Borregaard ASA - Water Security 2023



W0. Introduction

W_{0.1}

(W0.1) Give a general description of and introduction to your organization.

Borregaard operates one of the world's most advanced biorefineries. The Group provides sustainable products and solutions based on renewable raw materials and unique competence

A BIOREFINERY WITH HIGH VALUE-ADDED

The Group's business model is closely linked to the integrated nature of its biorefinery in Norway, which utilises the three key components of wood – cellulose fibres, lignin and sugars – to produce a diversified portfolio of products. The biorefinery utilises 94 percent of the feedstock to make biochemicals, biomaterials and energy that can replace oil-based products. In addition to its biorefinery in Sarpsborg, Borregaard has 5 production sites outside Norway dedicated to producing lignin-based products. In total, the company has manufacturing operations and sales offices in 13 countries in Europe, Asia and the Americas serving its global customer base. At the end of 2022, the Group had 1,107 full-time equivalent (FTE) employees.

SPECIALISATION IN GLOBAL NICHES

Borregaard is a supplier of specialised biochemicals and biomaterials to a global customer base. The Group's main products are lignin-based biopolymers and biovanillin, speciality cellulose, cellulose fibrils, fine chemical intermediates and second-generation bioethanol. The products are used in a variety of applications in sectors such as feed and agriculture, construction and building materials, food and pharma, personal care, batteries, biofuel and various other industries. The Group's strong market positions have been developed through in-depth understanding of its markets, production of advanced and specialised products and local presence in the form of a global sales and marketing organisation.

COMPETENCE AS THE MAIN COMPETITIVE ADVANTAGE

Borregaard is a competence-driven company with production, research and development (R&D) and sales and marketing as its core competencies. To maintain its leading position, the Group has a strong focus on training programmes and cooperation between the various disciplines. Borregaard has a leading research centre combining various chemicals disciplines, biotechnology and microbiology, developing new or improved products, applications and production technologies. The Group had 93 employees in R&D as of 31 December 2022.

SUSTAINABLE BUSINESS MODEL

Sustainability is a key element in Borregaard's business model and one of the Group's core values. This is reflected in the Group's main objective: Providing sustainable products and solutions based on renewable raw materials and unique competence. Our understanding of sustainability and corporate responsibility derives from the fact that our business model itself, the way we run our company and the products we produce, is sustainable and meets global needs.

The UN predicts population growth of around 13% by 2030, which will generate resource scarcity and an extraordinary demand for climate friendly solutions in our daily lives. The UN has defined specific sustainability goals and measures within areas such as access to raw materials, energy, food and infrastructure. These factors are expected to increase demand for sustainable products and will present opportunities for Borregaard's innovative solutions in terms of creating good lives within a sustainable framework, also identified in the climate scenario analysis that Borregaard conducted in 2022.

Borregaard will take climate action and demonstrate how our business can help to advance sustainable development by both minimising negative environmental impacts and maximising positive environmental impacts.

The Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment report from August 2021 provides new estimates of the chances of crossing the global warming level of 1.5°C in the next decades, and states that unless there are immediate, rapid and large-scale reductions in greenhouse gas emissions, limiting warming to close to 1.5°C will be beyond reach. In 2022 Borregaard revised the targets for GHG reduction, the targets are in line with the 1.5°C goal in the Paris Agreement and the targets are approved by the Science Based Target Initiative (SBTi).

Borregaard has engaged an independent third party, Norsus, to conduct a life cycle assessment (LCA) based on the ISO 14044/48 standard. The LCA analyses the environmental impacts of our production, from raw materials to finished products. The LCA confirms that the environmental and climate footprint of Borregaard's products have diminished over time. Borregaard's bio-based products do well from a climate perspective when compared to oil-based alternatives. Borregaard has made large efforts to reduce greenhouse gas emissions in its own processes by elimination of heavy oil consumption and increasing the amount of energy derived from more eco-friendly energy sources.

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W-CH0.1a

(W-CH0.1a) Which activities in the chemical sector does your organization engage in?

Bulk inorganic chemicals

Specialty organic chemicals

W0.2

(W0.2) State the start and end date of the year for which you are reporting data.

| | Start date | End date |
|----------------|----------------|------------------|
| Reporting year | January 1 2022 | December 31 2022 |

W0.3

(W0.3) Select the countries/areas in which you operate.

Czechia

Germany

Norway

United Kingdom of Great Britain and Northern Ireland

United States of America

W0.4

(W0.4) Select the currency used for all financial information disclosed throughout your response.

NOK

W0.5

(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.

Companies, entities or groups over which operational control is exercised

W0.6

(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?

No

W0.7

(W0.7) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

| Indicate whether you are able to provide a unique identifier for your organization. | Provide your unique identifier |
|---|--------------------------------|
| Yes, an ISIN code | NO0010657505 |

W1. Current state

W1.1

(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.

| | Direct use | Indirect | Please explain |
|--|------------|------------|--|
| | importance | | |
| | rating | importance | |
| | | rating | |
| Sufficient amounts of good quality freshwater available for use | Vital | | Water is one of the main elements in a biorefinery manufacturing process. At Borregaard Norway (95% of total withdrawal), freshwater is used for cooling, steam production and hot water production, as well as washing and transporting biomass/fiber in the biorefinery/pulp production processes. Therefore, direct use importance rating is "vital". The site is self-sufficient and has access to freshwater from the river Glomma via its own water treatment facility. Since water is vital to Borregaard we have built our own water treatment facility. The facility was completed in 2004 and has the capacity to supply Borregaard with the necessary amount of water needed for the production process. Good quality of the water after treatment is vital due to that Borregaard has several products that require high quality water (food, pharma etc.) The production site in Czechia, Germany and two in USA uses less than 5% of the total withdrawal of water. The production process is mainly drying of liquid biopolymers in spray driers. The future water dependency is expected to be unchanged for the direct operations, because we plan to have the same type of production in the future. The indirect water use of good quality freshwater is rated vital, the reason for that is that Borregaard's production units outside Norway receive lignin raw material from adjacent pulp mills, and from the experience form our pulp mill/biorefinery in Norway we know that sufficient fresh water is vital for a pulp mill, see explanation above. The future water dependency for indirect operations is expected to remain vital as we anticipate that we will continue to source lignin raw material from pulp mills at |
| | | | the same extent as we do today. |
| Sufficient amounts of recycled, brackish and/or produced water available for use | Important | | In Borregaard for all 6 production sites there is only a minor primary use of brackish and/or produced water in direct and indirect operations. The main production site, Borregaard Norway is a biorefinery. One part of the biorefinery is a speciality cellulose pulp line, closed water circuits are used in the process of washing the pulp, which means that wash water is recycled to some extent. Thus we have selected the importance rating "important" for direct operations due to the use of recycled water in the closed water circuits in the pulp production line. |
| | | | The indirect water (used by our suppliers), use of recycled, brackish and/or produced water as "important". The reason for this is that Borregaard's production units outside Norway receive lignin raw material from adjacent pulp mills, and from the experience from our pulp mill/biorefinery in Norway we know that recycling of closed water circuits is used in the process of washing the pulp, which means that wash water is recycled to some extent. Recycling of water is important for energy efficiency, resource optimisation and cost in a pulp mill. |
| | | | Future water dependency will most likely not differ in the direct and indirect operations as long as there are no changes in geographic production sites and type of products produced. |

W1.2

(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

| | % of sites/facilities/operations | Frequency of measurement | Method of measurement | Please explain |
|--|----------------------------------|---------------------------------|---|--|
| Water withdrawals – total volumes | 100% | Continuously | water withdrawals), where water withdrawal volumes are measured continuously in real-time with on-line measurement devices ("in-place" flow meters). | Data are reported from all of Borregaard's 6 operational sites. Borregaard's water withdrawal volumes used in processes and for cooling purposes are measured in m3 Total water withdrawal is 54615 megaliters. The reason for measuring the total volumes is to be able to control the usage. A water accounting system is used to monitor the water usage for each production unit that the site consists of. The production sites in Czechia, Germany, UK and the two in USA uses less than 5% of the total withdrawal of water, and they report a yearly number of water withdrawal based on volume measurements and some estimates. |
| Water withdrawals – volumes by source | 100% | Continuously | The main water withdrawal source is surface water from the river Glomma in Norway (94% of total water withdrawals), water withdrawal volumes are measured continuously in real-time with on-line measurement devices ("in-place" flow meters). The method of measurement is magnetic flow meter. The water produced is calculated from raw material volumes times dry matter measurements in the raw materials, yearly calculation. | Data are reported from all of Borregaard's 6 operational sites. Surface water 51133 megaliters, groundwater renewable 141 megaliters, produced water 531 megaliters and water from third parties 2810 megaliters. The reason for measure the volumes by source is to be able to report within Borregaard, and to report externally as several of our stakeholders expect. The production site in Czechia, Germany, UK and the two USA uses less than 5% of the total withdrawal of water, and they report at yearly number of water withdrawal based on volume measurements and some estimates. |
| Entrained water associated with your metals & mining and/or coal sector activities - total volumes [only metals and mining and coal sectors] | <not applicable=""></not> | <not Applicable></not | <not applicable=""></not> | <not applicable=""></not> |
| Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector] | <not applicable=""></not> | <not Applicable></not | <not applicable=""></not> | <not applicable=""></not> |
| Water withdrawals quality | 76-99 | Continuously | The quality of the water withdrawals from the river Glomma is monitored continuously at the water treatment facility (site level), with daily water sampling and lab testing of pH and turbidity. Water withdrawal from the river Glomma used for drinking quality follows the regulatory demands for water quality from the Norwegian Food Safety Authority. | Data are reported from Borregaard operational site in Norway. Borregaard's site in Norway is 78% of Borregaard's total revenue/ operations (1 of 6 sites, and has 95% of the total water withdrawal). Water withdrawals consists of river water 98%, municipal water 1% and produced water from raw materials 1%. The reason for why Borregaard measures the quality is that it is a requirement for several of the products that are delivered to the food and pharma market. |

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| | % of sites/facilities/operations | Frequency of measurement | | Please explain |
|---|----------------------------------|--------------------------|---|---|
| Water discharges – total volumes | 100% | Continuously | The main water discharge is from Borregaard Norway (94% of total water discharges) where discharge volumes are measured continuously in real-time with on-line measurement devices ("inplace" flow meters). The method of measurement is magnetic flow meter. The production site in Czechia, Germany, UK and | Data are reported from all of Borregaard's 6 operational sites. Water discharge volumes is used to calculate the amount of substances in the water discharge, which is a requirement from environmental authorities. Process wastewater 19089 megaliters, cooling water 34969 megaliters and 116 megaliters of sanitary wastewater. To balance water accounting (total volumes), "water discharges not measured" is |
| | | | the two USA discharges less than 6% of the total | To balance water accounting (total volunies), water discharges measured - Water consumptions = 54615-53947-325=343 megaliters in 2022 (1% of total water discharges) |
| Water discharges – volumes by destination | 100% | Continuously | The main water discharge is from Borregaard's site in Norway to river Glomma (94% of total water discharges) where discharge volumes are measured continuously in real-time with on-line measurement devices ("in-place" flow meters). The production sites in Czechia, Germany, UK and the two sites in USA discharges less than 6% of the total discharges of water, and they report yearly numbers of water discharges based on volume measurements and some estimates. | Data are reported from all of Borregaard's 6 operational sites. Water discharges to surface water 52630 megaliters and to third party destinations 1660 megaliters. Data are reported from all of Borregaard's operational sites. In the method used for measurement, the volumes are essential as they are used to calculate the amount of substances in the water discharge per destination, which is a requirement from environmental authorities but also something some of our stakeholders expect us to do. |
| Water discharges – volumes by treatment method | 100% | Continuously | The main water discharge is from Borregaard's site in Norway to river Glomma (94% of total water discharges) where 100% of discharge volumes, incl. volumes treated by the wastewater treatment plant, are measured continuously in real-time with on-line measurement devices ("in-place" flow meters). The production sites in Czechia, Germany, UK and USA (6% of the total discharges of water) report yearly numbers of water discharges based on some volume measurements and some estimates. | Data are reported from all of Borregaard's operational sites. We are committed to reducing water pollution. We prioritize the treatment of our discharges, depending on the specific operations at each site. The volumes of the discharge water is reported directly from the DCS-system to the digital emission accounting system. |
| Water discharge quality – by standard effluent parameters | 100% | Continuously | The main water discharge is from Borregaard's site in Norway to river Glomma (94% of total water discharges). Automatic samplers in the effluent discharge pipes, take samples that are representative for the water discharge. Every 24 hours a sample is taken out from the sampler by a third party and brought to our own laboratory for measuring of standard effluent parameters. Components in the effluents to water are measured in accordance with Norwegian or International standards. | Data are reported from all of Borregaard's operational sites. Water discharges is measured by standard effluent parameters, to meet the requirements of environmental permits of local authorities. COD, which is an indirect measure for the organic content in the effluent, is the main parameter in the emission monitoring program. The concentration of the effluent parameter is entered into the emission accounting, where the volume of discharged water times concentration gives the water discharge quality. Borregaard's site in Norway has 94% of the total water discharges. Several effluent parameters are measured daily/weekly from process wastewater: COD, BOD, AOX, S-TS, N, P and metals. Total COD emissions in process water discharged was 54 t/day in 2022. The permit for COD in the effluent is reduced from 69 tonnes to 59 tonnes per 24-hour period (on average over the year) to comply with BAT levels for emissions to water. Requirement in the emission permit from the authorities. |
| Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances) | 100% | Continuously | Sampling: Automatic samplers in the effluent discharge pipes, take samples that are representative for the water discharge. Every 24 hours a sample is taken out from the sampler. Lab testing: Components in the effluents to water are measured in accordance with Norwegian or International standards. Mass calculation: The concentration of the effluent parameter is entered into the emission accounting, where the volume of discharged water times concentration gives the mass of emission to water. | Data are reported from all of Borregaard's operational sites. Emissions to water is measured to meet the requirements of environmental permits of local authorities. Borregaard's site in Norway has 94% of the total water discharges. Emissions to water measured daily/weekly from process wastewater: Nitrates as "total nitrogen" and phosphates as "total phosphorus". Other priority substances relevant measurements are heavy metals. |
| Water discharge quality – temperature | 76-99 | Continuously | Temperature is measured continuous for some of the effluents at the production site in Norway. Temperature measurement is continuous and based on sensors measuring resistance. | Data are reported from Borregaard's operational site in Norway. Borregaard's production site in Norway accounts for 78% of Borregaard's total revenue/operations (1 of 6 facilities, and has 94 % of the total water discharges). In the internal water circuits in the production process, as much heat is taken out as possible and used for the production of hot water energy. The 37oC wastewater from the wastewater treatment plant is cooled down to river temperature before it enters the recipient river Glomma, the energy is used for district heating in Sarpsborg, Norway. It is not known if temperature is monitored at the other production sites. |
| Water consumption – total volume | 100% | Yearly | Water consumption volumes are calculated from production volumes times dry matter measurements in the products. The calculation is done on a yearly basis (= volume incorporated into products). | Data are reported from all of Borregaard's operational sites. Water consumption is reported in our environmental product datasheet (EPD's). |

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| | % of sites/facilities/operations | | Method of measurement | Please explain |
|---|----------------------------------|--------------|--|---|
| Water recycled/reused | 76-99 | Continuously | Water flow are measured continuously in real-time with on-line measurement devices ("in-place" flow meters). The method of measurement is magnetic flow meter | Data are reported from Borregaard's operational site in Norway. The production site in Norway accounts for 78% of Borregaard's total revenue/operations (1 of 6 sites and has 95 % of the total water withdrawals). Borregaard's site in Norway recycles water in its production for saving heating energy and for reducing the amount of water used. There are several ways Borregaard is reusing water: 1) Closed water circuits are used in the process of washing the pulp, which means that wash water is recycled to some extent, limited by right product quality. 2) Condensates from evaporation units is used for washing. 3) Steam condensate is routed back to the boiler house to produce new steam. In addition, for the condensates the temperature is measured to calculate the energy content, and report the reuse as % of reused condensate in GJ pr feed water for |
| The provision of fully- functioning, safely managed WASH services to all workers | 100% | Yearly | The WASH service is monitored as compliance to Norwegian regulations for WASH service (Arbeidsplassforskriften § 3-7). The level stays at 100% all the time, because every time we build a new building or buy a new one, we make sure that it has WASH services for employees that is working there. I Norway where we have over main operations, this is regulated by law. | steam production. 100 % of Borregaard's workers have access to clean water supply, adequate sanitation and hygiene at all times. Facilities are located in areas where sanitation and WASH services are well managed. The monitoring of compliance with WASH service is updated when a new building is finnished, and is expected to stay on same level in future. This aspect is relevant because our company recognizes the importance of access to WASH in our Human rights policy, through commitment to the Universal Declaration of Human Rights, The International Labour Organization's Declaration on Fundamental Principles and Rights at Work, The International Covenant on Economic, Social and Cultural Rights, The International Labour Organisation's (ILO) Declaration on Fundamental Principles and Rights, and OECD Guidelines for Multinational Enterprises, thus we are committed to implementing access to safe water, sanitation and hygiene at the workplace at an appropriate level of standard for all employees in all sites |

W1.2b

(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

| | Volume (megaliters/year) | Comparison with previous reporting year | Primary reason for comparison with previous reporting year | Five- year forecast | Primary reason for forecast | Please explain |
|----------------------|-----------------------------|---|--|---------------------------|--|--|
| Total withdrawals | 54615 | Lower | Increase/decrease in efficiency | Lower | Increase/decrease in efficiency | The volumetric data is obtained from measurements of water intake and summarized for all the 6 production sites. For cooling water there is done some estimates in the data. The total withdrawals are lower than previous years due installation of a project in the digester plant at Borregaards production site in Norway, which has enabled increased recycling of condensates for steam production, thus less fresh water is withdrawed. The production volume of products was almost the same. Five-year forecast: The production volume is expected to remain more or less the same, but there are some initiatives planned to increase the amount of recycled water in the bleaching plant at Borregaard in Norway that might have an effect om the total water withdrawal. Comparison of total withdrawals with previous reporting year - threshold: About the same <5%, lower/higher 5-20%, much lower/higher >20% |
| Total discharges | 54290 | Lower | Increase/decrease in efficiency | Lower | Increase/decrease in efficiency | All of Borregaard's operational sites are reporting their water discharge volumes. The volumetric data is obtained from continuous measurements of water discharges. For cooling water there are done some estimates in the data. The total discharges are lower than previous years due installation of a project in the digester plant at Borregaards production site in Norway, which has enabled increased recycling of condensates for steam production, thus less condensates is discharged to the river. The production volume of products was almost the same. Five-year forecast: The production volume is expected to remain more or less the same, but there are some initiatives planned to increase the amount of recycled water in the bleaching plant at Borregaard in Norway, that might have an effect om the total water discharge. Comparison of total discharges with previous reporting year - threshold: About the same <5%, lower/higher 5-20%, much lower/higher >20% |
| Total consumption | 325 | About the same | Other, please specify (The total consumption is at the same level as previous year due to same production volumes.) | About the same | Other, please specify (The production volume is expected to remain more or less the same, we might produce more dry lignin products for Borregaard in Norway, that might will give some reduction in consumption compared to if the product was delivered as 50% moisture content) | Data are reported from all of Borregaard's operational sites. Water consumption volumes are calculated from production volumes times dry matter measurements in the products. (=Volume incorporated into products) Comparison of total consumption with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |

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(W1.2d) Indicate whether water is withdrawn from areas with water stress, provide the proportion, how it compares with the previous reporting year, and how it is forecasted to change.

| | areas with water stress | withdrawn from areas with water stress | previous reporting year | reason for comparison with previous reporting year | | for forecast | tool | Please explain |
|-------|----------------------------|--|---------------------------------|---|--------------------------------------|--------------------------------------|--------------------------|--|
| Row 1 | No | | <not Applicable></not | <not Applicable></not | <not Applicab le></not | <not Applicab le></not | WWF Water Risk Filter | Water scarcity risks have been evaluated for Borregaard's operations using The WWF Water risk filter. The overall risk of physical, regulatory, and reputational risks is aligned with the UN Global Compact CEO Water Mandate framework. Physical risk includes scarcity, flooding, water quality and ecosystem status. Regulatory risk includes enabling environment, institutions and governance, management instruments, and infrastructure and finance. Whilst reputational risk includes cultural importance, biodiversity importance, media scrutiny and conflict. Most of the water withdrawal, discharge and consumption are linked to our biorefinery in Norway (95%). The river Glomma is the largest river in Norway and has an average water flow of 577 m3/sec. The Sarpsfossen waterfall, which is close to the biorefinery, is Europe's largest waterfall (amount of water), and the overall water scarcity risk is low. Climate scenarios for the area around Borregaard's biorefinery show a wetter climate with more precipitation. Thus, the average water flow in the river Glomma is likely to increase. The biorefinery has access to water from the river Glomma via its own water treatment facility. Due to the large amounts of water available, water withdrawal is considered sustainable compared to areas in the world where water scarcity represents a risk due to climate change. Our production units in USA (Florida and Wisconsin), Germany, The Czech Republic and UK use less than 5% of the total withdrawal of water at Borregaard. The water is sourced from public waterworks or adjacent industrial areas. The production unit in Paskov has the highest physical water risk in both medium- and long-term time horizon, mainly due to the poor water quality in the area. Borregaard's lignin plant in Florida withdraws water from a ground water source, the Floridan aquifer system, which is one of the world's most productive aquifers. The WWF Water Risk Filter was applied to evaluate whether the water has been removed from stressed area area in all our producti |

W1.2h

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| | Relevance | Volume | Comparison | Primary reason for comparison with previous reporting | Please explain |
|---|--------------|---------------------------|---------------------------------|---|--|
| | | (megaliters/year) | with previous | year | |
| | | | reporting | | |
| | | | year | | |
| Fresh surface water, including rainwater, water from wetlands, rivers, and lakes | Relevant | 51133 | Lower | Increase/decrease in efficiency | Borregaard's main water withdrawal source is fresh water from river Glomma. Therefore this aspect is relevant for Borregaard. The production site in Norway has almost all its water withdrawal from the river Glomma. |
| invers, and lakes | | | | | 94 % of Borregaard's water withdrawal is from fresh surface water (measured volumes). |
| | | | | | The water withdrawal was lower in 2022 than in 2021 due to investment in increased efficiency of cooling water in the bleaching and digester plants, the same volume of products produced. |
| | | | | | The water withdrawal is expected to be the same or lower in the next 5 years. The production volumes will stay the same, but there is some plans to reduce the water withdrawal in some process units. |
| | | | | | The production sites in Czechia, Germany, UK and the two USA have less than 6 % of the water withdrawal and has water withdrawal from third party or ground water. |
| | | | | | Comparison with previous reporting year - threshold: About the same <5%, lower/higher 5-20%, much lower/higher >20% |
| Brackish surface water/Seawater | Not relevant | <not applicable=""></not> | <not Applicable></not | <not applicable=""></not> | None of our production sites in Norway, Czechia, Germany, UK and the two in USA use brackish/seawater in their production |
| Groundwater – renewable | Relevant | 141 | About the same | Other, please specify (The amount of water used in 2022 was about the same as in 2021 due to production process is being about the same.) | Borregaard's lignin plant in Florida has water withdrawal from a ground water source, the Floridan Aquifer System, which is one of the world's most productive aquifers (measured volumes). |
| | | | | | 0,3 % of Borregaard's water withdrawal is from groundwater. |
| | | | | | The volume of groundwater withdrawal in future is expected to be the same as the production volume is expected to be the same. |
| | | | | | Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |
| Groundwater – non- renewable | Not relevant | <not applicable=""></not> | <not Applicable></not | <not applicable=""></not> | None of our production sites in Norway, Czechia, Germany, UK and the two in USA use non-renewable groundwater in their production. |
| Produced/Entrained water | Relevant | 531 | About the same | Other, please specify (The amount of produced water volume was about the same in 2022 as in 2021, since the amount of raw materials used in 2021 and 2022 was about the same.) | Borregaards operations in Norway uses wood as raw material. Borregaards operations in Czechia, Germany and the two USA use biopolymers in liquid solutions as main raw materials. |
| | | | | are same.) | The raw material contains water. The moisture content in the raw material is measured at a regular frequency. The produced water is calculated as weight of raw materials multiplied by moisture content. |
| | | | | | 1 % of Borregaard's water withdrawal is from produced/entrained water. |
| | | | | | It is expected to be the same amount of raw material usages and same amount of produced water in the next 5 years. |
| | | | | | Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |
| Third party sources | Relevant | 2810 | About the same | Other, please specify (The amount of water used from third party was about the same in 2022 compared to 2021 (measured volumes), mainly because there where no changes in the production volume between the two years.) | Borregaard's production site in Norway receives some water from community water works. This could also be considered as a backup solution if for instance an incident as stop in power supply occurs. The production site in Czechia, Germany, UK, and the two in USA also uses third party water. |
| | | | | | 5 % of Borregaard's water withdrawal is from third party sources. |
| | | | | | The price of the water from the community water works at Borregaard Norway is 10 times higher than own produced water. New measurements have recently been installed, and we are expected to reduce this the next 3-5 years, as own produced water are much cheaper. |
| | | | | | Comparison with previous reporting year, threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |

W1.2i

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(W1.2i) Provide total water discharge data by destination.

| | Relevance | Volume (megaliters/year) | Comparison with previous reporting year | Primary reason for comparison with previous reporting year | Please explain |
|---------------------------------------|-----------------|-----------------------------|---|---|--|
| Fresh surface water | Relevant | 52630 | Lower | Increase/decrease in efficiency | Process wastewater and cooling water is discharged to the river Glomma in Norway and some cooling water to the fresh water nearby operations in Florida and in Wisconsin. For Borregaard Norway the total volume of water is measured and in addition the concentration of substances in wastewater to be able to calculate the effluent to water in kg. 97 % of Borregaard's water discharge is discharged to fresh surface water. The water discharge was lower in 2021 compared to 2022, more water especially water used for steam production was recycled. The amount ouf water discharged to fresh water is expected to decrease the next 3-5 years. The production volume is expected to remain more or less the same, but our strategy and plans is to increase the amount of recycled water in the bleaching plant at Borregaard Norway, that might have an effect om the total water discharge. Comparison with previous reporting year - threshold: About the same <5%, lower/higher 5-20%, much lower/higher >20% |
| Brackish surface water/seawater | Not relevant | <not applicable=""></not> | <not Applicable></not | <not applicable=""></not> | Water discharges to this particular destination is not relevant, because Borregaard is not supplying water discharges to brackish surface water/seawater. |
| Groundwater | Not relevant | <not applicable=""></not> | <not Applicable></not | <not applicable=""></not> | Water discharges to this particular destination is not relevant, because Borregaard is not supplying water discharges to groundwater. |
| Third-party destinations | Relevant | 1660 | About the same | Other, please specify (The amount of water discharged to third party was about the same in 2022 compared to 2021 (measured volumes), mainly because there where no changes in the production volume between the two years.) | Borregaard is supplying about 3% of the wastewater to third party destinations: third-party process wastewater treatment plants and city sewers. The amount of water is measured by the third-party and Borregaard receives bill's for the treatment. The volume is about the same as previous year due to the same production process and is expected to be the same in the next 3-5 years as the production process will remain more or less the same. Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |

W1.2j

(W1.2j) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

| | Relevance of treatment level to discharge | Volume (megaliters/year) | of treated | Primary reason for comparison with previous reporting year | % of your sites/facilities/operations this volume applies to | Please explain |
|----------|---|-----------------------------|----------------|---|--|--|
| Tertiary | Relevant | 3068 | About the same | Other, please specify (Same production process and volumes.) | | Relevant: At Borregaards operation in Norway, tertiary treatment is needed to remove suspended solids (biological sludge, nutrients, heavy metals), remaining after secondary treatment in the Anaerobic treatment plant. This volume applies to Borregaard Sarpsborg, 1 of 6 sites = 17% The processes for removal are including granular media filtration and centrifugation. The sludge is sent to external landfilling. This tertiary treatment are according to the emission permit given by the Norwegian Environment Authorities. The permit follows the requirements regarding technology and emission levels in the Best available technology documents for the Pulp and Paper industry given by EU and taken into Norwegian laws. The future trend for the next 1 to two years will probably increase to high, as the granular media filtration plant has more capacity than we utilise today. We have done trials with new effluent streams to the anaerobic secondary treatment, the installation of new effluents will be finished in the 1. half of 2024, and will increase the both the secondary and the tertiary treatment. For Borregaard's operations in Czechia, Germany and the two in USA the COD containing part of the wastewater is treated in third-party biological secondary treatment plant. This treatment and emission levels are according to the emission permit given by the national or local environmental authorities. Change in volumes: 3068(2022)- 2937 (2021) =131 megaliters = 4% change "about the same" Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |

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| | Relevance of treatment level to discharge | Volume (megaliters/year) | of treated | Primary reason for comparison with previous reporting year | % of your sites/facilities/operations this volume applies to | Please explain |
|---|---|-----------------------------|---------------------------------|---|---|---|
| Secondary treatment | Relevant | 0 | About the same | Other, please specify (Same production | 11-20 | Relevant: At Borregaards operation in Norway Tertiary treatment follows after Secondary treatment, thus secondary treated water is not discharged, therefore 0 m3 is selected in the volume column. |
| | | | | process and same product volumes.) | | This volume applies to Borregaard Sarpsborg, 1 of 6 sites = 17% |
| | | | | product roundary | | Secondary treatment: Borregaard in Norway has a wastewater treatment plant based on the anaerobic treatment technology using the Biobed EGSB (Expanded Granular Sludge Bed) process. The compact anaerobic process ensures an efficient reduction of organic matters in the waste water. The process produces biogas which has replaced use of liquid natural gas in the process for drying of lignin. The rationale for using this technology is that it has an effective reduction of low molecular organic material, measured as biological oxygen demand (BOD). The wastewater treatment facility reduces BOD by 98%. The waste water is monitored for COD, BOD, Phosphor, Nitrogen and Copper. This treatment are according to the emission permit given by the Norwegian Environment Authorities. The permit follows the requirements regarding technology and |
| | | | | | | emission levels in the Best available technology documents for the Pulp and Paper industry given by EU and taken into Norwegian laws. Thus Borregaard has permits for the emissions of COD, BOD, Phosphor, Nitrogen and Copper. The emission of these compounds are reported to the Norwegian Environment Authorities. The future trend for the next 1 to two years will probably increase to high, as the treatment plant has more capacity than we utilise today, we have done trials with new effluent streams, the installation of new effluents will be finished in the 1. half of 2024. |
| | | | | | | Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |
| Primary treatment only | Relevant | 1882 | Lower | Increase/decrease in efficiency | 11-20 | Relevant: At Borregaard in Norway primary treatment is used for the waste water from the digester plant. The waste water contains fibre (suspended solids) and has low pH, due to content of sulphur dioxide. The waste water is treated by screening to remove suspended solids and the pH is neutralised with adding NaOH. The technique is according to the best available technique for technique (BAT) standards for the pulp and paper industry. This volume applies to Borregaard Sarpsborg, 1 of 6 sites = 17% |
| | | | | | | Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% |
| Discharge to the natural environment without treatment | he ural ironment nout | | Increase/decrease in efficiency | | Cooling water which is 33767 megaliters or 75% of the discharge to the natural environment without treatment. The rationale for not treating the water is that it is cooling water. The temperature of the cooling water is measured in most effluent streams and it does not affect the temperature in the receiving recipient. The river Glomma is the main receiver of cooling water from our operations and no effect of increased water temperature is registered. Volume is measured for cooling water and reported in our water accounting system. | |
| | | | | | 26% of the water is process wastewater (12806 megaliters). The main part of this water is discharged from our operation at Borregaard in Norway. The main rationale for not treating this water has been that we have not find any water treatment technologies that can be used. Borregaard in Norway cannot use aerobic treatment as a decision from the authorities due to a legionella outbreak in 2005&2008. The waste water is monitored for COD, BOD, AOX, Phosphor, Nitrogen, Copper and some other compounds, and emission level are reported to the authorities. We have plans to reduce the process waste water, both volume of water and the load. In 2024 we will route more waste water to the anaerobic treatment plant. Thus we anticipate that the future trend, 2 to 5 years ahead is that the volume will decrease to lower. Reduction in cooling water volume is motivated by the potential gains associated with energy savings and but the volumes is high, thus the for the threshold selected the cooling water will be about the same for the next 2 to 5 years. | |
| | | | | | | This treatment of cooling water process waste water are according to the emission permit given by the Norwegian Environment Authorities, and follows requirements in the Best available technology documents for the Pulp and Paper industry. |
| | | | | | | Comparison with previous reporting year - threshold: About the same <5%, lower/higher 5-20%, much lower/higher >20%. The threshold is also used for future trend. |
| Discharge to a third party without treatment | Relevant | 1660 | About the same | Other, please specify (Same production process and same product volumes.) | 61-70 | Used process water from the operation in USA (Florida and Wisconsin), is discharged without treatment to the industry waste water treatment plant operated by the nearby pulp and paper mill RYAM (Florida) and Domtar(Wisconsin). The rational of the treatment method for the process water is to reduce the organic material, measured as Biological Oxygen Demand (BOD). The third party company held a permit for BOD. In USA there is a National Pollutant Discharge Elimination System (NPDES), which establishes discharge limits and conditions for industrial and commercial sources with specific limitations based on the type of facility/activity generating the discharge. This is 93 % of the discharge to a third party without treatment. |
| | | | | | | Used sanitary water from the operation in Norway, are sent without treatment to third party urban sanitary treatment facilities. The method has the rationale to treat the water according to the requirements in the permit for emission to water for urban waste water treatment. The third party urban sanitary treatment plant is owned and operated by Sarpsborg community, Alvim sanitary treatment plant. The sewer water is treated for phosphor and organic material (COD). The urban sanitary treatment plant operate according to the permit from the local environmental authorities (County Governor of Oslo og Viken), and the permit is according to the EU Urban waste water treatment directive. This directive is now under revision and the treatment plant will receive a new permit. To meet the new requirements Sarpsborg community are now doing an 1340 mill NOK investment at the Alvim plant, that will be finished in 2025. |
| | | | | | | The water discharge to 3 party is about the same as previous year due to the same production process, and will be about the same for the next 2 to 5 years. |
| | | | | | | Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50% . The threshold is also used for future trend. |

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| | Relevance of treatment level to discharge | Volume (megaliters/year) | of treated volume with | Primary reason for comparison with previous reporting year | % of your sites/facilities/operations this volume applies to | Please explain |
|-------|---|-----------------------------|------------------------|---|--|---|
| Other | Relevant | 3073 | About the same | Other, please specify (Same production process and production volumes) | 11-20 | At Borregaards plant in Norway we have two treatment methods that are classified as other. One method has the rationale to reduce the absorbable halogenated organic component(AOX) in the effluent from the bleaching plant with alkali treatment at high temperature in a reactor. The other method has the rationale to to treat mercury polluted ground water polluted from the former use of mercury in the chlor alkali plant. Ione exchange technology is used to remove the mercury. Treated water from both the technology is monitored for volume of water and content of AOX/mercury after treatment, and are reported to the authorities as required from the the emission permit. Due to a new pipeline to the AOX reactor from the bleaching plant it was possible to increase the amount of treated water The treated volumes is about the same as previous year due to the same production process/ treatment methods. The future trend will be about the same, since we have no further plans for improvement of this technology. Comparison with previous reporting year - threshold: About the same <20%, lower/higher 20-50%, much lower/higher >50%. The threshold is also used for future trend. |

W1.2k

(W1.2k) Provide details of your organization's emissions of nitrates, phosphates, pesticides, and other priority substances to water in the reporting year.

| | water in the | Category(ies) of substances included | List the specific substances included | Please explain |
|-------|--------------|---|---|--|
| Row 1 | | Nitrates Phosphates Priority substances listed under the EU Water Framework Directive | Nitrates as total nitrogen, Phosphates as total phosphorous, heavy metals Arsenic(As), Cadmium (Cd), Copper(Cu), Mercury (Hg), Nickel (Ni), Zinc (Zn) | At Borregaard's plant in Norway, emissions of nitrates, phosphates, and heavy metals as priority substances occur in the river Glomma. Nitrates and phosphates are emitted because they are added to the fermentation process of sugars to produce bioethanol and as nutrients in the biological treatment plant. Additionally, the wood raw material used in Borregaard's biorefinery process naturally contains nitrogen and phosphorus. Cu is emitted because it is used as a catalyst in an oxidation process. The catalyst has a 95% recovery rate, with the remaining percentage ending up in products or as emissions. Hg emissions occur due to pollution from previous activities at the site, mainly affecting groundwater. Special treatment plants remove 99% of mercury from groundwater before it is emitted. The emission of As, Cd, Cr, Ni, and Zn is a result of corrosion and wear in stainless steel equipment and pipelines on the site. Over time, low concentrations of these metals are present in cooling water and process water, which are then emitted. Monitoring of the river Glomma, in accordance with the water framework directive, indicates that the river maintains good chemical conditions for all emissions. However, it falls within a water-stressed area due to emissions of COD. Borregaard has an overall plan to invest in technology to reduce COD emissions, which will also result in a reduction of emissions for some of the aforementioned substances. |

W1.3

(W1.3) Provide a figure for your organization's total water withdrawal efficiency.

| | | Total water withdrawal volume (megaliters) | Total water withdrawal efficiency | Anticipated forward trend |
|---|----------------|--|-----------------------------------|---|
| 1 | 6881000 000 | 54615 | 125991.028105832 | The water withdrawal is expected to be the same or lower in the next 3-5 years. The revenue is expected to increase due to new high end markets for our sustainable products. |
| | | | | Thus, we anticipate that trend for total water withdrawal efficiency the next 3-5 years is increasing. |

W-CH1.3

(W-CH1.3) Do you calculate water intensity for your activities in the chemical sector?

Yes

W-CH1.3a

(W-CH1.3a) For your top five products by production weight/volume, provide the following water intensity information associated with your activities in the chemical sector.

Product type

Specialty organic chemicals

Product name

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Speciality cellulose

Water intensity value (m3/denominator)

87

Numerator: water aspect

Total water withdrawals

Denominator

Other, please specify (TAD (Air-dried ton))

Comparison with previous reporting year

About the same

Please explain

Borregaard is a market and competence driven supplier of high purity specialty cellulose manufactured at our production site in Sarpsborg, Norway. The product Specialty cellulose was chosen because this is one of our main products, both in value and in volume.

The denominator is TAD (Air-dried ton), which is the measure used for selling of specialty cellulose, and is chosen to give a specific indicator for how much water is needed to produces a ton of air-dried product. Total water withdrawal was used to indicate not only process water but also cooling water used to produce cellulose, thus showing the total burden from water withdrawal, and because more efficient cooling process with less water will save energy, and less process water will result in less waste water to collect and treat, the last one is an important part of our strategy to reduce the amount of process water to implement more efficient waste water treatment. Water withdrawal is calculated from measurements in the water accounting system. The water withdrawal is from the river Glomma, and the water is treated in Borregaard's water treatment plant to receive the right quality before it is used.

To decide the trend for water intensity we have evaluated the changes from year to year, to obtain what is normal variation and the accuracy in the dataset from measurements and calculations/assumptions, thus less than 10% change is a about the same level. Comparison with previous reporting year - threshold: About the same <10%, lower/higher 10-30%, much lower/higher >30%

Compared to last year the intensity value is about the same due to normal production years both when it comes to volume of water and of product.

For the future we anticipate that the trend for water intensity will decrease due to our strategy of reduced need for process water in the bleaching plant (Borregaard Norway), which is an important process unit for production of speciality cellulose. Fresh water will be reduced by adding a dewatering unit, thus our strategy of implementing improved waste water technique can be conducted. The production volume is expected to remain the same for the next 3-5 years.

Product type

Specialty organic chemicals

Product name

Lignin biopolymers

Water intensity value (m3/denominator)

55

Numerator: water aspect

Total water withdrawals

Denominator

Other, please specify (mtds (metric tonnes dry substance))

Comparison with previous reporting year

Lower

Please explain

Our lignin-based biopolymers are alternatives to fossil-based chemicals used in a broad range of industries. Lignin biopolymers was chosen because this is one of Borregaards main products, both in value and in volume, and improvement in the environmental impact will contribute significantly to our overall impact. The denominator is mtds(metric tonnes dry substance), which is the measure used in sales of lignin biopolymers, and is chosen to give a specific indicator for how much water is needed to produces a metric ton of dry product. We have used the lignin biopolymers produced at the biorefinery in Norway for this calculation, because the products are produced all the way from wood to specialised biopolymers. By choosing this operation for this calculation we get the full picture for the total water withdrawal intensity used in the production.

Total water withdrawal was selected to indicate the total volume of water, including both process water, cooling water and ejector water from evaporation plant. This is further used internally to produce lignin biopolymers and this results in more efficient cooling process with less water. The results are water and energy savings, and less process water will result in less waste water to collect and treat. The volume of water is calculated from measurements in our water accounting system. The water withdrawal is from the river Glomma, and the water is treated in Borregaard's water treatment plant.

To decide the trend for water intensity we have evaluated the changes from year to year, to obtain what is normal variation and the accuracy in the dataset from measurements and calculations/assumptions, thus less than 10% change is a about the same level. Comparison with previous reporting year - threshold: About the same <10%, lower/higher 10-30%, much lower/higher >30%

Compared to last year the intensity was about the same. The reason was that the both production volume and total water withdrawal remained unchanged For the future we anticipated that the trend for water intensity will decrease in the next 3 to 5 years as a result from our strategy of reduced need for process water due to planned projects, the strategy is to decrease the time the lignin spray dryers is operated on only water and not product and to install a new and more efficient washing filter in the lignin production facility at Borregaard in Norway. The production volume is expected to remain the same for the next years.

Product type

Specialty organic chemicals

Product name

Bioethanol

Water intensity value (m3/denominator)

344

Numerator: water aspect

Total water withdrawals

Denominator

Ton

Comparison with previous reporting year

About the same

Please explain

Borregaard in Norway is a significant producer of advanced bioethanol in Europe, with a capacity of 20 million liters, and is a market leader. The advanced bioethanol is used as biofuel (7 times less climate footprint compared with gasoline), disinfectant, pharmaceutical industry, home and personal care products, paint/varnish, car care. Borregaard has produced bioethanol for more than fifty years as a by-product of our cellulose production at Borregaard's production site in Norway. Bioethanol was chosen because this is one of our main products in value, it has a relatively high water withdrawal intensity. The denominator used is ton produced bioethanol. Total water withdrawal was selected as numerator to indicate the total volume of water, including both process water, cooling water and ejector water and is calculated from measurements in the water accounting system. This metric is used internally, because more efficient cooling process with less water will save energy, and less process water will result in less waste water to collect and treat. The water withdrawal is from the river Glomma, and the water is treated in Borregaard's water treatment plant, the water withdrawal per ton of bioethanol is high compared to lignin biopolymers. The reason for this is that a relatively high amount of cooling water is necessary and the fact that the bioethanol plant produces hot water in addition to bioethanol. Withdrawal of cooling water and ejector water is returned directly back to the river.

To decide the trend for water intensity we have evaluated the changes from year to year, to obtain what is normal variation and the accuracy in the dataset from measurements and calculations/assumptions, thus less than 10% change is a about the same level.

Comparison with previous reporting year - threshold: About the same <10%, lower/higher 10-30%, much lower/higher >30%

Compared to last year the intensity value was about the same. Both the production volume and the water withdrawal volume increased. For the future we anticipated that for the next 2 to 5 years the trend for water intensity will decrease as a result of our strategy of increasing the efficiency of the production of hot water in the bioethanol plant. The hot water is produced from the excess heat in the process, more efficient heat exchangers will reduce the amount of hot water and increase temperature. The production volume is expected to remain the same for the next years.

Product type

Bulk inorganic chemicals

Product name

HCI -hydrochloric acid

Water intensity value (m3/denominator)

22

Numerator: water aspect

Total water withdrawals

Denominator

Ton

Comparison with previous reporting year

Lower

Please explain

Borregaard in Norway produces hydrochloric acid (HCI) in its chloralkaline plant. HCI was chosen because the production requires high volumes of water withdrawal as cooling water. The denominator used is ton produced of HCI (36%), which is the same that is used for selling of the product. Total water withdrawal was selected to indicate the total volume of water and most of the water is used as cooling water. The metric is used internally to track the amount of water that returns to the recipient after cooling. A more efficient cooling process with less cooling water will save energy and improve sustainability of the HCI.

In some addition water withdrawal ends up in the product (HCl 36%) and will be included in the products water consumption. Water withdrawal is calculated from measurements in the water accounting system. The water withdrawal is from the river Glomma, and the water is treated in Borregaard's water treatment plant. To decide the trend for water intensity we have evaluated the changes from year to year, to obtain what is normal variation and the accuracy in the dataset from measurements and calculations/assumptions, thus less than 10% change is a about the same level. Comparison with previous reporting year - threshold: About the same <10%, lower/higher 10-30%, much lower/higher >30%

Compared to last year the intensity value was higher. The reason was decreased production volume due to downtime in production for some periods due to upgrading of the production plant, water withdrawal was at the same level.

For the future we anticipated in the next 2 to 5 years that the trend for water intensity will decrease as a result of our strategy of more efficient production due to ongoing investment in the chloralkaline plant, as a result of the a major investment in increased production capacity and energy efficiency at the electrolysis part in the chloralkaline plant made in 2021 and 2022. The full effect of the investment will be realised in 2023 or 2024. The cooling processes will be more efficient, so that less cooling water is required, and the volume of HCl is expected to increase, as a result of investments for the next years. The measure of success from this activities is when at 10-30% reduction in water withdrawal is achieved.

Product type

Bulk inorganic chemicals

Product name

NaOH - sodium hydroxide

Water intensity value (m3/denominator)

131

Numerator: water aspect

Total water withdrawals

Denominator

Other, please specify (dry metric tonnes)

Comparison with previous reporting year

About the same

Please explain

Borregaard in Norway produces sodium hydroxide(NaOH) in its chloralkaline plant, all of the about 40.000 dry metric tonnes of the NaOH produced, was sold as a product internally to the biorefinery process at Borregaard. NaOH was chosen because the production requires high volumes of water withdrawal as cooling water. The denominator used is dry metrics ton produced of NaOH, which is the same that is used for selling of the product, the denominator selected is used to compare the change in amount of water withdrawals per dry metric tonnes of product produced. Total water withdrawal was selected to indicate the total volume of water, most of the water is used as cooling water that is returned to the recipient after cooling, the water withdrawal is calculated from measurements in the water accounting system. The metric is used internally to track the amount of water that returns to the recipient after cooling. A more efficient cooling process with less cooling water will save energy and improve sustainability of NaOH. Because the NaOH is sold and used as product internally, other products like speciality cellulose produced at Borregaard in Norway will have its environmental footprint from water withdrawal reduced.

To decide the trend for water intensity we have evaluated the changes from year to year, to obtain what is normal variation and the accuracy in the dataset from measurements and calculations/assumptions, thus less than 10% change is a about the same level. Comparison with the reporting year 2021 - threshold: About the same <10%, lower/higher 10-30%, much lower/higher >30% . 2021 is selected as base year, because this is the last year before major upgrade in electrolysis capacity.

Compared to 2021 the intensity value was about the same. There was a slight increase in production volume and reduction in water withdrawal for cooling water. The reduction in intensity falls within the uncertainty of the data, leading to the conclusion that the levels remained approximately the same.

For the future we anticipated that the trend for water intensity will decrease as a result of the a major investment in increased production capacity and energy efficiency at the electrolysis part of the plant, at the chloralkaline plant made in 2021 and 2022. The full effect of the investment will be realised in 2023 or 2024.

The measure of success from this activities is when at 10-30% reduction in water withdrawal is achieved from base year 2021.

W1.4

(W1.4) Do any of your products contain substances classified as hazardous by a regulatory authority?

| | Products contain hazardous substances | Comment |
|-------|---------------------------------------|---------|
| Row 1 | No | |

W1.5

(W1.5) Do you engage with your value chain on water-related issues?

| | Engagement | Primary reason for no engagement | Please explain |
|--|------------|----------------------------------|---------------------------|
| Suppliers | Yes | <not applicable=""></not> | <not applicable=""></not> |
| Other value chain partners (e.g., customers) | Yes | <not applicable=""></not> | <not applicable=""></not> |

W1.5a

(W1.5a) Do you assess your suppliers according to their impact on water security?

Row 1

Assessment of supplier impact

Yes, we assess the impact of our suppliers

Considered in assessment

Basin status (e.g., water stress or access to WASH services)

Supplier dependence on water

Supplier impacts on water availability

Supplier impacts on water quality

Procurement spend

Number of suppliers identified as having a substantive impact

15

% of total suppliers identified as having a substantive impact

1-25

Please explain

In 2022 we perform our yearly assessment of suppliers to determine the impact on water security in our supply chain

Approach: Coverage of 138 suppliers classified strategic, bottleneck or leverage. Grouping suppliers into categories, based on similarities in what they supply. Categories assessed for dependency on water, impact on water- availability and quality, using Little, Medium or Large as ratings. Basin status considered as no significant impact. Actions towards suppliers with substantial impact decided.

Suppliers with substantial impact are wood and energy suppliers, 15 in total. They are associated with our entire business activity, as wood is our essential raw material, and purchased energy (hydro power) is used in the manufacturing process. Hydro power suppliers are highly impacted of water availability as dry years directly impact power prices. Forests help maintain high water quality, influence the volume of available water, and regulate surface and groundwater flows.

(W1.5b) Do your suppliers have to meet water-related requirements as part of your organization's purchasing process?

| | Suppliers have to meet specific water-related requirements | Comment |
|-------|--|---------------------------|
| Row 1 | Yes, water-related requirements are included in our supplier contracts | <not applicable=""></not> |

W1.5c

(W1.5c) Provide details of the water-related requirements that suppliers have to meet as part of your organization's purchasing process, and the compliance measures in place.

Water-related requirement

Complying with a water-related certification

% of suppliers with a substantive impact required to comply with this water-related requirement

51-75

% of suppliers with a substantive impact in compliance with this water-related requirement

51-75

Mechanisms for monitoring compliance with this water-related requirement

Certification

Supplier scorecard or rating

Response to supplier non-compliance with this water-related requirement

Exclude

Comment

Our 2022 assessment of our suppliers we found that 15 suppliers have a substantial impact on water security.

8 of these were suppliers of wood (53%). Borregaard's wood suppliers are requested to operate according to the certification standards PEFC and/or FSC®. And to report the information requested from the standard, including their water related impact and measures, to the certification body. The PEFC standard has 28 requirements which the suppliers of wood must report on, one of them is that sustainable forestry should have no negative impact on the water (river, lakes) in the forests. Being certified is a prerequisite for being a supplier of wood to Borregaard and if not certified Borregaard will exclude the supplier. In 2022 100% of the wood suppliers fulfilled this requirement and no supplier was excluded, hence 53% of the suppliers with a substantive impact were in compliance with this water-related requirement.

Water-related requirement

Other, please specify (Requesting suppliers with substantive impact to provide information about 1) Their water management system in place, 2) Their water related risk and opportunities and 3) Their water usage in m3)

% of suppliers with a substantive impact required to comply with this water-related requirement

26-50

% of suppliers with a substantive impact in compliance with this water-related requirement

26-50

Mechanisms for monitoring compliance with this water-related requirement

Supplier self-assessment

Response to supplier non-compliance with this water-related requirement

Retain and engage

Comment

Our 2022 assessment of our suppliers we found that 15 suppliers have a substantial impact on water security. 8 of these suppliers were requested to comply with the requirement to operate according to the certification standards PEFC and/or FSC® as described above.

The remaining 7 were suppliers of energy and they were requested to comply with the requirement of submitting information about: 1) Their water management system in place, 2) Their water-related risk and opportunities and 3) Their water usage in m3.

5 of the 7 (33%) provided an adequate response. Rather than ending the relation we will continue working with all 7 suppliers, and continue our supplier engagement and try to impact them to address and eradicate negative impacts of their operations on water security.

W1.5d

(W1.5d) Provide details of any other water-related supplier engagement activity.

Type of engagement

Information collection

Details of engagement

Collect water management information at least annually from suppliers

% of suppliers by number

1-25

% of suppliers with a substantive impact

100%

Rationale for your engagement

All our suppliers have to sign our Supplier Code of Conduct (SCoC) inn which we require the supplier to ".....work to achieve energy and water efficiency and minimize harmful discharge, emissions, and waste production in a lifecycle perspective. We shall characterize and treat wastewater and solid waste appropriately, in accordance with applicable laws and regulations." And to ".....agree to communicate the same expectations and requirements described in this SCoC to our own suppliers and business relationships".

In addition we collect water management information annually from a given set of suppliers. We use this latter type of engagement because we believe by requesting additional and more detailed information about how the supplier's water management, raises the awareness about water related issues, and contributes to transparency in the supply chain. It also provides us with information about the maturity of the supplier regarding water related issues and guides us towards which actions to be agreed with the supplier in order to make improvements.

Our coverage are the 15 suppliers which according to our assessment have a substantial impact on water security. The rationale for the coverage is our supplier engagement strategy in which we direct our efforts towards suppliers that represent the most significant risk or opportunity. Out of the 15 suppliers 8 are suppliers of wood, and they have for years reported on their water risk and management annually through the certification schemes PEFC and/or FSC® The remaining 7 suppliers are suppliers of energy. In 2022 we sent out a questionnaire requesting them to respond to

how they manage water in their organization (management system), their risks and opportunities related to water and their water usage.

Impact of the engagement and measures of success

2022 was the first year we collected detailed data about water management system from our energy suppliers. The beneficial outcome of this activity was positive response from suppliers and the additional information we received. The measure of success is the suppliers' response rate. If higher than 70% we count the engagement with suppliers as successful, otherwise we implement suitable actions to improve the response rate. 5 of 7 suppliers responded adequately; a response rate of 70%. Another measure of success are the actions we agree with the suppliers and the achievements following these actions.

Our wood suppliers are requested to operate according to the standards PEFC and/or FEC, and report the information requested from the standard to the certification body, including their water management system. The beneficial outcome of Borregaard requesting certified wood, and consequently the suppliers to report their certification, is that we can impact the water-risk from forestry in the Norway to the better. For the 976.000cbm harvested for the mill in Norway we have a potential impact of water estimated to an area of 500.000 hectare (calculated from a yearly growth of 2cbm/hectare). The total area of productive forest in Norway is 8,3 mill hectare, thus we had in 2022 an impact of engagement on water in forests calculated to 5 % of the productive forest area (calculated from 754.000 cbm bought in Norway in 2022). We use this information to reach our target to buy 100% certified wood, and be sure that all the aspects of the forest are taken care of, including the forests impact on water and role in the water circuit. Another beneficial impact of the certification criteria being fulfilled by our suppliers is that we can use it towards our stakeholders, in particular investors and customers, to document the sustainability impact, including verifying the low negative impact the supply chain of our major raw material has on water. The success is measured by the amount of certified wood we purchase. If the wood we buy is certified, the water impact is taken into account. In 2022, we purchased 98% certified wood, whilst the remaining 2% was controlled in accordance with the PEFC and/or FSC® standards. When the target to increase certified wood from 98% to 100% is achieved, all of our wood suppliers are accounting for their water related impacts, and we will know that they are using the standard required to have a sustainable impact on water from forestry.

Comment

W1.5e

(W1.5e) Provide details of any water-related engagement activity with customers or other value chain partners.

Type of stakeholder

Customers

Type of engagement

Innovation & collaboration

Details of engagement

Collaborate with stakeholders on innovations to reduce water impacts in products and services

Rationale for your engagement

Borregaard recognizes the opportunity to provide specialised lignin-based biopolymer products to B2B customers operating in water-intensive industries such as agriculture, mining, and oilfield. These industries face water-related risks and are increasingly seeking sustainable alternatives. Borregaard views this growing market as a chance to offer solutions that can address these risks. To drive innovation and collaboration in lignin biopolymer applications for water-intensive industries, Borregaard's R&D department has secured 19 MNOK in funding from The Research Council of Norway (RCN). This funding will support partnerships with various universities to explore new and improved solutions. As Borregaard's customers actively engage in innovation and collaboration while selling products to water-intensive industries, this aligns with the relevance of Borregaard's lignin-based biopolymer products, which have the potential to mitigate water-related risks in agriculture, mining, and oilfield applications.

As the project progresses, customer engagement will increase, presenting new and more sustainable applications for lignin-based biopolymer products. The strategy revolves around cooperation between Borregaard's R&D department and universities to drive advancements in lignin biopolymer applications for water-intensive industries. In the mid-term perspective (2030), a projected ramp-up in sales volume is expected from investment in technology for new and improved solutions.

Impact of the engagement and measures of success

The project aims to directly address this innovation-gap between sustainable bio-based and petroleum-based performance additives by understanding:

(1) how to modify lignin to produce new diverse structures and functionality, and;

(2) how to optimize performance in targeted water-intensive applications to get a more sustainable additives. In the mid-term future they represent a positive impact on the price premium for products in this category and a positive impact on the EBITDA for Borregaard. The measure of success is that the capex invested to realise the opportunity will achieve an internal rate of return (IRR) >15% pre-tax.

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts?

Nο

W2.2

(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

| | Water-related regulatory violations | Fines, enforcement orders, and/or other penalties | Comment |
|-------|-------------------------------------|---|---------|
| Row 1 | No | <not applicable=""></not> | |

W3. Procedures

W3.1

(W3.1) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

| | Identification and classification of potential water pollutants | How potential water pollutants are identified and classified | Please explain |
|--------|--|---|--------------------------------------|
| F 1 | classify our potential water pollutants | Borregaard's overall EHS and climate policy guides procedures and practices that contribute to solutions with no significant harm to human health and the environment. Processes to identify and classify potential water pollutants that may have detrimental impacts over water bodies and ecosystems is done according to systematic of a environmental management system, the operation in Norway and Germany is ISO14001 certified. Best available Techniques Reference Document standards(BREF's) are used for emission permit settings in EU/EEA countries, the documents describe different manufacturing processes, their respective operating conditions and emission rates and pollutants that must be regulated, and is an established standard followed by Borregaard to determine the relevant water pollutants. The EU water frame directive is another standard that is used by Borregaard to determine the impact on the receiving water body from the emissions. All our operations have permits from local authorities and programs for measuring all pollutants, stating the metrics, indicators and frequency based on the environmental risk, are installed and reported in the emission accounting system to control the level of pollutants to the requirement in the emission permit. The metrics and indicators used are concentration, emission rates, BOD, COD, phosphates, nitrates, Copper and AOX. Chronic and acute toxicity, persistence organic pollutants or bioaccumulation are not characteristics of the impact. | <not Applica ble></not |

W3.1a

(W3.1a) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your

Water pollutant category

Other nutrients and oxygen demanding pollutants

Description of water pollutant and potential impacts

Effluents of organic material to water, measured as COD (Chemical oxygen demand), impact the water quality in the river Glomma negatively. Borregaards main raw material is wood, the COD stems from washing and processing of the wood rawmaterial into various lignin and cellulose fibre products.

Borregaard and The Norwegian Institute of Water Research (NIVA) monitor the river Glomma in accordance with the requirements and standards in the EU Water Framework Directive (WFD). This monitoring shows that emissions of easily degradable organic matter (COD/BOD) from our biorefinery have caused a proliferation of bacteria covering riverbed sediments close to the plant. This causes poor oxygen conditions, which has implications for the growth of the river Glomma's wild salmon stock. As a result, its ecological status is classified as poor and can be defined as a river with water stress. According to the definition in GRI 3-3, the impact of the effluent on the ecological status of the river is defined as water stress.

(Ref: ISBN 978-82-577-7305-2)

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

Resource recovery

Beyond compliance with regulatory requirements

Please explain

This explanation is for Borregaards operation in Norway.

Beyond compliance:

Best available Techniques Reference Document standards (BREF's) are used for emission permit settings in EU/EEA countries, the documents describe different manufacturing processes, their respective operating conditions and emission rates. Based on the latest review of these standards, Borregaard's operations in Norway received a new discharge permit from 01.07.2019. The new permit (www.norskeutslipp.no) for COD in the effluent is reduced from 69 tonnes to 59 tonnes per 24-hour period (on average over the year) in order to comply with BAT levels for emissions to water. The emission of COD was 52 tonnes per 24-hour period in 2022, which is well below the permit level.

Resource recovery: The avoided COD ends up as products or energy with the use of technologies like improved evaporation and washing techniques. Assessement of storage conditions: Resilience to leakage of COD is enhanced by spill collection systems. This is planned to be further improved to 2025.

Measures

Borregaard will improve the discharge water quality by cutting the effluents of COD more, this will be done both with measures to prevent spillages but also with new treatment techniques. A plan for how to cut the effluents has been sent to the Norwegian Environment Authorities. The measure of success is when COD is reduced in to a 47 tonnes pr day in 2025 compared today level, 52 tons COD/day.

Water pollutant category

Phosphates

Description of water pollutant and potential impacts

Phosphor is a nutrient for living organisms, and occur naturally in our main raw material wood, but is also added in the anaerobic waste water treatment plant and in the ethanol plant the biological process of anaerobic degradation and fermentation.

Phosphor in the waste water can result in eutrophication of the river Glomma.

The eutrophication index, PIT, for periphyton is primarily affected by phosphorus, falling from "Good" ecological status upstream of Borregaard to "Moderate" outside Borregaard. The main reason is assumingly the decay of the thick mats of the bacteria, that release a surplus of nutrients to the periphyton, hence favoring eutrophic species. This is a indirect effect of the organic material in the waste water, thus Borregaard will prioritize the reduction of COD and have less focus on phosphor. (Ref: ISBN 978-82-577-7305-2.)

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Beyond compliance with regulatory requirements

Provision of best practice instructions on product use

Please explain

This explanation is for Borregaards operation in Norway

Beyond Compliance:

Best available Techniques Reference Document standards (BREF's) are used for emission permit settings in EU/EEA countries, the documents describe different manufacturing processes, their respective operating conditions and emission rates. Based on the latest review of these standards, Borregaard's operations in Norway received a new discharge permit from 01.07.2019. Borregaard emission are well below the permit for emission of Phosphor, the permit is 50 kg pr 24-hour period (on average over the year), the emission in 2022 was well below the permit. 20 kg pr 24-hour period.

Provision of best practice instruction on the use of phosphor is used to avoid over dosage of nutrients to the anaerobic treatment plant. Phosphor in the waste water is measured according to the requirement from the Environment Authorities.

Measures

In the recent years we have done several measures to reduce the content of phosphor in our emissions. The major activity was the changes from waste oil to liquid natural gas as support fuel in the bio boiler, waste oil contains phosphor. Since 2010 the phosphor content in the waste water has been reduced by 73%. We have already achieved a lot for our emission reduction of phosphor, our future over measure of success is thus modest, and is achieved when Phosphor is reduced in to a 10 % lower level in 2025 compared today level today (average 20 kg/day to a level below 18 kg/ pr day).

Water pollutant category

Nitrates

Description of water pollutant and potential impacts

The function of nitrogen in waste water is that it is a nutrient for organisms mainly in the sea water. Thus we are not measuring any effect from Nitrogen directly in the river Glomma.

Nitrogen in the waste water to the river Glomma stems from nitrogen containing raw materials.

In the sea there is several sources for nitrogen emission, from communities, industry and farming. The impact of Nitrogen is overstimulation of growth of aquatic plants and algae.

Value chain stage

Direct operations

Actions and procedures to minimize adverse impacts

Beyond compliance with regulatory requirements

Please explain

This explanation is for Borregaards operation in Norway

Beyond compliance:

Best available Techniques Reference Document standards (BREF's) are used for emission permit settings in EU/EEA countries, the documents describe different manufacturing processes, their respective operating conditions and emission rates. Based on the latest review of these standards, Borregaard's operations in Norway received a new discharge permit from 01.07.2019. Borregaard emission are well below the permit for emission of Nitrogen, the permit is 500 kg pr 24-hour period (on average over the year), the emission in 2022 was well below the permit, 320 kg pr 24-hour period.

Measures

Nitrogen in the waste water is measured according to the requirement from the Environment Authorities. Borregaard will reduce the nitrogen level in the effluents further by increased treatment for some of the waste water that have the highest content of Nitrogen.

The measure of success is when Nitrogen is reduced in to a 22 % lower level in 2025 compared today level today (average 321 kg/day to a level below 250 kg/ pr day).

(W3.3) Does your organization undertake a water-related risk assessment?

Yes, water-related risks are assessed

W3.3a

(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.

Value chain stage

Direct operations

Supply chain

Product use phase

Coverage

Full

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment

Annually

How far into the future are risks considered?

More than 6 years

Type of tools and methods used

Tools on the market

Enterprise risk management

International methodologies and standards

Tools and methods used

EcoVadis

WWF Water Risk Filter

ISO 31000 Risk Management Standard

Environmental Impact Assessment

Life Cycle Assessment

IPCC Climate Change Projections

ISO 14001 Environmental Management Standard

Contextual issues considered

Water availability at a basin/catchment level

Water quality at a basin/catchment level

Stakeholder conflicts concerning water resources at a basin/catchment level

Impact on human health

Implications of water on your key commodities/raw materials

Water regulatory frameworks

Status of ecosystems and habitats

Access to fully-functioning, safely managed WASH services for all employees

Stakeholders considered

Customers

Employees

Investors

Local communities

NGOs

Regulators

Suppliers

Water utilities at a local level

Comment

W3.3b

(W3.3b) Describe your organization's process for identifying, assessing, and responding to water-related risks within your direct operations and other stages of your value chain.

| | Rationale for approach to risk assessment | contextual issues | Explanation of stakeholders considered | Decision-making process for risk response |
|-----|---|----------------------|---|--|
| Row | One of our strategic priorities is to work with the value chain to control | Water availability | We assess | Borregaard identifies and assesses water-related risk at asset level within the framework of our |
| 1 | and improve environmental aspects. We represent a water intensive | at a | our | common process for risk. Each member of the Group Executive Management is responsible within |
| | industry, but we produce products that can have positive impact on our | basin/catchment | stakeholders | their respective areas. At company level the Group identifies sources of risk, areas of impacts, |
| | customers processes water intensity. Therefore, we selected the whole | level is selected | view and | events, and potential financial or strategic consequences and implement mitigation activities. The |
| | value chain for our risk assessment. | because | concerns | risk identification work starts with the initiating phase, in this phase of the process, the acceptance |
| | | Borregaard | about water- | criteria associated with the risk is set to ensure the correct probability and consequence scales for |
| | Tools and methods used: | represent a water | related issues | the business. The sequence is then to assess, analyse, plan for initiatives, implement the |
| | Borregaards multi-disciplinary risk management process (ISO31000) | intensive industry. | through | initiatives and review them. To find the severity of the risk, there is a set of predefined criteria for |
| | contribute to the identification, analysis and handling of risks across the | Water quality at a | regular | how risks are assessed using a risk register scale. The probability and the consequence of the |
| | whole value chain, including water-related risks. Water scarcity risks | basin/catchment | dialogue and | risks are rated as "Low", "Medium" or "High" and are visualized in a matrix. Once a risk has been |

| have been evaluated by using The WWF Water risk filter, an | level is selected | evstematic | assessed and analysed as high enquish, the outcome is to implement initiatives to avoid reduce |
|--|--|---------------------------------|---|
| Rationale for approach 1819s, he sweet water risk filter, an established method to review water related risks in areas where we and | Explanation of contextual have | Explanation information | Decision and ring produces for right produce, control or mitigate the risk. As outcome of the risk assessment, the identified risks which have |
| our major suppliers (wood, energy, water, chemicals and transportation) operate. A climate scenario analysis (IPPC climate change projections) | requirement for | stakeholders | substantive impact is presented in an aggregated risk picture covering the entire Group's operations and value chain. The owner of the risk factors implements relevant mitigation strategies |
| has been used to understand how water-related risks in the whole | considered for our products. | selected | and activities and consult the Group Executive Management in the process. This process is |
| value chain can be impacted in the 2030-2050 time horizon. Water- | Stakeholder | because they | relevant for all parts of our value chain. |
| related risks at the operational units and assets are managed within the ISO14001 environmental system. LCA assessment is used for | contlicts concerning water | want products with high | |
| | resources at a | sustainability | |
| production or use of products, and in the communication on water | basin/catchment | profile, water | |
| related risk with our customers. Ecovadis is used for monitoring, among other things, our supplier's performance and water risk and we report to | | related issues like emission | |
| inform the value chain about our performance. | many other | impacts the | |
| | stakeholders | product | |
| Risk classification: decisions are made on the severity of the risks. | recognize water as important | footprint. Employees | |
| | resource and of | are selected | |
| | common interest. | because | |
| | Impact on human health is selected | emissions to water is an | |
| | because | aspect of the | |
| | Borregaard | sustainability | |
| | produces water treatment | profile that make the | |
| | chemicals that | company | |
| | can ensure safer | more | |
| | drinking water. Implications of | attractive and profitable | |
| | water on your key | Investors are | |
| | commodities/raw | concerned | |
| | materials is selected because | that water related issues | |
| | our main raw | can have | |
| | material forests is | impact on the | |
| | to PEFC, which | sustainability profile and | |
| | as certain | future financial | |
| | requirements to | results. | |
| | the vegetation close to lakes and | Local | |
| | creeks. | because | |
| | Water regulatory | Borregaard is | |
| | frameworks is selected because | a cornerstone company in | |
| | EU water | Sarpsborg, | |
| | framework | Norway, and | |
| | directive gives | an important socio | |
| | requirements to achieve good | economic | |
| | ecological status | contributor, | |
| | of the water | negative | |
| | bodies. Status of | impact from emission that | |
| | ecosystems and | can impact | |
| | habitats is | financial | |
| | selected because water is an | results or license to | |
| | important | operate must | |
| | resource to | be avoided. | |
| | produce our products and that | NGOs are selected | |
| | we have products | because they | |
| | that can help our | are concerned | |
| | customers to reduce impact on | about ecosystems | |
| | water - this issue | and the | |
| | is selected as we | impact on | |
| | see that impact on biodiversity | water from industrial use | |
| | become more | and emission. | |
| | and more | Regulators are | |
| | important. Access to fully- | selected because we | |
| | functioning, safely | have regular | |
| | managed WASH | dialogue | |
| | services for all employees is | about the plan for | |
| | selected to make | emission | |
| | sure that this is | reductions to | |
| | valid in the whole value chain and in | water, and future | |
| | line with the high | changes in | |
| | focus Borregaard | emission | |
| | has on human rights. | permit. Suppliers are | |
| | ngno. | selected | |
| | | because they | |
| | | can have | |
| | | impact water when | |
| | | producing raw | |
| | | material for | |
| | | Borregaard - i.e. wood | |
| | | suppliers. | |
| | | Suppliers of | |
| | | technology can help | |
| | | Borregaard to | |
| | | | |

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| Rationale for approach to risk assessment | contextual issues s | Explaination direct Stakeholders Walkingtillings at a local level | Decision-making process for risk response |
|---|---------------------|---|---|
| | a | are selected, pecause there s several local | |
| | a n c | users of water and it could represent conflicting nterest. | |

W4. Risks and opportunities

W4.1

(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes, both in direct operations and the rest of our value chain

W4.1a

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(W4.1a) How does your organization define substantive financial or strategic impact on your business?

To evaluate the **magnitude** of impact on our business at the corporate level we use the effect on the EBITDA. EBITDA is defined by Borregaard as operating profit before depreciation, amortisation and other income and expenses. The **magnitude** of the impact has 3 threshold levels:

Low EBITDA effect: 0-50 mill NOK

Medium EBITDA effect: 50-100 mill NOK

High EBITDA effect: > 100 mill NOK

In 2022 EBITDA was 1,643 mill NOK, a loss in EBITDA of 100 mill, would have reduced the EBITDA margin by 1.5%-points from 23.9% to 22.4 %. A 1.5%-points drop (or increase) in Borregaard's total EBITDA margin from a single indicator is, in the company's opinion, a substantive impact, because this level would probably have influenced our stock price. Borregaard's different business units are closely linked together as they mainly are different parts of the large integrated biorefinery in Norway. As a consequence, it makes sense for Borregaard, as well as for shareholders and customers, to primarily consider the size of the impact on the totality instead of the different business units. The definition is valid for impacts in the whole value chain that the Borregaard Group operates in.

The **probability** of the EBITDA impact above is considered for the following threshold levels:

Low probability: 0-50%

Medium probability: 50-75%

High probability: 75-100%

This is combined to a risk matrix of 3X3, to evaluate the magnitude and the probability of financial impact from water-related risk. The combination of high and medium probability with high EBITDA and the combination of high probability with medium EBITDA is defined as the substantive financial impact. The time horizon of the assessment of the impact covers a period of 3 years ahead of the reporting year (4 years).

Water-related risks are integrated into Borregaard's multi-disciplinary risk management process, and water-related issues are assessed with a **frequency** more than once a year

The threshold for conducting mitigation actions have been set to risks that are defined as having substantive financial impact as defined in the risk matrix. However, mitigation actions could be carried out also below this threshold to avoid a substantial risk in a medium-term and long-term perspective, impacts considered as a substantive financial impact below the threshold value in the short-term period, could have higher impact in longer time horizon.

To identify a substantive **change** in the short-term period, the same risk matrix as described above is used for evaluating the impact from water-related risk. When a risk is moved to the red area, the **change** is defined as substantial.

Borregaard's highest water related risk is the emission of organic material (COD) from the Borregaard manufacturing site in Norway to the river Glomma which has negative impact on the ecological status of the river. A capex plan has been identified in the strategic period to reduce the emission of COD to a level where ecological status will improve, as the emission will be reduced by 20-30%. A substantive change could be if the authorities dose not accept our risk mitigation plan for reduction in emissions, and we have to speed up capex or reduce/change production. Another identified change with substantive impact would be a major spill to water, i.e. hazard risk at pulp mill causing disruption of operations and possible penalties and recovery payments and reputation loss.

The definition of substantial impact applies to the whole value chain. Borregaard suppliers' usage of water in their operations depends the type of raw material/chemical, for our commodities and main raw materials we have several suppliers. In sourcing of wood, Borregaard buy mainly FSC/PEFC forest certificated wood, thus water management is taken care of. In 2022, 98% of wood came from certified sources, and our target is to get all wood as certified.

For water-related risk we have used WWF risk filter for our operations and in addition the topic are included in climate scenario analysis. Many of Borregaards current and future B2B customers sell products/chemcials into water intensive industries like agriculture, mining and oilfield. Borregaard consider this as an opportunity and a growing market for our specialised lignin biopolymer products, as our customers get more aware of the water-related risks and look for more sustainable alternatives, this could represent a long term substantial change in opportunities for new products.

W4.1b

(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?

| | | % company- wide facilities this represents | Comment |
|----------|---|---|---|
| Row 1 | 1 | 1-25 | The number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on our business is 1 of 6 production facilities (17%) in Borregaard. This is the production facility in Sarpsborg, Norway, and represent above 76% of the revenues in the company, and is our main production unit. The production site in Norway has the main withdrawal of water, 95% of the companies total withdrawal, the production site is a biorefinery where water is an important resource in the production process. Water is used for cooling, steam production, washing and transportation of pulp/biomass. |
| | | | The production site in Czechia, Germany and two in USA uses 5% of the total withdrawal of water. The production process is mainly drying of liquid biopolymers in spray driers. At the production site in Florida sufficient amount of ground water from the Floridan aquifer is available. The exposure to water risk and the potential to have substantive or strategic impact from water risk is considered to be low. |
| | | | The potential business impact associated with the site in Sarpsborg results from negative impact the effluent discharge has on ecological status in the river Glomma. According to the EU Water Framework Directive (WFD) the ecological status is classified as poor. |
| | | | The river Glomma also represent a positive business impact, due to the large amounts of water available from the river, water withdrawal is sustainable and represents an opportunity for producing sustainable products, compared to areas in the world where water scarcity is an risk/or increasing risk due to climate change. |

W4.1c

(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on your business, and what is the potential business impact associated with those facilities?

Country/Area & River basin

| A.I. | |
|--------|-------|
| Norway | Gloma |
| 9 | |
| • | |

Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

Production value for the metals & mining activities associated with these facilities

<Not Applicable>

% company's annual electricity generation that could be affected by these facilities

<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities

<Not Applicable>

% company's total global revenue that could be affected

71-80

Commen

The number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on our business is 1 of 6 production facilities (17 % of facilities). This is the production facility in Norway, and represent above 75% of the revenues in the company, and is our main production unit. The production site in Norway, has the main withdrawal of water, 95% of the companies total withdrawal, the production site is a biorefinery where water is an important resource in the production process. Water is used for cooling, steam production, washing and transportation of pulp/biomass.

The production site in Czechia, Germany and two in USA use 5% of the total withdrawal of water. The production process is mainly drying of liquid biopolymers in spray driers. At the production site in Florida sufficient amount of ground water from the Floridan aquifer is available.

The potential business impact associated with the site in Norway, Sarpsborg results from negative impact the effluent discharge has on ecological status in the river Glomma. A capex plan has been identified in the strategic period to reduce the emission of COD to a level where ecological status will improve, as the emission will be reduced by 20-30%. According to the EU Water Framework Directive (WFD) the ecological status is classified as poor. Bad ecological status can be counted as "water stress", because according to the definition, water stress can refer to the availability, quality, or accessibility of water. The long-term goal of the WFD regulation is to achieve a good ecological status in the river Glomma in 2033, thus Borregaard's long term goal is to reduce the ecological water stress, and achieve a good ecological status in the river Glomma in 2033.

The river Glomma also represent a positive business impact, due to the large amounts of water available from the river, water withdrawal is sustainable without any water stress when it comes to availability and accessibility, and represents an opportunity for producing sustainable products, compared to areas in the world where water scarcity is an risk/or increasing risk due to climate change.

W4.2

(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

| Norway | Gloma | |
|--------|-------|--|
| | | |

Regulatory

Regulation of discharge quality/volumes

Primary potential impact

Increased cost of capital

Company-specific description

Borregaard's main site, the biorefinery in Norway generates emissions of organic matter (measured as COD) to the river Glomma. Emissions of organic compounds to water (chemical oxygen demand (COD)) affect the aquatic environment in the river Glomma. The organic material stems mainly from the washing and processing of biomass into advanced products.

The regulatory risk could impact the Capex and our improved sustainability strategy for water-related issues negatively, thus the risk reducing activities and emission reductions of COD is monitored at corporate level.

Discharge quality to the river Glomma is regulated in the emission permit for Borregaard in Norway, which was updated in 2019 and is according to the regulatory demands in the the EU's IPPC directive and described in the relevant BREF standards (Best Available Technique Reference). But regulatory compliance to the EU Water Framework Directive (WFD) is not met, but must be met before 2033. In addition we expect a stricter permit due to revision of environmental regulations under the framework European Green Deal - with it's zero pollution vision for 2050. Borregaard and the Norwegian Institute for Water Research (NIVA) monitor the river Glomma in accordance with the requirements and standards in WFD. This monitoring shows that emissions of easily degradable organic matter (BOD) from Borregaard have caused a proliferation of bacteria covering riverbed sediments close to the plant. This causes poor oxygen conditions, which has implications for the growth of the river Glomma's wild salmon stock. As a result, its ecological status is classified as poor. Due to the ecological status in Glomma and the requirements in WFD, Borregaard has sent a Capex plan to the Norwegian Environment Authorities on how the emission can be cut to a 25-30% lower level in 2025 compared to 2021 (average 55 tons COD/day).

It is to early to tell if the cuts are sufficient to be compliant with the requirement in the WFD and to potential changes in permit due to the revision of environmental regulations, like the Industrial Emission Directive (IED) under European Green Deal. We have started to elaborate how we can reduce the emission of COD further from 2025-2030. One method is evaporation and incineration of the remaining waste water, and reuse the hot water from the evaporation in the production process to save water and energy, this will give additional reduction of COD of in the range 35-50% compared to 2021.

Timeframe

More than 6 years

Magnitude of potential impact

Medium

Likelihood

Likely

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

6250000

Potential financial impact figure - maximum (currency)

1125000

Explanation of financial impact

We have identified several projects, smaller and larger, and in different production units at Borregaard site in Norway, that can reduce emission of COD to the river Glomma. Some projects are in the study phase and some of the project are in the implementation phase for implementation in 2022. There is still some uncertainty both the potential for emission reduction and in the capex. In total it is 6 different project is identified and will be finished before 2025, the emission target of a reduction between 25% to 30 % from the level inn 2021 will be achieved in the end of 2025. The plan is public and is sent to the Norwegian Environmental Authorities.

We have started to investigate the Capex for the next step of emission reduction, with the installation of a "Liquid waste Incinerator" together with evaporation technology with recovery of hot water/Energy for reuse (LIWI). The cost of the LIWI technology is uncertain.

Capex for emission reduction projects installed before end of 2025:

Spill collection in to plants, 2 projects (1 in implementation and 1 in study phase): NOK 15 mill Incineration of waste water in Borregaard waste incineration plant (study phase): NOK 10 mill Improved waste water to anaerobic treatment plant (implementation phase): NOK 5 mill Improved evaporation (implementation phase): NOK 80 mill

New wash filter for improved washing (study phase): NOK 15 mill The total Capex of projects: 15+10+5+80+15= NOK 125 mill

Capex of LIWI total 2022-2027 assumption: NOK 500 mill to NOK 1000 mill

Potential financial impact minimum: 500 + 125 = NOK 625 mill Potential financial impact maximum: 1000 + 125 = NOK 1125 mill

The magnitude of potential impact: Some of the capex for the project is within annual depreciation, capex will have impact on return of capital employed (ROCE) and Earnings before interest, taxes, and amortization (EBITA). It is anticipated that the projects will have their major investment burden in the period 2022-2027. With Borregaard substantive financial impact definition for Borregaard Group the magnitude will be high, as it for some years the investment will sum up to 25% of total investments in the

Primary response to risk

Comply with local regulatory requirements

Description of response

Our response strategy to mitigate the regulatory risk has been to make and investment plan with projects that can reduce emissions of COD from Borregaard in Norway, we expect most of the Capex to be applied in the years 2024-2028. The reductions in emission will follow an annual plan, with 25-30% reduction in end of 2025 and 35-50% in 2030. Our response is underway, planned target for 2022 was achieved with a reduction of 2 tons of COD/day.

Borregaard has established a cross functional team with resources from R&D and process experts from production that have made a plan to reduce the emission of COD to the river Glomma. A steering committee chaired by the Plant Director (Member of Executive Management Group) review the progress at a regular frequency and make investment decisions. We have sent an action plan to the Norwegian Environmental Authorities with estimated capex, effect on COD/emissions and time to implement for for each activity for the activities in the period 2021 to 2025. The team follow the effect of the implementation both with measurement of the actual reduction of COD and measurements of the response for the ecological status. In addition we continue the work with new emission reduction activities and evaluate the potential for further reduction, beyond the activity plan submitted to the Norwegian Environmental Authorities. This will improve our organization's resilience at the site in Sarpsborg and at corporate level since most of our products are produced at the site and water-related environmental impact is an topic of interest of stakeholders like customers and investors.

In our long-term strategic business plan, the financial planning for water-related issue are included. The decision to include reduction in COD in the financial planning is because the Capex will be a substantive part of the investment budget until >2030.

Our response strategy will improve the ecological status in the river Glomma and will have an important contribution to maintaining the Atlantic salmon stock in the river and has a positive contribution to UN Sustainable Development Goal number 14. The implementation of WFD in Norway is organised in local areas that has common interest in a special river or lake area, Borregaard participates in a working group organised by the nearby municipalities, called "Glomma Sør". In this areas water scarcity is identified as low risk, water stress from low ecological status is the main risk.

Cost of response

5400000

Explanation of cost of response

Pre project and project cost including use of consultant for the investment plan for reduction of COD, are a part of the Capex cost, thus not included in the cost of our response. The timescale of the cost of the response is pr year, and the calculations below is the cost in 2021. It is likely that the yearly cost to be at the same level within the next 6 years.

- •Operating cost for R&D running a pilot plan for waste water treatment. One fulltime FTE + operating cost = NOK 1,2 mill pr year
- *Operating cost for monitoring effect of COD in Glomma: Norwegian Institute for Water Research monitor in accordance with the WFD = NOK 0,8 mill pr year.
- Operating costs of a salmon cultivation facility, commitment to 2032: Emissions of COD has caused a proliferation of bacteria covering riverbed sediments, which causes conditions that has implications for the growth of the wild salmon stock = NOK 1mill pr year
- Operating cost in the plant due extra COD measures like extra washing that can increase recipe/product cost (kf) = NOK 2,4 mill pr year (2022)

Total cost of response = 1,2+0,8+1+2.4 = NOK 5,4 mill

W4.2a

(W4.2a) Provide details of risks identified within your value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

| norway Giorna | Norway | Gloma |
|---------------|--------|-------|
|---------------|--------|-------|

Stage of value chain

Supply chain

Type of risk & Primary risk driver

| Acute physical | Flood (coastal, fluvial, pluvial, groundwater) |
|----------------|--|

Primary potential impact

Increased operating costs

Company-specific description

The river Glomma is important for supply by boat of raw materials like salt, wood, limestone, sodium hydroxide and sulphuric acid to Borregaards port Melløs in Norway. Transportation on inland waterways can potentially become more unpredictable in the future because more frequent high-water levels are expected by 2050. In Sarpsborg, where the biorefinery is located, the precipitation will increase through the whole year, and the frequency of the acute physical risk of flooding in the river Glomma will increase (Ref: Vormoor, K., Lawrence, D., Schlichting, L., Wilson, D. & Wong, W.K. (2016). Evidence for changes in the magnitude and frequency of observed rainfall vs. snow melt driven floods in Norway Journal of Hydrology, 538, 33–48, doi:10.1016/j.jhydrol.2016.03.066). The number of days Melløs Port will be closed due to flooding or water flow will increase. Historically the port has been closed in a period in the spring time due to snow melting. With a more wet climate, we expect the periods when the port is closed to increases. The average flow of the river Glomma is 577 cbm/sec, the port is closed in periods when the flow increases to 1500 cbm/sec.

At our production unit in Germany, Karlsruhe, which has transport of raw materials on the river Rhine, we have experienced the opposite phenome to flooding, drought. In dry summers, like 2018, the water level was too low to enable transportation.

Flooding and drought will impact the the logistic cost (operating cost) for the supply of raw materials and lead to delays in the value chain:

- •Ships have to go to other ports, and we will have extra cost from unloading, handling and transportation of the goods by trucks
- •Load factor of ships can decrease and potentially increase the number of shipments from the sourcing locations
- •Shortage/delay in deliveries can result in production downtime

We have already implemented a response strategy with flexible logistics (several transportation routes and transportation modes). As a part of the contingency we have increased storage volume for some of the raw materials in periods with high risks of flooding. This mitigation activities have limited the risk of disruptions in the value chain to low impact at corporate level.

Timeframe

More than 6 years

Magnitude of potential impact

Low

CDF

Likelihood

About as likely as not

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

6400000

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

The potential financial impact is calculated from increased unloading and transportation costs at Borregaard in Sarpsborg, the main production site and the risk of flooding in the river Glomma. Costs will increase, because the Borregaard's port in the river Glomma will be closed more days during the year, not only spring time, but also in autumn. The port closes at a water flow of 1500 cbm/Sec. At the current situation the number of days closed are for the 3 last years 2.87 days in average.

Extra costs for unloading ship in another port downstream the river and transportation to the site in Sarpsborg is in average 200,000 NOK per boat. We assume that number of days increases with 7 days to total of 10 days, and one boat each day in a medium term horizon. Cost calculation: 200,0000 NOK pr Boat * 7 extra days = 1,4 M

Potential increased storage cost close to the plant is estimated to NOK 5 mill /year (rent of more storage capacity).

The total financial impact is then: Increased unloading cost NOK 1,4 mill + Increased storage cost NOK 5 mill = NOK 6,4 mill

Borregaard have different sources for lignin raw material in Europe and North America, so when its not possible to get raw material to the plant in Germany, it is possible to dry the lignin raw material elsewhere, so in this case we have calculated the financial impact of drought in the river Rhine as negligible.

Primary response to risk

| Direct operations | Include in Business Continuity Plan | |
|-------------------|-------------------------------------|--|
|-------------------|-------------------------------------|--|

Description of response

Our response to the risk of increased flooding or drought, is expected to prevent the risk of increased cost from flooding/drought for the existing and future operations, by transferring the risk to other transportation modes and to increase storage volume of raw materials. The response will have increased cost compared to a normal situation, but will have moderate impact compared to the risk of production downtime.

The water security related to flooding, or drought for transportation on inland waterways, can potentially become more unpredictable in the future, thus the mitigation activities will improve the water security for Borregaard. Our response contributes to UN Sustainable Development Goals 'Decent work and economic growth' We consider profitability as a prerequisite in addition to environmental and social dimensions in the sustainability scope and allows investments, R&D and competence development.

Borregaard's primary response for mitigating the risk of increased transport cost of raw materials and chemicals due to acute physical incidents is to have a business continuity plan with alternative logistic solutions, extra capacity to increase storage volumes and alternative suppliers. At the current stage, the response strategy is monitoring and assessing the risk. If the risk materialises further, mitigatory actions will be implemented. In total, Borregaard evaluates the timeframe of response to be more than 6 years.

Example Plan/Activities:

The logistic manager at Borregaard's operations in Sarpsborg, Norway is responsible for the logistics at the site and are responsible for the contingency plan for managing the impact of flooding on our direct operations from supply chain. Planning of storage volume and backup transportation solutions in correlation with the prognoses of water flow in Glomma. This information is received by The Norwegian Water Resources and Energy Directorate, they are monitoring the long term trend (weeks), and will provide Borregaard with prognosis. As alternatives other ports will be used or transportation with rail/truck.

Cost of response

500000

Explanation of cost of response

Cost calculation:

The risk process including insurance cost and the operation of the logistics will be covered within normal operation for logistics. To respond to the contingency plan we have estimated a management cost.

The management cost of handling the contingency plan is estimated to 0,5 FTE which is 500,000 NOK.

Total cost of response: 0,5 FTE*NOK 1 mill = NOK 0,5 mill

W4.3

(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes, we have identified opportunities, and some/all are being realized

W4.3a

(W4.3a) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.

Type of opportunity

Products and services

Primary water-related opportunity

Sales of new products/services

Company-specific description & strategy to realize opportunity

Several of Borregaards current and future B2B customers sell products/chemcials towater intensive industries like agriculture, mining and oilfield. In recent years these water intensive industries experience more pressure to improve the sustainability of their operations, driving them to seek sustainable green chemical alternatives for use in their processes. Borregaard consider this an opportunity for our specialised lignin biopolymer products, and a growing market, as these industries get more aware of the water-related risks and look for more sustainable alternatives. Currently there is lacking tailor-made chemical solutions that can compete with established petrochemical additives on cost-performance metric and meet the high volumes that are required in water-intensive processes.

At corporate level in Borregaard this opportunity is considered as strategic, because specialisation through innovation and market development with continued emphasis on ESG aspects along the entire value chain, including water-related issues is a priority. The opportunity is currently being realized as an innovation project and will have substantive impact on the business from 2030.

The actions being taken to realize the opportunity

- •Engagement with customers that sells products into water intensive industries
- •Research projects together with Universities including funding of the activities.

Example: Action taken to realize the opportunity

In the project LiBan (Lignin-Based Performance Chemicals) Borregaards R&D department, together with different Universities and customers in water intensive industries, will cooperate to find new and more sustainable solutions for water intensive industries like agriculture, water treatment and cleaning. Borregaard was in 2019 granted 19 MNOK from the Norwegian Research council for a 4 year research project to address this challenge. The plan for realization is to finish the research project in 2023. In 2022, work has focused on the first steps of developing new lignin-based performance chemicals for water intensive processes.

The project LIBAN aims to directly address the innovation-gap between sustainable and petroleum-based performance additives by understanding:

- (1) how to modify lignin based biopolymers to produce new diverse structures and functionality, and;
- (2) how optimize performance in targeted water-intensive applications. In the mid-term future they represent a positive impact on the EBITDA.

Estimated timeframe for realization

More than 6 years

Magnitude of potential financial impact

Hiah

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

189000000

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact

There is an estimated ramp up in sales volume in a mid-term time perspective- 2030. The ambition of this project is to increase the speciality lignin portfolio by 15.000 metric tons dry solids (MTDS). The volumes will be introduced stepwise and it is estimated to reach the target volume 6 years after the end of the R&D project, earliest in 2030. Introducing new kinds of technology into major industrial sectors is capital intensive and takes time to realize return on investment. Customers are from large industries and take a long time to implement new technology in their processes, but once this technology is implemented, it is used in the process for the long term. At this early stage of the project – before any new modification technology is tested and verified – the additional contribution margin generated from the project is estimated to be NOK 195 mill. These figures are based on previous experience of introduction of specialty products to other markets. As already described, this portfolio is important not only in terms of value creation, but also in terms of allowing Borregaard to compete in segments typically dominated by synthetic polymers. The volume estimates given in the table below are based on estimates from customer contacts. Net sales are based on prices from competitive products, whilst variable cost are based on initial internal estimation. These values need to be further validated as part of the project.

Calculation of the potential financial impact figure:

- 1. Contribution margin: 17 NOK/kg x 15000 MT 60 mill= NOK 195 mill
- 2. Increased fixed costs: NOK 6 mill
- 3. Net financial impact with effect from 2030: NOK 195 mill NOK 6 mill = NOK 189 mill

W5. Facility-level water accounting

W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Facility reference number

Facility 1

Facility name (optional)

Borregaard Norway

Country/Area & River basin

| NI CONTRACTOR OF THE CONTRACTO | | |
|--|--------|--|
| Norway | Gloma | |
| Homay | dionia | |
| | | |

Latitude

59.277403

Longitude

11.115526

Located in area with water stress

NIC

Primary power generation source for your electricity generation at this facility

-Not Applicables

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

51622

Comparison of total withdrawals with previous reporting year

Lowe

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

51133

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

0

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

433

Withdrawals from third party sources

90

Total water discharges at this facility (megaliters/year)

51434

Comparison of total discharges with previous reporting year

Lower

Discharges to fresh surface water

51318

Discharges to brackish surface water/seawater

0

Discharges to groundwater 0

_.

Discharges to third party destinations

116

Total water consumption at this facility (megaliters/year)

188

Comparison of total consumption with previous reporting year

About the same

Please explain

Withdrawals from fresh surface water is from the river Glomma. The volume of water withdrawal has been at the same level for several years. The third party withdrawal sources' is a municipal supplier, Sarpsborg community and the third party discharge destination is the municipal waste water treatment plant, operated by Sarpsborg community. It is zero volume discharge to brackish surface water/seawater, because the Sarpsborg site has its discharge to the river Glomma, which is 12 km away from the sea. It is sufficient amount of fresh water available from the river Glomma, thus the withdrawal of ground water is zero volume (both reneweable and non-renewable considered). Water consumption is calculated from production volumes times dry matter measurements in the products. Withdrawals, discharges and consumption figures balance.

Comparison of total withdrawals/discharges with previous reporting year - treshold: About the same <5%, lower/higher 5-20%, much lower/higher >20% Comparison of total consumption with previous reporting year - treshold: About the same <20%, lower/higher 20-50%, much lower/higher >50%

(W5.1a) For the facilities referenced in W5.1, what proportion of water accounting data has been third party verified?

Water withdrawals - total volumes

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022" Independent third party: Ernst&Young AS (EY)

Standards:

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information
- GRI. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

GRI indicator for water withdrawal, data verified:

- GRI 303-3 Total water withdrawal, Borregaard Norway (facility 1 in W5.1)

Scope: 100% coverage

Please explain

<Not Applicable>

Water withdrawals - volume by source

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022" Independent third party: Ernst&Young AS(EY)

Standards:

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information
- GRI standards. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

GRI indicator for water withdrawal, data verified:

- GRI 303-3 Total water withdrawal, source river Glomma (=facility 1 in W5.1)

Scope: 100% coverage

Please explain

<Not Applicable>

Water withdrawals - quality by standard water quality parameters

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report on Borregaard ASA's Sustainability reporting for 2022" Independent third party: Ernst&Young AS (EY)

Standards

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information
- GRI standards. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

Scope: 100% coverage

Please explain

<Not Applicable>

Water discharges - total volumes

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022" Independent third party: Ernst&Young (EY)

Standards

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information
- GRI standards. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

GRI indicator for water discharge, data verified:

- GRI 303-4 Total water discharge, Borregaard Norway (facility 1 in W5.1)

Scope: 100% coverage.

Please explain

<Not Applicable>

Water discharges - volume by destination

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022" Independent third party: Ernst&Young (EY)

Standards:

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information
- GRI standard. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

GRI indicator for water discharge, data verified:

- GRI 303-4 Total water discharge, destination river Glomma (facility 1 in W5.1)

Scope: 100% coverage.

Please explain

<Not Applicable>

Water discharges - volume by final treatment level

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022" Independent third party: EY (Ernst&Young)

Standards:

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information.
- GRI standards. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

Data verified: Water accounting Borregaard Norway (facility 1 in W5.1) . Includes volumes to wastewater treatment facilities.

Scope: 100% coverage.

Please explain

<Not Applicable>

Water discharges - quality by standard water quality parameters

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022" Independent third party: Ernst&Young (EY)

Standards

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information
- GRI standard. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

Effluent parameters. Company specific indicators, data verified:

COD, BOD, AOX, suspended solids, phosphor, nitrogen, copper - Borregaard Norway (facility 1 in W5.1)

Scope: 100% coverage.

Please explain

<Not Applicable>

Water consumption - total volume

% verified

76-100

Verification standard used

Verification report: "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022" Independent third party: Ernst&Young (EY)

Standards:

- ISAE 3000. The engagement was conducted in accordance with the International Standard for Assurance Engagements on Assurance Engagements Other than Audits or Reviews of Historical Financial Information
- GRI standards. In preparing the Sustainability reporting, Borregaard ASA applied relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards.

GRI indicator for water consumption, data verified:

303-5 Total water consumption, Borregaard Norway (facility 1 in W5.1)

Scope: 100% coverage.

Please explain

<Not Applicable>

W6. Governance

W6.1

(W6.1) Does your organization have a water policy?

Yes, we have a documented water policy that is publicly available

W6.1a

| | Scope | Content | Please explain |
|-----|----------|-----------------------------------|--|
| Row | Company- | Description of business | We have selected the Company-wide scope, because Borregaard has a company wide EHS and climate policy, which include the water policy (file attached). |
| 1 | wide | dependency on water | The water policy are rooted in the company's business model, corporate culture and values. The aim of the guidelines is to enhance commitment, awareness |
| | | Description of business impact on | and continuous improvement in these areas and determine the company's specific procedures and practices. |
| | | water | |
| | | Commitment to align with | Water has a crucial role in Borregaard's operations, water is a vital resource for transportation, washing and cooling in our industry. Most of our operations are |
| | | international frameworks, | in areas where water is abundant, but water quality is important for the water systems and environment. Borregaard's ambition is to continuously reduce its |
| | | standards, and widely-recognized | business impact on the connected water systems and the company will report on water related issues and measures to our stakeholders. |
| | | water initiatives | |
| | | Commitment to prevent, minimize, | For procurement of our main raw material, wood, we have stated in our policy that our water- standard is to source FSC/PEFC forest certificated wood. In |
| | | and control pollution | 2022, 98% of wood came from certified sources, the target for 2023 is 100% certified wood, thus water-related impact are handled. |
| | | Commitment to reduce water | |
| | | withdrawal and/or consumption | The policy has reference widely-recognized water initiatives, like the European water frame directive (WFD). The policy says that targets and goal for water- |
| | | volumes in direct operations | related risk needs to be identified. Borregaard has identified both short-term and long-term targets for cuts in COD emissions in the discharge effluent to the |
| | | Commitment to reduce water | river Glomma, which is our highest ranged water related risk. |
| | | withdrawal and/or consumption | |
| | | volumes in supply chain | Borregaard has prioritized six of the seventeen Sustainable Development Goals (SDGs), which we commit to align to. SDG12, is selected to emphasize the |
| | | Commitment to safely managed | responsibility for reduced impact on water from our direct operations and SDG 2 for sustainable food production, i.e less impact on water. |
| | | Water, Sanitation and Hygiene | |
| | | (WASH) in the workplace | As a signatory of the UN Global Compact's we follow recognized principles in water stewardship. |
| | | Commitment to water stewardship | |
| | | and/or collective action | In our business model innovation of new sustainable products is a key and in the policy we commit to consider water-related impact in new innovations into our |
| | | Commitment to the conservation of | long-term strategic plans. |
| | | freshwater ecosystems | |
| | | Commitments beyond regulatory | Recognition of environmental linkages due to climate change is fundamental to our business model, and we support international efforts to mitigate climate |
| | | compliance | change. Borregaard recognise that clean water is of substantial importance for societies. |
| | | Reference to company water- | |
| | | related targets | Acknowledgement of the human right to water and sanitation is stated in the company wide Human Right policy (file attached) |
| | | Acknowledgement of the human | Borregaard 2022 Annual report Sustainability report.pdf |
| | | right to water and sanitation | Human Rights Policy 2023.pdf |
| | | Recognition of environmental | Policy - Environment climate health and safety engagement - March 2023.pdf |
| | | linkages, for example, due to | |
| | | climate change | |

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization?

Yes

W6.2a

(W6.2a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for water-related issues.

| Position of individual | Responsibilities for water-related issues |
|--|--|
| or committee | |
| Director on board | The Board of Directors is responsible for the decision of the overall water-related goals at Borregaard in the yearly strategical processes. A water-related decision made by the Director on board is a long-term investment plan to reduce the emission of COD to the river Glomma, to improve the ecological status of the river water and to reach the long term target for ecological status in the river Glomma in 2033. Borregaard has identified both short-term and long-term activities for cuts in COD emissions. A steering committee chaired by the Chief Operating Officer of Borregaard's Sarpsborg site (Member of Executive Management Group), reviews the progress at a regular frequency and make investment decisions. The first goal of complying with the requirements in the new water permit from 2019 has been achieved. The next step involves continous reduction implementing improvements for washing and spill collection in the process. Further treatment includes more R&D activities in the field of sustainable water treatment solutions as well as technological improvements that will have a positive effect on emissions of organic matter to water. Borregaard has sent an action plan to the Norwegian Environmental Authorities with estimated cost, effects on COD/emissions and time to implement for each activity. |
| Chief Operating Officer (COO) | The Chief Operating Officer is responsible for managing and assessing water-related risks and opportunities. The COO is responsible for the companies main water-related challenge, the emission of organic material, COD to the river Glomma. A water-related decision made by the COO has been to mitigate the risk by establishing an action plan to the to the Norwegian Environmental Authorities. To implement the plan resources have been dedicated, a task force has been established and an investment plan has been approved. Process owners are responsible for the reduction of COD within their plant. A steering committee chaired by the Plant Director (Member of Executive Management Group), reviews the progress at a regular frequency, and are responsible for development of a long-term plan for cuts in COD. The progress is evaluated as a part of the management review process. In 2022, Borregaard reduced the emissions of COD from 55 to 54 tonnes/day and finalised the plan for reaching the long-term target for 2030; below 40 tonnes of COD/day. The planned investment represents a 30-50% reduction in effluents to water (COD) compared with 2020. The plan consists of process improvements and installation of novel wastewater incineration, and in addition include measures for significant water reduction. |
| Other C- Suite Officer | Senior Vice President, Organisation and Public Affairs, and member of the Executive Management Group is in charge of the Sustainability board at Borregaard, and responsible for corporate sustainability activities in the company. The Sustainability Board has the responsibility for assessing the Groups initiatives within sustainability including water-related issues and for coordinating this work in the value chain, for presenting progress to the board and for writing Borregaard's Sustainability report. In 2022 several measures has been implemented to strengthen and develop the Groups business model from a sustainable perspective in the whole value chain, both new requirements and criteria for suppliers and the understanding of the sustainability impact of our products in applications that can have impact on improved water quality and water usage. A water related decision made by the Senior Vice President, Organisation and Public Affairs, has been to increase the focus on sustainable communication of the products, life cycle analysis including water usage and water impacts of products, and increased sustainability reporting according to new requirements from stakeholders and in line with the development in the EU Green Deal regulations. An updated and more thorough scenario analysis and TCFD report are example of decisions taken in 2022. Borregaard also expanded the impact analysis and conducted a preliminary assessment report according to TNFD. These measures have been conducted to strengthen and develop the Groups business model from a sustainable perspective in the whole value chain. |

W6.2b

(W6.2b) Provide further details on the board's oversight of water-related issues.

| | Frequency that water- related issues are a scheduled agenda item | Governance mechanisms into which water-related issues are integrated | Please explain |
|-------|--|--|---|
| Rov 1 | v Scheduled - some meetings | Monitoring implementation and performance Monitoring progress towards corporate targets Overseeing major capital expenditures Providing employee incentives Reviewing and guiding annual budgets Reviewing and guiding business plans Reviewing and guiding major plans of action Reviewing and guiding risk management policies Reviewing and guiding strategy Setting performance objectives | The water-related Key Performance Indicators (KPI's) for the Borregaard Group are reviewed in each Board meeting. The KPI's show the Borregaard's progress against goals and targets for addressing water-related issues. In the yearly meeting, the Board decides the overall water-related goals at Borregaard, and monitors the progress towards the mid-term and long term goals. Status of implementation and performance of projects are presented to the Board for approval. The goals, progress and new investment plans are communicated externally in Borregaard's Sustainability report. Strategies, plans, policies and budgets are reviewed in some Board meetings, this also includes water-related issues within these topics. |

W6.2d

(W6.2d) Does your organization have at least one board member with competence on water-related issues?

| | Board member(s) have competence on water- related issues | Criteria used to assess competence of board member(s) on water-related issues | Primary reason for no board-level competence on water- related issues | Explain why your organization does not have at least one board member with competence on water-related issues and any plans to address board-level competence in the future |
|----------|--|---|--|---|
| Row 1 | Yes | We have board members that we consider having competence on climate-related issues. When we are assessing the competencies of board members in relation to climate/forest/water, where we evaluate their relevant education and also their career experience and expertise. We are assessing the competencies case by case, but the overall criteria we are setting for our board representatives are based on their competence in the relevant field (climate, forest and water) based on their past and present responsibility and engagement in similar activities in other companies. | <not Applicable></not | <not applicable=""></not> |
| | | For example, our chairman of the board has climate/forest/water competencies based on their professional experience and the roles they have occupied in similar companies, where this person is the CEO of a company focusing on biocarbon storage. Our chairman of the board has, among other, responsible for climate-related initiatives within energy ('ENØK'), greenhouse gas reduction initiatives and clean processes, and also products, including the importance of how our operations impact water and forests. | | |

W6.3

(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for water-related issues (do not include the names of individuals).

Name of the position(s) and/or committee(s)

Chief Executive Officer (CEO)

Water-related responsibilities of this position

Assessing future trends in water demand

Assessing water-related risks and opportunities Managing water-related risks and opportunities

Monitoring progress against water-related corporate targets

Frequency of reporting to the board on water-related issues

Quarterly

Please explain

Borregaard's main objective is to develop sustainable product with low environmental footprints, this means that the responsibilities for water-related issues have been assigned to the CEO. President and CEO is responsible for both assessing and managing water-related risks and opportunities, including for assessing future trends in water demand to secure the supply of water and for transportation og goods along rivers. Each member of the group Executive Management is responsible for managing of water-related issues within their respective areas. Our highest rated water related risk, the emission of organic material (COD) from to the river Glomma, is within the responsibility of The Chief Operating Officer (COO), reporting to CEO monthly the progress for several operational activities to reduce COD.

W6.4

(W6.4) Do you provide incentives to C-suite employees or board members for the management of water-related issues?

| | Provide | Comment |
|---|---------------|--|
| incentives for | | |
| | management of | |
| | water-related | |
| | issues | |
| Row | Yes | The members of The Group Executive Management have a bonus program, as published in the company's annual report. The bonus elements are linked to the goals of the company and |
| 1 each member has mandatory sustainability target as one of their personal targets. The company has a share option programme with approx. 30 participants every year. | | each member has mandatory sustainability target as one of their personal targets. The company has a share option programme with approx. 30 participants every year. Options can be |
| | | allocated to leading employees who have achieved good results and where the company wants to make a long-term commitment with the employee. Sustainability/ESG performance is |
| | | one of the criteria's for nominating employees for the programme |

W6.4a

(W6.4a) What incentives are provided to C-suite employees or board members for the management of water-related issues (do not include the names of individuals)?

| | Role(s) entitled to incentive | Performance indicator | Contribution of incentives to the achievement of your organization's water commitments | Please explain |
|----------------------------|---|--|---|---|
| Monetary reward | Operating | Improvements in wastewater quality – direct operations Reduction of water pollution incidents Reduction or phase-out of hazardous substances | The incentives have impacted and motivated Borregaard as an organisation to reach the targets and to continue the work on reduction of COD and reduction of pollution incidents and chemical substances to the river Glomma. There have been significant reduction in emissions the latest years. Cupper emissions have been reduced by 33% since 2020 and COD emissions have been reduced by 45% since 2010. | Plant Director of Borregaard's Sarpsborg (COO) site in Norway, member of The Group Executive Management, has a bonus linked to improvements in the wastewater quality. Reduction of pollution incidents and reduction of hazardous chemicals that might affect the river Glomma is also included in this program. In 2022 this bonus program gave around 50.000 NOK. The rational for giving a monetary reward for this is that wastewater quality to the river Glomma is the highest rated water related risk. The emission of organic material (COD), prevention of pollution incidents and prevention of pollution from hazardous substances from Borregaard in Norway to the river Glomma, is within his responsibility. The target that released the monetary reward was that the internal target for the site emission of COD in the wastewater to the river Glomma was achieved. The achievements of the COO are measured by a yearly review in which the agreed goal and objectives are addressed. The thresholds for success are: Outstanding performance: Expected bonus level 7-10%, Good Performance - targets achieved: 4-6% and Low performance - targets not achieved: 0+3%. In 2022 this bonus programme frame was about 5-10% of salary, and he received 50.000 NOK linked to the COD target achieved in 2022 (Result: 54 tonnes COD tons /day, Target: 55 tonnes/day) |
| Non- monetary reward | No one is entitled to these incentives | <not Applicable></not | <not applicable=""></not> | All rewards are considered monetary incentives . |

W6.5

(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?

Yes, trade associations

W6.5a

(W6.5a) What processes do you have in place to ensure that all of your direct and indirect activities seeking to influence policy are consistent with your water policy/water commitments?

Borregaard has a management process in place to ensure a common approach and make sure that our direct and indirect activities that influence policy, are consistent with our overall environmental strategy, including water commitments. Borregaards function Organisation and Public Affairs (SVP) chairs two internal boards; Sustainability Board and Compliance Board. The SVP function performs review meetings of the Business Areas, the biggest production site and various support functions. Based on input from these reviews, in addition to regular reporting of water-related data at company level, the SVP and the Sustainability Board analyse the aggregated plans, composes a recommendation for the Top management and the Group's Board of directors and integrates the topics in the overall strategic business plan which includes the environmental strategy (targets and measures). The SVP and the Compliance Board supports the Top management by reviews, control and raising awareness of compliance matters, including consistency with policies and commitments, reporting on its activity and findings to the Group's Board of directors annually. Borregaard also has an internal management audit process ("Ledelsens gjennomgang") where we gather inconsistencies and implement actions to coordinate the commitment and permits. Nonconformities and observations are dealt with in a management system for corrective and preventive actions.

W6.6

(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?

Yes (you may attach the report - this is optional)
Borregaard 2022 Annual report Sustainability report.pdf

W7. Business strategy

(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

| | Are water- related issues integrated? | Long- term time horizon (years) | Please explain |
|---|--|---|--|
| Long-term business objectives | Yes, water- related issues are integrated | 11-15 | In Borregaards long-term strategic business plan water-related issue is included in achieving long-term business objectives. The water-related issue, emission to water of organic matter, measured as Chemical Oxygen Demand (COD) from the operation at Borregaard in Norway is a main challenge. Monitoring of the river Glomma shows that emission COD influence the ecological status of the river negatively. The objective of the EU Water Framework Directive for this river area (ref: vann-nett.no, ID: 002-3549-R) is to achieve good ecological status before 2033. Our long-term business objectives, is to reduce the emission of COD to the river, to achieve good ecological status in the river before 2033. To achieve the objective we have set reduction target of COD to 30-50% in 2030 (2020). The decision to include COD in our long-term business plan was taken mainly because of regulatory issues, but is an topic of interest of stakeholders like customers and investors. Although Borregaard received a new and stricter water permit which applied from 2019, we expect a stricter permit for emissions to water due to revision of environmental regulations under European Green Deal, which has a zero pollution vision for 2050. Examples of actions taken to integrate COD into the long-term business objective: -Monitor changes in emission regulations under Green Deal -Signed three bilateral multicurrency revolving credit facility agreements linked to objective for reduction of COD |
| Strategy for achieving long-term objectives | Yes, water- related issues are integrated | 11-15 | In Borregaards long-term strategic business plan the strategy of achieving the long-term business objectives of reduction in emission of COD to the river Glomma to achieve good ecological status river before 2033, is included. In addition the strategy includes opportunities for our bio-based product within water-intensive industries. The decision to include reduction in COD and opportunities within bio-based products in our long-term business strategy for achieving long-term objectives was supported by the results from the climate scenario analyses and application of WWF water risk filter to assessment of water scarcity risk. Improved sustainability, included in water-related issues, is a strategic priority in Borregaard. Reduced emissions to water and market potential for new innovations are long-term value drivers in our strategy. The strategy has affected our priorities within investments and resources at the biorefinery in Sarpsborg, both emission reduction activities and innovation of new sustainable product have been affected. Examples of action taken in the long-term water related strategy: In 2021 an investment plan for emission reduction was approved and sent to the Norwegian Environmental Authorities, updated in 2022 with emission target for 2030 Decideated R&D to operate pilot plant to develop measures for emission reduction. Develop technology for water intensive industry. Our LiBan project addresses development of new green high-performance chemicals. |
| Financial planning | Yes, water- related issues are integrated | 11-15 | In Borregaards long-term strategic business plan, the financial planning for water-related issue are included. The decision to include reduction in COD in the financial planning is because the Capex will be a substantive part of the investment budget until >2030. The financial planning has affected our Capex and Opex. Examples of action taken in financial planning of Capex: An investment plan to reduce the emission of COD gradually to Glomma to a level of 30-50 % 2030 (2020) has been approved by The Board of Directors. The plan has been submitted to the Norwegian Environmental Authorities with estimated cost, annually effect on COD and time to implement each activity. Progress in emission of COD is reported to the Board of Directors quarterly. The plan includes investments in improved washing equipment, spill collection, containment, evaporation and incineration. The final goal is good ecological status of the river before 2033. Examples of action taken in financial planning of Opex: Operating cost for monitoring effect of COD in Glomma: Norwegian Institute for Water Research monitor in accordance with the WFD. Operating costs of a salmon cultivation facility, commitment to 2032: Emissions of COD has caused a proliferation of bacteria covering riverbed sediments. This causes conditions that has implications for the growth of the wild salmon stock. Operating cost in the plant due extra COD measures like extra washing that can increase recipe/product cost. |

W7.2

(W7.2) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

Row 1

Water-related CAPEX (+/- % change)

-5

Anticipated forward trend for CAPEX (+/- % change)

50

Water-related OPEX (+/- % change)

-1

Anticipated forward trend for OPEX (+/- % change)

0

Please explain

The CAPEX and OPEX data is calculated for Borregaard in Norway. We selected this scope, because this site has 94% of the water withdrawal and 95% of the water discharge of the total in Borregaard. The site has also the major part of emission of COD to the river Glomma. The CAPEX is the investment in emission reduction to water and other water savings related activities.

The CAPEX was almost the same in 2021 and 2022, due to same activity level. In 2022 we published our plan for how to reduce emissions below 40 ton COD/day for reaching our 2030 emission target. The forward trend for the next 5 years is that the CAPEX will increase with 50%. The OPEX was almost the same in 2022 as in 2021, due to same cost for operation of for the water purification plant and the waste water treatment plant, fees for third party water treatment, cost of analysis of emissions to water and the cost of measuring impact on the river Glomma. We expect the OPEX cost to remain unchanged in the next 5 years.

W7.3

| | Use of scenario analysis | Comment |
|-------|--------------------------|---------|
| Row 1 | Yes | |

W7.3a

(W7.3a) Provide details of the scenario analysis, what water-related outcomes were identified, and how they have influenced your organization's business strategy.

| Type of scenario | Parameters, assumptions, analytical choices | Description of possible water-related outcomes | Influence on business strategy |
|-----------------------------------|--|---|---|
| analysis used | | | |
| Row Water-related Climate-related | Our qualitative and quantitative scenario analysis includes Borregaard's most significant risks towards 2030 and 2050. This is in addition to TCFD's recommendations of including scenarios that explore alternatives that will significantly alter the basis for business-as-usual assumptions in a changing environment and society due to the implications of climate change. Short- medium and long-term time-horizons are relevant to assess and analyse our progress and results of the relevant scenarios. In Norway, where most of Borregaards operations are based, key assumptions on climate change is expected to intensify the global hydrological cycle. This may lead to an increase in the intensity and frequency of hydrological extremes, including floods. Events with heavy rainfall will be more intense and occur more frequently. The median projections for Norway indicate an 18 % increase (span: 7 to 23 %) in annual precipitation towards the end of the century, and a doubling of days with heavy precipitation. Due to a combination of political, geographic, and social factors, the US is recognized as more vulnerable to climate change impacts than Norway, ranked 19th out of 181 countries in the 2020 ND-GAIN Index. The US is also more exposed to natural disasters such as coastal flooding, rising sea levels and hurricanes. Preliminary analyses suggest that rainfall intensity for durations of a few hours may increase by more than 30 %. In river systems dominated by snowmeltfloods, a reduction of up to 50 % is expected in spring floods. In river systems that are dominated by rain floods, the magnitude of floods is projected to increase by up to almost 60 %. | In a business as usual or 4°C scenario, water is a key resource with limited availability. Borregaard's scenario analysis has evaluated future events which in turn could impact Borregaard's operations and value chain such as flooding, heavy precipitation, and sea level rise., which in turn could impact Borregaard's operations and value chain. Flooding is an acute risk due to the geographical locations of Borregaard's sites close to rivers and on the dock, and for the company's transportation routes. High-tide floods are already a familiar problem in many cities on the US coasts. Coastal flooding in the US is projected to start in the 2030s, impacting Borregaard's site in Fernandina Beach. Ingoing and outgoing logistics can be highly impacted, in addition to the damage of equipment. Tropical hurricane events also have a high probability of occurrence in Florida. With increased frequency of strong winds and storm surge, it is likely that the site will be closed more often in the coming years, impacting Borregaard's income. For Fernandina Beach, NASA's Sea Level Projection Tool projects a sea level rise to be 0.15 meters in 2030 both for the well-below 2°C scenario and for the 4°C scenario. In 2050 the NASA tool projects the sea level in Fernandina Beach to rise 0.28 meters for the well-below 2°C scenario and 0.32 meters for the 4°C scenario. | The results of the scenario analysis are used in our short- medium and long-term time-horizons and are used for our strategic planning to understand the risks and opportunities from climate change Borregaards response to the water related outcomes is to make sure that the buildings located in Florida are adapted to mitigate the potential impacts of flooding and tropical storms. This includes e.g. strengthened foundations and enhanced water drainage. The timescale of this specific response is completed, however, Borregaard works continuously to improve and be prior to the potential risk The scenario analysis shows that precipitation in the Nordic areas in Europe will increase, thus we know that electricity from hydro power will be an increasing resource in the future. Borregaard have taken the strategic decision to use more electricity in the production in the plan for our SBT 2030 and 2050 targets. We expect water intense climate change effects such as coastal flooding in the US. Many of Borregaards current and future B2B customers sell products/chemicals to water intensive industries like agriculture and mining. We consider this as an opportunity for our specialised lignin biopolymer products, and a growing market, as our customers get more aware of water scarcity as a probable climate scenario. Our response to this scenario is to innovate lignin biopolymer products that reduces the water consumption and water impact in agricultural and mining industries. |

W7.4

(W7.4) Does your company use an internal price on water?

Row 1

Does your company use an internal price on water?

Yes

Please explain

At our site at Borregaard in Norway that uses 94% of the water withdrawal an internal price on water is used by your organization. We have different cost of cooling water and process water.

Process water 0,78 NOK/m3

Cooling water 0,54 NOK/m3

Compared to the water we are charged from the water treatment plant operated by Sarpsborg community, our own water cost about 20 times less, thus we strive to use as little as possible from the external water source.

The calculation of the water price pr m3 of water is done by taking the actual operating cost for the water treatment plant minus the chemical cost and divide it with the amount of water produced. For 2022 that cost was 0,54 NOK/m3 water. This is the cost for the cooling water. Then we add the cost of chemicals for treatment of the process water and divide on the total volume of process water produced, for 2022 we obtained 0,78 NOK pr/m3.

(W7.5) Do you classify any of your current products and/or services as low water impact?

| | and/or services classified as low water impact | | Primary reason for not classifying any of your current products and/or services as low water impact | |
|-----|---|--|---|--|
| Row | Yes | The classification criteria used to assess the low water impact of Borregaard biochemicals are based on the European Union's 2008 Classification, Labelling, and Packaging Regulation (CLP), which incorporates the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) developed at the UN level. This regulation requires companies to classify, label, and package their substances and mixtures appropriately before placing them on the market, with the aim of protecting workers, consumers, and the environment by providing labels that indicate potential chemical hazards. Under the GHS, chemicals are classified into different environmental hazard categories based on specific criteria and test methods. For water impact, these categories include: 1) Acute Aquatic Toxicity (Category 1-4): This category assesses the potential of a chemical to cause immediate or delayed harm to aquatic organisms, such as fish, invertebrates, and algae, after short-term exposure. 2) Chronic Aquatic Toxicity (Category 1-4): This category evaluates the potential of a chemical to cause long-term or delayed harm to aquatic organisms after repeated or prolonged exposure. For Borregaard's biochemicals, they are classified as non-toxic to water, which is an important feature for their direct use as agrochemicals or as binder in animal feed. This classification is also significant in the circular economy context, as the ability to recycle products is influenced by their toxicity. By classifying their biochemicals as non-toxic substitutes, Borregaard can inform customers and potential customers that these products can be used as alternatives to other harmful chemicals in various applications. The definition used by Borregaard to classify their products/services as having low water impact is based on the absence of an environmental impact classification in the CLP standard. This classification indicates that the biochemicals are non-toxic substitutes and can effectively replace other harmful chemicals. In the case of Borregaa | <not applicable=""></not> | Borregaard products have multiple sustainable features, favourable CO2 footprint, originate from a natural and renewable raw material and can give improved EHS performance in our customers processes, all the aspects are important, including how water quality is impacted from the use of our products. Example: Health, safety and environmental aspects influence customers' purchasing behaviour. Borregaard's wood-based products represent a non-toxic substitute for chemicals with negative health and environmental exposure, including impact on water. Our lignin based biopolymers and cellulose fibrils are examples of products replacing harmful chemicals in applications such as coatings, agriculture and adhesives. The biopolymers from lignin are water-soluble, non-toxic and has a safe to use as dispersant in water soluble systems. |

W8. Targets

W8.1

(W8.1) Do you have any water-related targets?

Yes

W8.1a

(W8.1a) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.

| | Target set in this category | Please explain |
|--|-----------------------------|---------------------------|
| Water pollution | Yes | <not applicable=""></not> |
| Water withdrawals | Yes | <not applicable=""></not> |
| Water, Sanitation, and Hygiene (WASH) services | Yes | <not applicable=""></not> |
| Other | Yes | <not applicable=""></not> |

W8.1b

(W8.1b) Provide details of your water-related targets and the progress made.

Target reference number

Target 1

Category of target

Water pollution

Target coverage

Site/facility

Quantitative metric

Reduction in concentration of pollutants

Year target was set

2020

Base year

2014

Base year figure

69

Target year

2025

Target year figure

47

Reporting year figure

E 4

% of target achieved relative to base year

68.1818181818182

Target status in reporting year

Underway

Please explain

The target was chosen because pollution of organic material, measured as chemical oxygen demand (COD), from the operation of at Borregaard in Norway has negative impact on the ecological status of the river Glomma, thus we plan to reduce the concentration and load of the pollutant COD. In 2021 target was set, this was the same year as we submitted our long-term plan for reduction of COD to water to the Norwegian Environment Agency. The plan includes several measures such as recipe and process optimisation and technical installations like spill collection and evaporation. The level om ambition for the next 3 years is to reduce the concentration and load of COD gradually to achieve the target of 47 tonnes of COD/day at the end of 2025, and to implement the reduction activities according to the plan we have sent. The rationale for the target is also anchored in our strategy to reduce emission of pollutants to water and environmental impact from our operations - thus the impact and emission reductions of COD is monitored at corporate level.

The target covers the site facility in Norway. 2014 is selected as the baseline year, because this was the first full year with operation of the new anaerobic treatment plant at Borregaard in Norway, and a special permit for emission of COD from the Norwegian Environment Agency was given. In 2014 the emission of COD was 69 ton/day, the permit was updated in 2019 to 59 tonnes/day, the emissions of COD is in compliance with the permit for all years. In 2022 has been to continue with our emission reduction plan, and the results on the COD concentration and load are according to the investment plant. Measurements and monitoring of COD concentration are done continuously and the concentration is calculated to load by multiplying concentration with volume of waste water, because the permit is given as load of COD/day. Measurements of the effect in the river on the ecological status is done 2 times per year by a third party.

Target reference number

Target 2

Category of target

Water withdrawals

Target coverage

Company-wide (direct operations only)

Quantitative metric

Reduction in total water withdrawals

Year target was set

2022

Base year

2021

Base year figure

57610

Target year

2025

Target year figure

51849

Reporting year figure

54616

% of target achieved relative to base year

51.9701440722097

Target status in reporting year

Underway

Please explain

Borregaards main operation in Sarpsborg, Norway, has 95% of the water withdrawals, but we have selected a company wide target for our direct operations to ensure focus thought out the whole company. 2021 is selected as a base year, because this was the last year we had a full data set from when the target was set in 2022. About 50 % of the target was achieved for 2021 to 2022 due to increased recycling of condensates and reduced amount of cooling water. Target year 2025 was selected because we have several smaller initiatives ongoing in the different units at the main operations including installations of more equipment to improve measurements and monitor improvements more accurate. We will use this information to develop a long term target for water withdrawal along with our transition plan for reduction of GHG emissions.

Target 3

Category of target

Water, Sanitation and Hygiene (WASH) services

Target coverage

Company-wide (direct operations only)

Quantitative metric

Increase in the proportion of employees using safely managed sanitation services, including a hand-washing facility with soap and water

Year target was set

2013

Base year

2013

Base year figure

99

Target year

2022

Target year figure

100

Reporting year figure

100

% of target achieved relative to base year

100

Target status in reporting year

Achieved

Please explain

The level stays at 100% all the time, because every time we build a new building or buy a new one, we make sure that it has WASH services for employees that is working there. Borregaard head quarter is in Norway where we have over main operations, and Norwegian laws apply (ref Arbeidsplassforskriften § 3-7). 100 % of Borregaard's workers have access to clean water supply, adequate sanitation and hygiene at all times. Facilities are located in areas where sanitation and WASH services are well managed. The monitoring of compliance with WASH service is updated when a new building is finished, and is expected to stay on same level in future, thus the target will remain as status achieved. Year 2013 is selected as base year because this was the first year where the regulation for sanitation and wash service at was mandatory for all Norwegian companies. As the year the target was set, 99% was selected in the base year due to the function of the calculation in the % of target achieved relative to base year column.

Target reference number

Target 4

Category of target

Water pollution

Target coverage

Site/facility

Quantitative metric

Reduction in concentration of pollutants

Year target was set

2022

Base year

2020

Base year figure

57

Target year 2030

2030

Target year figure

40

Reporting year figure

54

% of target achieved relative to base year

17.6470588235294

Target status in reporting year

Underway

Please explain

We have chosen our target based on the negative impact that the pollution of organic material, measured as chemical oxygen demand (COD) concentration and load, is having on the ecological status of the river Glomma in Norway. Our target is to reduce the concentration and load of COD in order to achieve a good ecological status for the river by 2033, as defined by the European Water Framework Directive (WFD). Currently, the status of the river is classified as poor, and the authorities have set a goal to improve it before 2033 (ref: vann-nett.no, ID: 002-3549-R). To have time for the river to recover, we have set our target to be reached in 2030.

In 2022, we finalised a plan to reach our long-term target for 2030, which aims to reduce the COD emissions to below 40 tonnes per day. This target was set because it aligns with our science-based target for reducing GHG emissions and serves as the starting point for our transition plan. By reducing both GHG and COD emissions, we can utilise the organic material (COD) for renewable energy purposes. In 2020, our COD emissions to the River Glomma amounted to 57 tonnes per day.

Since then, we have made progress in reducing COD emissions. In 2022, Borregaard managed to decrease the emissions to the River Glomma from 55 tonnes per day in 2021 to 54 tonnes per day. Continuous measurements and monitoring of COD concentration are carried out, and the concentration is converted to load by multiplying it with the volume of wastewater, as the permit is granted based on the load of COD per day. Additionally, a third party conducts measurements twice a year to assess the impact on the river's ecological status.

To achieve our target, we have developed a comprehensive plan that includes process improvements, the implementation of novel wastewater incineration technology, and measures to significantly reduce water usage. These planned investments aim to reduce effluent discharge to water (COD) by 30% compared to the levels in 2020.

W9. Verification

W9.1

(W9.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1a)?

Yes

EY Independent accountants assurance report sustainability reporting Borregaard ASA 2022.pdf

W9.1a

(W9.1a) Which data points within your CDP disclosure have been verified, and which standards were used?

| Disclosure module | Data verified | Verification standard | Please explain |
|---------------------|---|-----------------------|---|
| W1 Current state | W1.2b: - Water withdrawals, total volumes Borregaard ASA - Water discharges, total volumes Borregaard ASA - Water consumption, total volumes Borregaard ASA | ISAE 3000 | "EY Independent accountant's assurance report Sustainability reporting Borregaard ASA 2022". Ernst&Young (EY) has undertaken a limited assurance engagement of the Borregaard ASA's Sustainability reporting for the period from 1 January 2022 to 31 December 2022. SCOPE EY have been engaged by Borregaard ASA to perform a limited assurance engagement, as defined by International Standards on Assurance Engagements, here after referred to as the engagement, to report on Borregaard ASA's sustainability reporting as defined in the Borregaard ASA's GRI Index (see the document GRI index 2022 on https://www.borregaard.com/sustainability/sustainability-documentation/) (the "Subject Matter") as of 31 December 2022 and for the period from 1 January to 31 December 2022. CRITERIA APPLIED BY BORREGAARD ASA In preparing the Subject Matter, Borregaard ASA applied the relevant criteria from the Global Reporting Initiative (GRI) sustainability reporting standards as well as own defined criteria (the "Criteria"). The Criteria can be accessed at globalreporting.org and in Borregaard ASA's GRI Index and are available to the public. Such Criteria were specifically designed for companies and other organizations that want to report their sustainability impacts in a consistent and credible way. As a result, the Subject Matter information may not be suitable for another purpose. GRI indicators for water and effluents, data verified: GRI 303-3 Total water withdrawal GRI 303-5 Total water withdrawal GRI 303-5 Total water consumption |

W10. Plastics

W10.1

(W10.1) Have you mapped where in your value chain plastics are used and/or produced?

| | Plastics mapping | Value chain stage | Please explain |
|----------|---------------------|-------------------------|--|
| Row 1 | Yes | 1 | Borregaard has mapped that some products that we supply is wrapped in plastic material before it is sent to our customers. The lignin powder we produce is hydroscopic, and to avoid moisture in the powder, we pack the powder in plastic bags, before it is supplied to our customers. |

W10.2

(W10.2) Across your value chain, have you assessed the potential environmental and human health impacts of your use and/or production of plastics?

| Impact assessment | Value chain stage | Please explain |
|-------------------|-------------------------|---|
| | Applica | We expect the potential impact on the environment and human health to be low. The rationale for our assumption is that we are mainly a business to business supplier, and as most of our customers are chemical industry we expect they have waste management system to so that the plastic packing materials are handled we low risk for environment and human health. |

W10.3

(W10.3) Across your value chain, are you exposed to plastics-related risks with the potential to have a substantive financial or strategic impact on your business? If so, provide details.

| | Risk | Value | Type of | Please explain |
|-----|----------|-------------|------------|--|
| | exposure | chain stage | risk | |
| Row | Yes | Supply | Regulatory | Technology related risk: |
| 1 | | chain | Technology | By offering wood-based solutions that replace petrochemical-based |
| | | | | products including bio based plastics, plastic-related risks can represent an opportunity for Borregaard as the demand for biobased plastics will increase. |
| | | | | Regulatory - microplastic related risk: The lignin biopolymers that Borregaards produces are water soluble and not classified as microplastics, and represent and opportunity for Borregaard as several types of polymers can be classified as microplastic. |

W10.4

(W10.4) Do you have plastics-related targets, and if so what type?

| | | Targets in place | Target type | Target metric | Please explain |
|---|-----|--------------------------------|--|--|--|
| ſ | Row | No – but we plan to within the | <not< td=""><td><not< td=""><td>The target could be to reduce plastic waste in direct operations or to see if it is possible to change to other types of packing materials than plastics</td></not<></td></not<> | <not< td=""><td>The target could be to reduce plastic waste in direct operations or to see if it is possible to change to other types of packing materials than plastics</td></not<> | The target could be to reduce plastic waste in direct operations or to see if it is possible to change to other types of packing materials than plastics |
| | 1 | next two years | Applicable> | Applicable> | for some applications, this will be decided during 2023. |

W10.5

(W10.5) Indicate whether your organization engages in the following activities.

| | Activity applies | Comment |
|--|------------------|---|
| Production of plastic polymers | No | |
| Production of durable plastic components | No | |
| Production / commercialization of durable plastic goods (including mixed materials) | No | |
| Production / commercialization of plastic packaging | No | |
| Production of goods packaged in plastics | Yes | Some of the products that we supply is wrapped in plastic material before it is sent to our customers. Lignin powder is hydroscopic, and to avoid moisture in the powder, we pack the powder in plastic bags, before it is supplied to our customers. |
| Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services) | No | |

W10.8

 $(W10.8) \ Provide \ the \ total \ weight \ of \ plastic \ packaging \ sold \ and/or \ used, \ and \ indicate \ the \ raw \ material \ content.$

| | Total weight of plastic packaging sold / used during the reporting year (Metric tonnes) | Raw material content percentages available to report | % virgin fossil- based content | % virgin renewable content | % post-industrial recycled content | % post-consumer recycled content | Please explain |
|---------------------------|---|--|-----------------------------------|---------------------------------|------------------------------------|-------------------------------------|--|
| Plastic packag sold | P. C. C. | <not applicable=""></not> | <not applicable=""></not> | <not Applicable></not | <not applicable=""></not> | <not applicable=""></not> | <not applicable=""></not> |
| Plastic packag used | 1300 ing | % virgin fossil-based content | 100 | <not Applicable></not | <not applicable=""></not> | <not applicable=""></not> | We assume that it is 100% virgin fossil-based content. |

W10.8a

(W10.8a) Indicate the circularity potential of the plastic packaging you sold and/or used.

| | Percentages available to report for circularity potential | | | % of plastic packaging that is recyclable in practice at scale | Please explain |
|------------------------------|---|---------------------------|---------------------------|--|---|
| Plastic packaging sold | <not applicable=""></not> | <not applicable=""></not> | <not applicable=""></not> | <not applicable=""></not> | <not applicable=""></not> |
| Plastic packaging used | % technically recyclable | <not applicable=""></not> | 100 | <not applicable=""></not> | The challenge is that there will be powder and chemicals left on plastic packing material which will make it more demanding to recycle. |

W11. Sign off

W-FI

(W-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

W11.1

(W11.1) Provide details for the person that has signed off (approved) your CDP water response.

| | | Job title | Corresponding job category |
|---|-------|---|-------------------------------|
| 1 | Row 1 | The President and Chief Executive Officer (CEO) | Chief Executive Officer (CEO) |

SW. Supply chain module

SW0.1

(SW0.1) What is your organization's annual revenue for the reporting period?

| | Annual revenue |
|-------|----------------|
| Row 1 | 6881000000 |

SW1.1

(SW1.1) Could any of your facilities reported in W5.1 have an impact on a requesting CDP supply chain member?

Yes, CDP supply chain members buy goods or services from facilities listed in W5.1 $\,$

SW1.1a

(SW1.1a) Indicate which of the facilities referenced in W5.1 could impact a requesting CDP supply chain member.

Facility reference number

Facility 1

Facility name

Borregaard Sarpsborg

Requesting member

International Flavors & Fragrances Inc.

Description of potential impact on member

Borregaard's main impact on water ecosystems stems from our production units. Our largest operational unit,

the biorefinery in Norway, has 95% of our impacts. Please also read our TNFD report that can be found at Borregaards website https://www.borregaard.com/ and https://www.borregaard.com/media/hlelru0z/tnfd-report_2022_final-version.pdf.

Commen

EuroVanillin Supreme is produced at the Borregaard Sarpsborg site.

SW1.2

(SW1.2) Are you able to provide geolocation data for your facilities?

| | Are you able to provide geolocation data for your facilities? | Comment |
|-------|---|---------|
| Row 1 | Yes, for all facilities | |

SW1.2a

(SW1.2a) Please provide all available geolocation data for your facilities.

| Identifier | Latitude | Longitude | Comment |
|------------------------|-----------|------------|---------|
| Borregaard UK | 53.431999 | -2.518186 | |
| | | | |
| Borregaard Czech | 49.717969 | 18.294605 | |
| Borregaard Deutschland | 49.04618 | 8.3127 | |
| Borregaard USA | 44.89155 | -89.623801 | |
| Lignotech Florida | 30.660181 | -81.475165 | |
| Borregaard Norway | 59.277403 | 11.115526 | |

SW2.1

(SW2.1) Please propose any mutually beneficial water-related projects you could collaborate on with specific CDP supply chain members.

SW2.2

(SW2.2) Have any water projects been implemented due to CDP supply chain member engagement?

No

SW3.1

(SW3.1) Provide any available water intensity values for your organization's products or services.

Product name

EuroVanillin Supreme - wood vanillin

Water intensity value

Numerator: Water aspect

Water withdrawn

Denominator

Net fresh water used 83 liter/kg product

Commen

https://www.epd-norge.no/kjemikalier/eurovanillin-supreme-wood-vanillin-article 3445-333.html

Borregaard is the only producer of vanillin from the natural and renewable raw material Norway spruce. Building on six decades of experience Borregaard have developed a wide range of specially adapted varieties of vanillin for different applications. These include food and beverage, flavour and fragrance, personal care and cosmetics, pharmaceuticals, microbiome

and plant-based crop protection products

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

| | I understand that my response will be shared with all requesting stakeholders | Response permission |
|---------------------------------------|---|---------------------|
| Please select your submission options | Yes | Public |

Please indicate your consent for CDP to share contact details with the Pacific Institute to support content for its Water Action Hub website.

Yes, CDP may share our Main User contact details with the Pacific Institute

Please confirm below

I have read and accept the applicable Terms