio of ether cellulose grades with a high degree of tailor-making
- Most regulated segments require GMO-free raw material which excludes CLP
- Industry leader in sustainability documentation and certification

Borregaard ambition

- Grow with the cellulose ether market
- Continue to innovate and meet future needs of the cellulose ether industry

Borregaard will continue to support the cellulose ether industry

- Develop and debottleneck sustainable production processes further
- Phase out non-core speciality cellulose applications
- An increasing share of ether portfolio to regulated applications (food & pharma)



Projected growth for cellulose for ethers



Ice Bear – continued growth and new applications

Strategic initiative for high purity cellulose in all market segments

- Maintain existing market positions in cellulose acetate
- Enable further specialisation in all target segments

Sustainability trends create opportunities for Ice Bear

- Stricter regulations and issues with fossil-based plastics
- Cellulose acetate plastics are derived from bio-based raw material
- All major cellulose acetate producers focus on non-filter tow end uses
- End products can be tailored for biodegradability
- Joint product development with key customers

Ramp-up based on market demand and customer qualification

- Increasing sales to new speciality applications
- Further growth projected within several speciality applications





Cellulose fibrils

Global leader in micro-/nanofibrils

• Competitors in pilot plant or captive use phase

Large scale plant with 1000 tonnes dry capacity

- Use cellulose as raw material
- Zero emissions

Embryonic but fast-growing market

Product is a network of micro and nano fibrils with large surface area

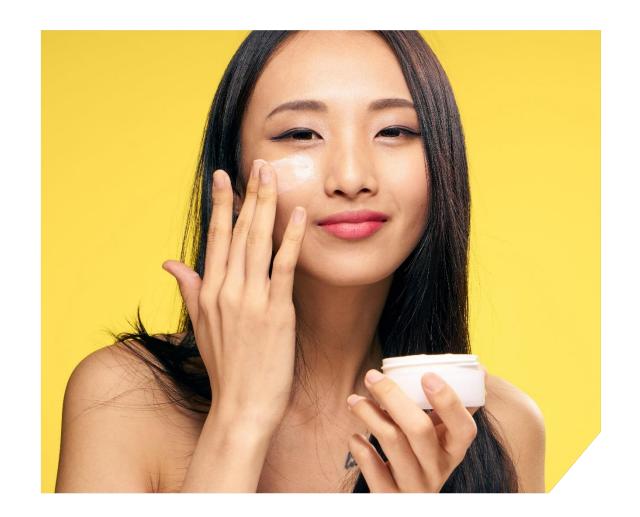
• 1 gram covers a tennis court

Key benefits

- Improve and control flow
- Create a barrier or a film

More than 30 application areas

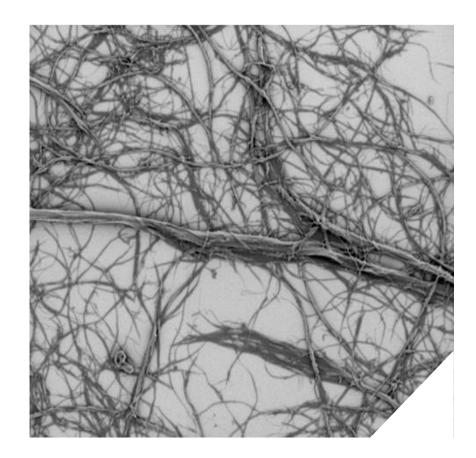
From pharma to concrete





Cellulose fibrils – Exilva

- Microfibrillar cellulose (MFC) is cellulose fibers defibrillated into millions of tiny fibrils (100,000 times thinner than hair)
- Exilva is Borregaard's brand name for microfibrillar cellulose used in industrial applications
- Exilva is a sustainable biobased material with multifunctional properties
 - Improves flow, stability, flexibility and strength in industrial formulations and materials
 - Enables customers to develop new and improved products





Cellulose fibrils – growing customer base

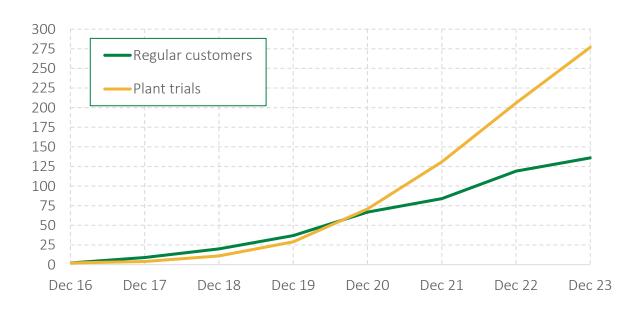
136 regular customers

- Good growth and promising development within selected applications
 - Corrugated board
 - Home Care
 - Barrier Coating
 - Elastomeric

277 potential customers in plant trial phase

• Stable and good development of plant trials

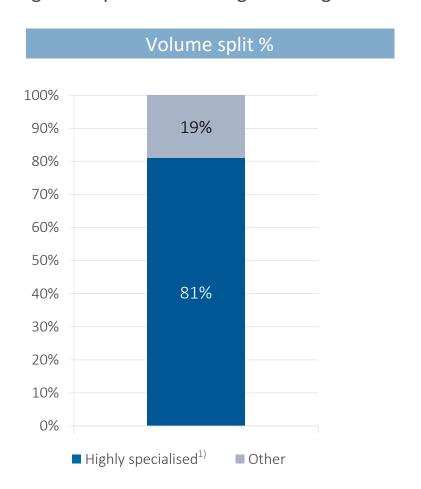
Customers and plant trials

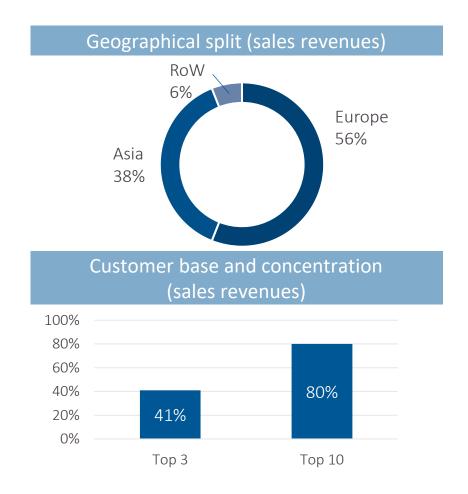




Sales distribution 2023

Borregaard is positioned in high-end segments in Europe and Asia, with strong and long-lasting customer relationships







Fine Chemicals

Fine chemical intermediates

Market position

• Leading producer of intermediates for contrast agents

Production

Sarpsborg, Norway

Products

- C3 aminodiols
- Intermediates for pharmaceutical products

Applications

- Contrast agents for medical imaging
- Medicines

Market growth¹⁾

• 5-7%





Bioethanol

Market position

 Leading producer of second-generation bioethanol

Production

Sarpsborg, Norway

Products

Pure and denatured bioethanol

Applications

 Biofuel, disinfectant, pharmaceutical industry, home and personal care products, paint/varnish, car care

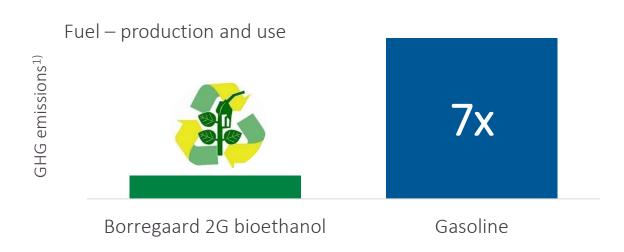
Capacity

• 20 million liters



Sustainability

Favourable climate footprint



2nd generation bioethanol vs petroleum-based fuel

• Increased demand in different countries due to incentives





Financial objectives and dividend policy

Financial objectives

- ROCE²⁾ >15% pre-tax over a business cycle
- IRR >15% pre-tax for expansion capex
- Average net working capital at 20% of operating revenues
- Replacement capex at depreciation level
- Maintain key financial ratios corresponding to an investment grade rated company
 - Leverage ratio¹⁾ targeted between 1.0 and 2.25 over time
 - Issuer rating of A-/Stable from Scope ratings affirmed in April 2024

Borregaard's dividend policy

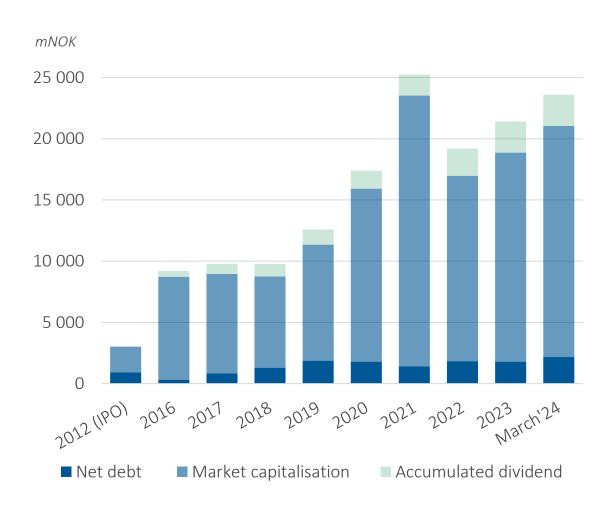
- To pay regular and progressive dividends reflecting Borregaard's expected long term earnings, free cash flows and expansion capex
- Annual dividend is targeted between 30% and 50% of net profit for the preceding fiscal year





Financials

Value creation since IPO

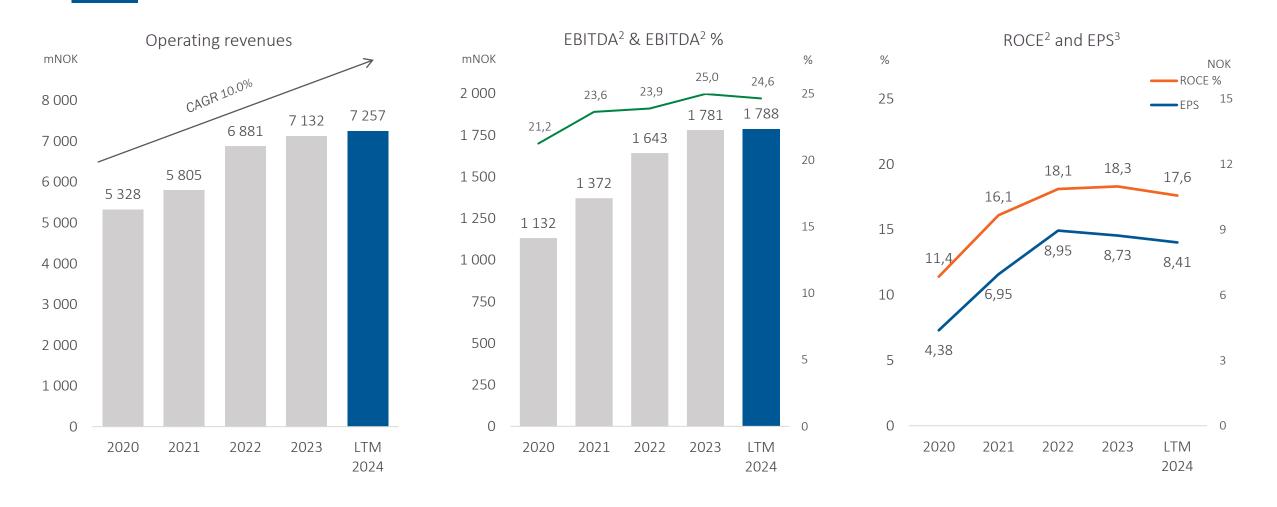


	CAGR
Share price, including reinvestment of dividend	24.4%
Enterprise value = market cap + net debt	18.5%



Financials

Key figures 2020 - 2024 (LTM¹)



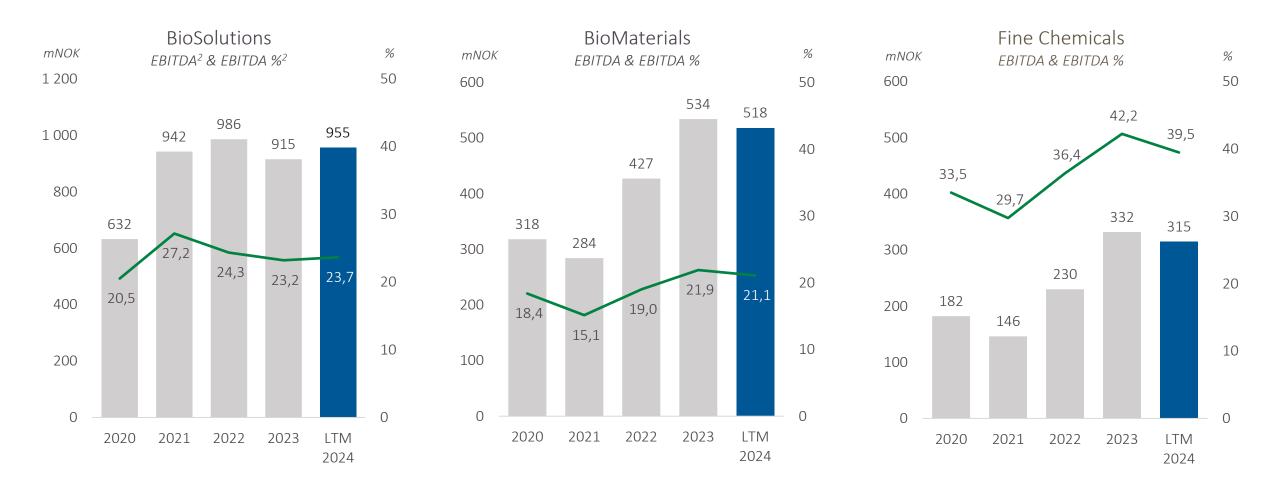


¹ Last twelve months as per March 2024

² Alternative performance measures – see Appendix

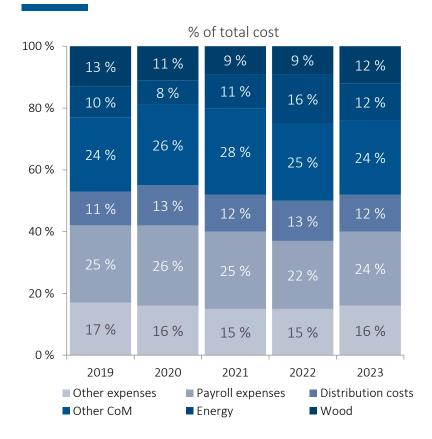
³ Earnings per share

Key segment figures 2020 – 2024 (LTM¹)





Key cost items 2019-2023



- Total costs in 2023 were 5.4 billion NOK
- 7.2% CAGR from 2019 to 2023
- Main cost components' share of total costs relatively stable over time

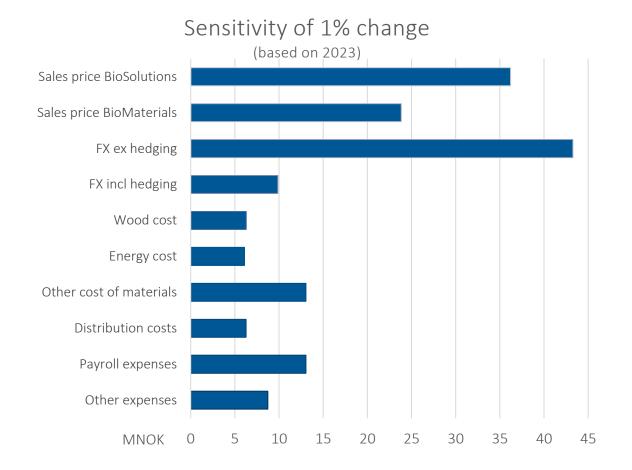




Financials

Sensitivity on EBITDA¹⁾

- Global presence, diversified product portfolio and GDPdriven demand reduce market risk
- Oil price affects demand and competition in certain markets, but main effect historically has been on NOK FX rate
- Significant FX exposure, softened by FX hedging²⁾ in the medium term
- No major single component in other cost of materials
- Distribution costs: Most products sold "delivered customer"
- Other expenses are repair and maintenance, external services, rental/leasing etc.





¹⁾ Alternative performance measure – see appendix

²⁾ Hedging based on expected net cash flow (EBITDA)

⁻ Base hedge - 75%/50% on a rolling basis for 6/9 months for major currencies

⁻ Extended hedge - 75%/50% of the next 24/36 months if USD and EUR are above predefined levels

Resilient specialisation strategy in the face of a potential recession

Specialised products less exposed to cyclicality

Reduced exposure to cyclical markets over time

- Sales to concrete admixtures reduced by >50%
- Fully specialised cellulose business

A recession will affect demand in general

Diversified market strategy

- 800 products to numerous applications
- Global presence
- Takes risk out of integrated operations





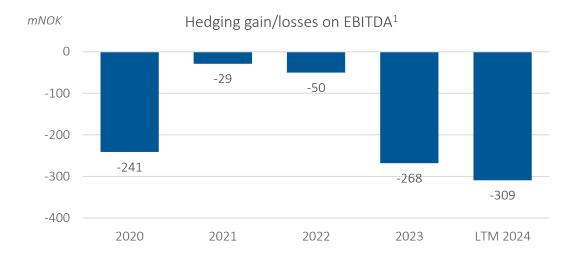
FX impact and policy

Currency hedging strategy

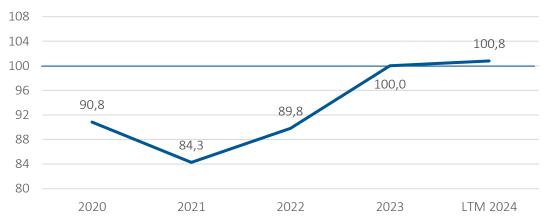
- Purpose is to delay effects of currency fluctuations and secure competitiveness
- Hedging based on expected net cash flow (EBITDA²)³
- Base hedge 75%/50% on a rolling basis for 6/9 months for major currencies
- Extended hedge 75%/50% of the next 24/36 months if USD and EUR are above defined levels
 - EUR; gradually increased at effective rates from 10.00 to 10.50
 - USD; gradually increased at effective rates from 9.00 to 9.50
- Contracts⁴ 100% hedged
- Balance sheet exposure hedged 100%
- Net investments in subsidiaries hedged up to 90% of book value in major currencies

FX exposure

- Borregaard's revenues are primarily in USD or EUR, while costs are primarily in NOK
- Net FX exposure in 2023 USD: 60% (approximately 232 mUSD)
- EUR: 42% (approximately 149 mEUR)
- Other: -2% (GBP, BRL, SGD, SEK)





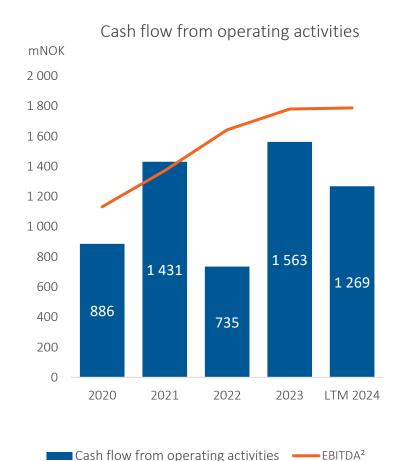


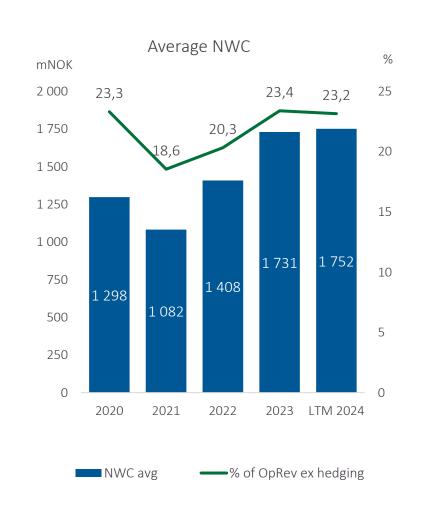


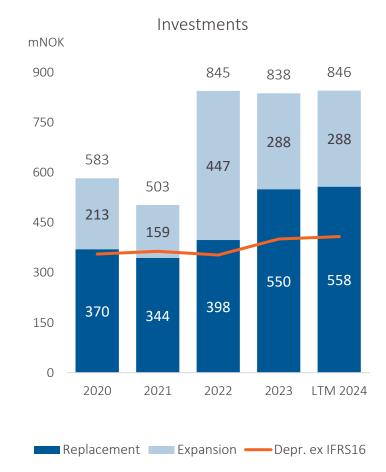
- 2 Alternative performance measures see Appendix
- 3 Net cash flow hedging mainly in the Norwegian company
- 4 Strict definitions for contracts applied for 100% hedging (mutually binding agreement in which price, currency, volume and time are defined)
- 5 Currency basket based on Borregaard's net exposure in 2023 (=100)



Cash flow, NWC and investments 2020 – 2024 (LTM¹)







¹ Last twelve months as per March 2024

² Alternative performance measures - see Appendix

Continuous reduction of emissions and effluents

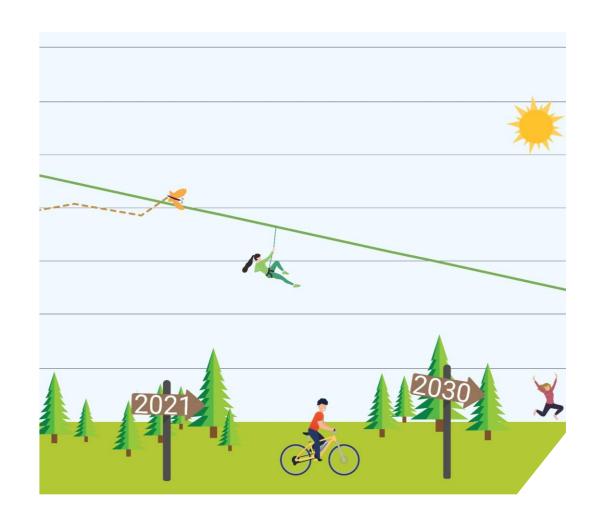
2030 environmental targets

- 42% reduction in CO₂ emissions from 2020
 - Electrification, energy conservation, innovative heat recovery
- 30-50% reduction in effluents to water (COD) from 2020
 - Process improvements and wastewater incineration technology

Financial consequences and strategic considerations

- Preliminary investment estimate 650-850 mNOK for 2023 to 2025
 - First investment of 230 mNOK announced Q4-22
 - Second investment of 275 mNOK announced Q1-24
- Supporting specialisation and value growth investments
- Increased flexibility between energy sources
- Improved environmental footprint
- Increased barriers to entry and strengthened competitive position

Sustainability offering new opportunities
Environmental investments will improve competitive position





Environmental investment of 230 mNOK at the biorefinery in Norway

Improved environmental footprint

- Removing absolute dependency on LNG
- 30,000 tonnes annual reduction of CO₂ emissions
- Part of investment plan announced at CMD

Increased energy flexibility and efficiency

- Significant cost reduction potential
- Introducing more options to switch between alternative energy sources
- Improved energy efficiency

Completion in H1-24





Environmental investment of 275 mNOK at the biorefinery in Norway

Infrastructure investment

- Upgrade of the electricity transformation capacity
- End-of-life replacement of equipment
- In collaboration with regional grid owner Elvia

Prerequisite for climate targets and growth

- Facilitating delivery of long-term environmental goals
- Making headroom for future growth projects

Completion in 2028

- Borregaard's share of total investment 275 mNOK
- Investment period 2024-2028





Borregaard transition plan to cut scope 1 and 2 GHG emissions





Significant potential for further specialisation and value growth

- Continuous specialisation and product mix improvements
- Innovation portfolio and sustainability offering new opportunities
- Exploit full potential of previously completed expansion investments
- Additional expansion opportunities at the Sarpsborg biorefinery
 - Further specialisation of lignin-based biopolymers
 - Increased flexibility in the integrated production
 - Volume expansion through debottlenecking for speciality cellulose, lignin-based biopolymers and bioethanol
 - Preliminary investment estimate 650-900 mNOK for 2023 to 2025, mainly medium size projects
 - Announced investments total 341 mNOK so far
- Further development of the Sarpsborg site is a low-risk investment and raises barriers to entry





Specialisation investment in BioSolutions

70 mNOK expansion investment in lignin-based biopolymers

- Debottlenecking of existing facilities at the Sarpsborg biorefinery
- Volume expansion for highly specialised products
- Low-risk investment with known technology to Borregaard
- Reduction in CO₂ emissions¹⁾

New capacity will gradually be phased into attractive niche markets

Completion in H1-24

Targeted application areas

- Batteries²⁾
- Oilfield chemicals, agrochemicals, pigments and dyes





¹ Scope 1 emissions

² For more information on Borregaard's product portfolio of high-performing battery additives: https://www.borregaard.com/markets/batteries/

Specialisation investment in BioSolutions

100 mNOK expansion investment

- 1,000 mtds¹/year demonstration plant at Sarpsborg biorefinery
- Completion mid-2025, gradual start-up from H2-24

New green technology platform for high-end applications

- Next generation lignin-based biopolymers
- Granulation² of existing and new products

Targeted application areas

- Home care applications like detergents, laundry and cosmetics
- Industrial cleaners and water treatment
- Agriculture





¹ Metric tonnes dry solid

² Granulation is a method of making free-flowing granules from liquids

Investment forecast 2024-2025

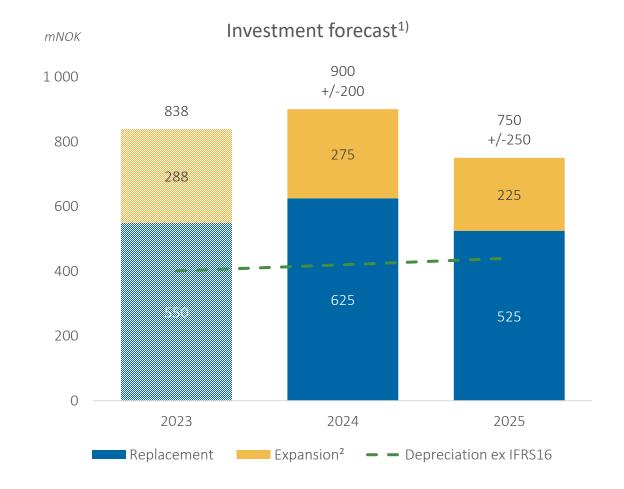
Replacement investments

- Targeted CO₂ and COD reductions explain above target level investments
- Supporting specialisation and value growth investments

Expansion investments

- Further specialisation, increased flexibility and debottlenecking at the Sarpsborg site
- Increased ownership in Alginor and investments in biobased start-ups (2023)

New projects may lead to additional investments

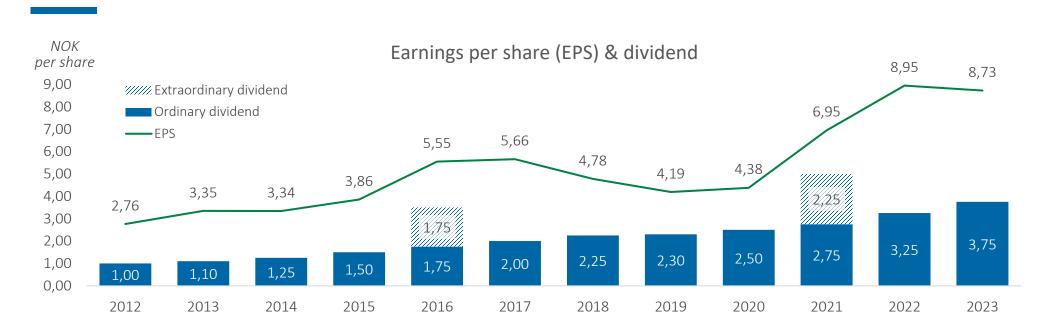




¹⁾ Uncertainty is related to final investment decisions, timing of investment payments, execution time and risk and unexpected events 2) Alternative performance measures - see Appendix

Financials

Increasing EPS, progressive dividends and solid financial position



Increasing EPS and dividend

- 11.3% average annual growth in EPS from 2012
- Dividend
 - Target: Regular and progressive dividends, between 30% and 50% of net profit
 - Extraordinary dividend for 2016 and 2021

Solid capital structure

- Leverage ratio¹⁾ 1.01 and equity ratio¹⁾ 54% (Q4-23)
 - Maintain key financial ratios corresponding to an investment grade rated company
 - Leverage ratio target: Between 1.0 and 2.25
- Substantial undrawn credit facilities



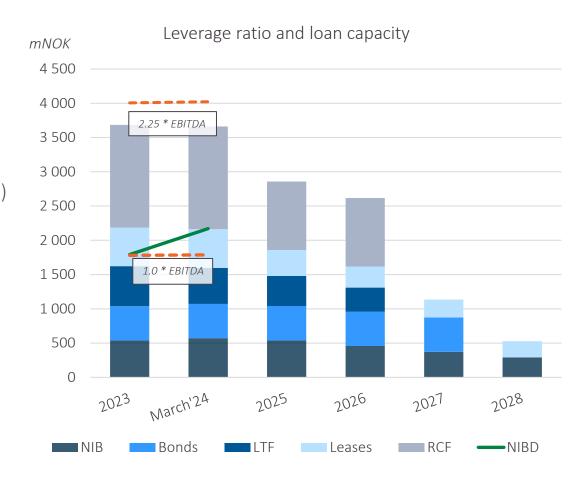
Capital structure – credit facilities and maturities

Long term credit facilities

- Revolving credit facilities (RCF) in July 2020,
 maturity 2025 and 2027, margin linked to sustainability targets
- 60 mUSD term loan for LignoTech Florida (LTF), maturity 2027
- 500 mNOK 5-year green bonds, maturity 2028 (issued June 2023)
- Nordic Investment Bank (NIB) loans;
 40 mEUR maturity 2024, 50 mUSD maturity 2032

Short term credit facilities

- 225 mNOK overdraft facilities
- 15 mUSD overdraft facility in LignoTech Florida





Highly experienced and proven management team



CEO Per A. Sørlie

- CEO since 1999
- Member of management team since 1990
 - 34 years with Borregaard



Per Bjarne Lyngstad

- CFO
- 26 years in current position
- 36 years with Borregaard



Liv Longva

- SVP Strategic Sourcing
- In current position from June 2020
 - 16 years with Borregaard



Tom Erik Foss-Jacobsen

- EVP BioSolutions
- In current position from May 2019
 - 25 years with Borregaard



Kristin Misund

- SVP R&D and Business development
- In current position from May 2019
 - 31 years with Borregaard



Gisle Løhre Johansen

- EVP Speciality Cellulose and Fine Chemicals
 - In current position from May 2019
 - 33 years with Borregaard



Dag Arthur Aasbø

- SVP Organisation and Public Affairs
 - 16 years in current position
 - 31 years with Borregaard



Ole Gunnar Jakobsen

- Plant Director Sarpsborg Site
- 16 years in current position
- 29 years with Borregaard



Sveinung Heggen

- General Counsel
- 11 years in current position
- 11 years with Borregaard



Appendix – alternative performance measures

In the discussion of the reported operating results, financial position and cash flows, Borregaard refers to certain measures which are not defined by generally accepted accounting principles (GAAP) such as IFRS. Borregaard management makes regular use of these alternative performance measures and is of the opinion that this information, along with comparable GAAP measures, is useful to investors who wish to evaluate the company's operating performance, ability to repay debt and capability to pursue new business opportunities. Such alternative performance measures should not be viewed in isolation or as an alternative to the equivalent GAAP measure.

- *EBITDA*: Operating profit before depreciation, amortisation and other income and expenses.
- EBITDA margin: EBITDA divided by operating revenues.
- Equity ratio: Equity (including non-controlling interests) divided by equity and liabilities.
- Expansion investments: Investments made in order to expand production capacity, produce new products or to improve the performance of existing products. Such investments include business acquisitions, pilot plants, capitalised R&D costs and new distribution set-ups.
- Other income and expenses: Non-recurring items or items related to other periods or to a discontinued business or activity. These items are not viewed as reliable indicators of future earnings based on the business areas' normal operations. These items will be included in the Group's operating profit.
- Leverage ratio: Net interest-bearing debt divided by last twelve months' EBITDA.
- Net interest-bearing debt (NIBD): Interest-bearing liabilities minus interest-bearing assets.
- Return on capital employed (ROCE): Last twelve months' capital contribution (operating profit before amortisation and other income and expenses) divided by average capital employed based on the ending balance of the last five quarters. Capital employed is defined as the total of net working capital, intangible assets, property, plant and equipment, right-of-use assets and investment in joint venture minus net pension liabilities.

