



storaenso

Stora Enso

ESG Investor presentation

Q4 2020

Disclaimer



It should be noted that certain statements herein which are not historical facts, including, without limitation those regarding expectations for market growth and developments; expectations for growth and profitability; and statements preceded by “believes”, “expects”, “anticipates”, “foresees”, or similar expressions, are forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995. Since these statements are based on current plans, estimates and projections, they involve risks and uncertainties which may cause actual results to materially differ from those expressed in such forward-looking statements. Such factors include, but are not limited to: (1) operating factors such as continued success of manufacturing activities and the achievement of efficiencies therein, continued success of product development, acceptance of new products or services by the Group’s targeted customers, success of the existing and future collaboration arrangements, changes in business strategy or development plans or targets, changes in the degree of protection created by the Group’s patents and other intellectual property rights, the availability of capital on acceptable terms; (2) industry conditions, such as strength of product demand, intensity of competition, prevailing and future global market prices for the Group’s products and the pricing pressures thereto, price fluctuations in raw materials, financial condition of the customers and the competitors of the Group, the potential introduction of competing products and technologies by competitors; and (3) general economic conditions, such as rates of economic growth in the Group’s principal geographic markets or fluctuations in exchange and interest rates.

Megatrends are changing business and society – we contribute to mitigating climate change



We are a solution for consumers' new demands



Everything that's made with fossil-based materials today can be made from a tree tomorrow

Sustainable development is at the heart of our business strategy.

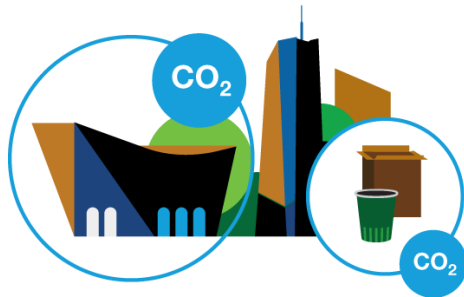
Stora Enso's annual estimated climate impact



Our forests remove carbon¹

-1.5

million tonnes of CO₂



Our products store carbon

-2.6

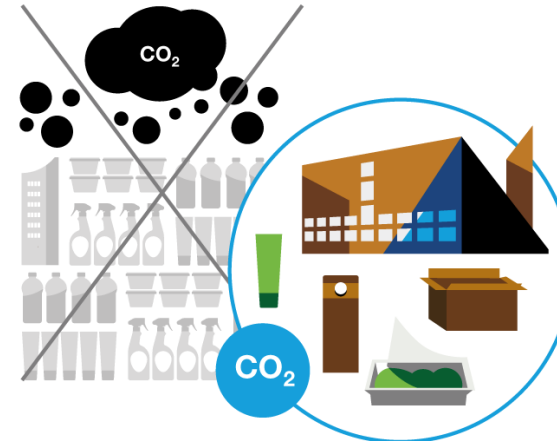
million tonnes of CO₂e



Our value chain emissions²

+10.5

million tonnes of CO₂e



Our products substitute fossil-based products, saving

-17.9

million tonnes of CO₂e



Climate impact³


-11.5

million tonnes of CO₂e


1) Estimated net annual carbon sequestration in own and managed forests and plantations, which provide about 30% of our wood use. Excludes purchased wood. Third-party owned forests that provide Stora Enso's purchased wood are estimated to have an additional net carbon sequestration of -5 million tonnes of CO₂ annually.
 2) Fossil CO₂ emissions in 2019 including direct emissions from our operations, emissions from purchased energy as well as emissions from other sources along our value chain (Scope 1, 2, and 3). Calculated based on the guidance provided by the Greenhouse Gas Protocol.
 3) Negative value indicates a net removal from atmosphere. Calculated by the Swedish University of Agricultural Sciences (SLU) in 2020 based on Stora Enso's production, forest and wood use, and emission figures in 2019: Climate effects of a forestry company – including biogenic carbon fluxes and substitution effects.

Our products solve sustainability challenges




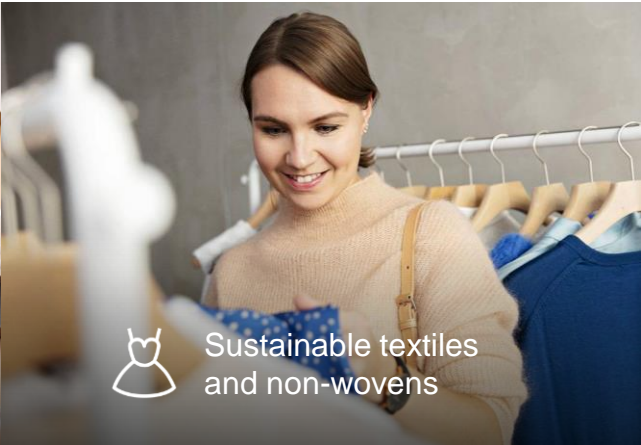
 Replacing plastic in food packaging



 Natural cosmetics & personal care





 Plastic-free e-commerce



 Sustainable textiles and non-wovens




 Circular retail

 Carbon neutral buildings



 Sustainable print



 Low-carbon industrial solutions

Our products have a lower carbon footprint



Carbon footprint of lignin is around 80% lower than the carbon footprint of phenol

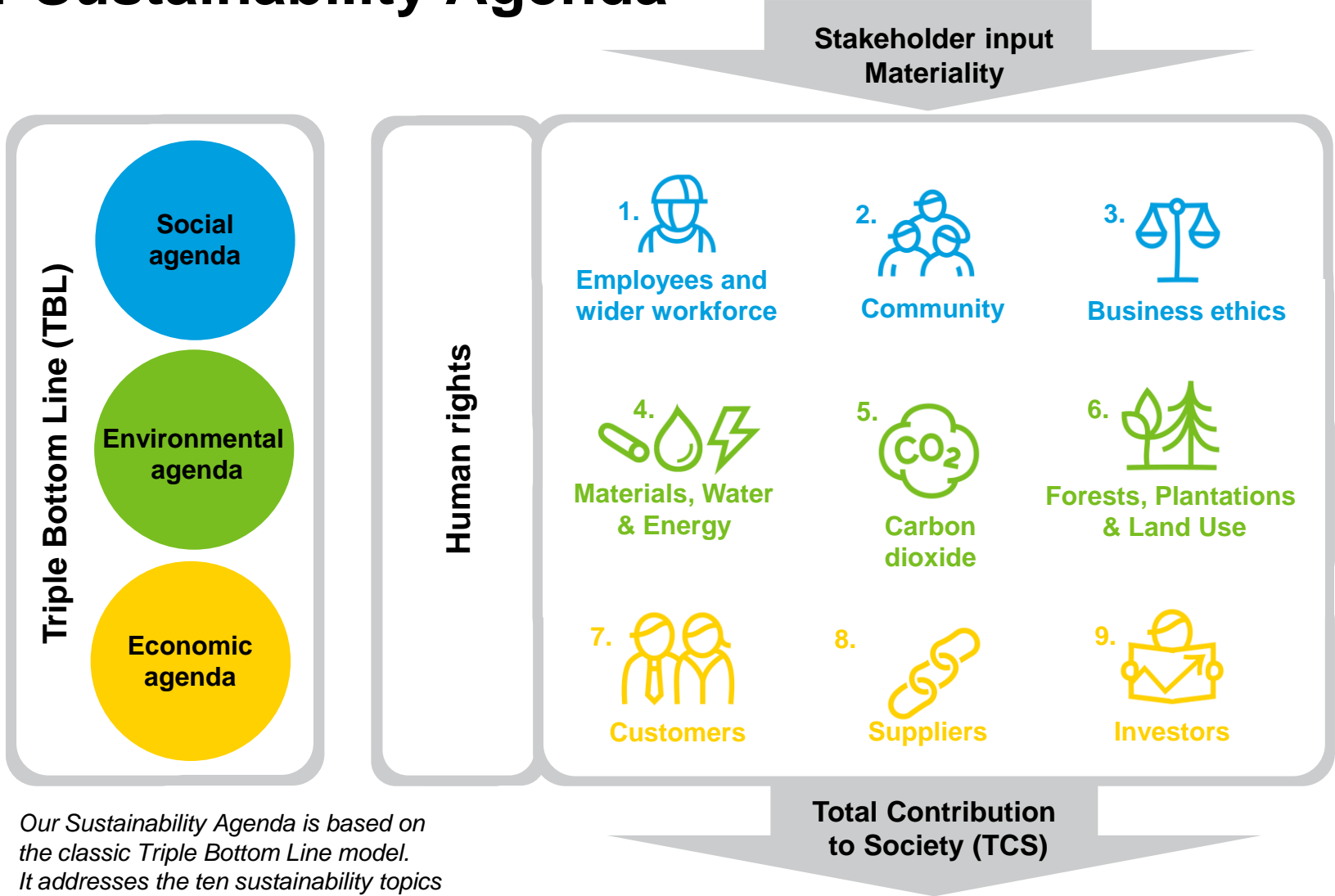
CO₂ emissions of a CLT-frame building are 75% lower compared to a concrete frame building

EcoFishBox by Stora Enso has 30% lower CO₂ emissions than a traditional plastic fish box

Fibre-based beverage carton has 45% lower CO₂ emissions than a PET plastic bottle



Our Sustainability Agenda



Our Sustainability Agenda is based on the classic Triple Bottom Line model. It addresses the ten sustainability topics identified as material to Stora Enso.

Sustainability performance in 2020



Key performance indicator (KPI)		2020	2019	2018	Targets	Progress
	Human rights Implementation of Human Rights due diligence programme	22 out of 24 development actions finalised in Group function processes	24 development actions mapped in Group function processes	Eight highest priority human rights defined	Actions to address the development findings in Group function processes to be completed by the end of 2020	Not achieved
	Employees and wider workforce Total Recordable Incident (TRI) rate ¹	6.1	7.0	6.1	4.7 milestone by the end of 2020 New milestone will be communicated in the Interim Report for Q1 2021	Not achieved
	Leadership Index ²	84	83	83	85 by the end of 2022	In progress
	Community % of working hours and in-kind in community investments (CI) ³	41%	46%	50%	70% by end of 2023 while also increasing the total CI	In progress
	Business ethics Code of Conduct Index ²	86	84	85	Positive trend	Achieved
	Materials, water, and energy Number of significant environmental incidents ⁴	8	9	8	Zero significant incidents	Not achieved
	Materials: Process residuals utilisation rate (%) ⁵	98%	98%	98%	Maintain the high utilisation rate of 98%	Achieved
	Water: Total Water Withdrawal per saleable tonne of board, pulp, and paper (m ³ /tonne)	65	61	56	Decreasing trend from a 2016 base-year (57m ³)	Not achieved
	Water: Process water discharge per saleable tonne of board, pulp, and paper (m ³ /tonne)	31	29	26	Decreasing trend from a 2016 base-year (27m ³)	Not achieved
	Energy: Reduction in electricity and heat consumption per saleable tonne of board, pulp, and paper (kWh/tonne)	0.2%	-3.7% ⁶	-3.8% ⁶	-15% by the end of 2020 from a 2010 base-year	Not achieved
	Energy: Projected Energy Savings % (kWh saved/kWh total used, electricity and heat)	-0.9%	-1.4%	-1.3%	-0.8% annual energy saving until 2030	Achieved
	Carbon dioxide Reduction in CO ₂ equivalents per saleable tonne of board, pulp, and paper (kg/tonne)	-26%	-26% ⁶	-18%	-31% by the end of 2030 from a 2010 base-year	In progress
	Forests, plantations, and land use % of the lands owned or managed by Stora Enso that are in wood production and harvesting covered by forest certification schemes	98%	98%	96%	Maintain the high coverage level of 96%	Achieved
	Suppliers % of supplier spend covered by our Supplier Code of Conduct	96%	96%	95%	Maintain the high coverage level of 95%	Achieved

¹ Number of incidents among our own employees per one million hours worked. Including joint operations Veracel and Montes del Plata.

² Measured in the annual employee survey.

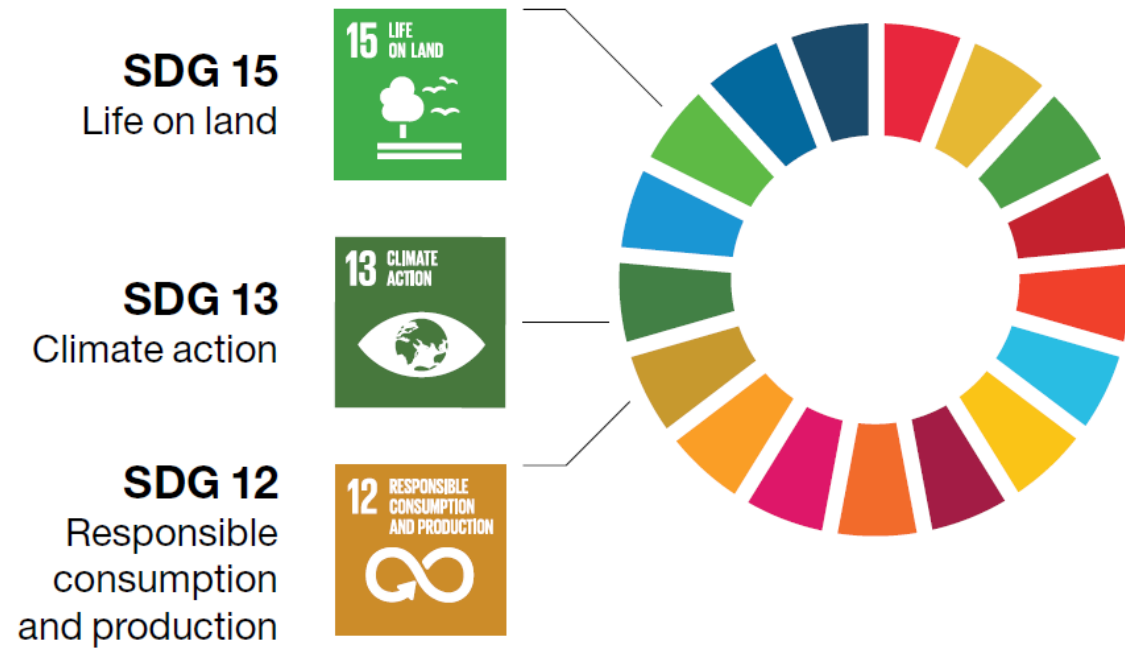
³ Excluding joint operations. Community investments cover cash donations, employee working hours for voluntary community work, and in-kind.

⁴ Environmental incidents involving a non-compliance with environmental legislation or a permit, or a significant stakeholder concern related to environmental performance. For more details, see page 42.

⁵ Utilisation rate for process residuals excluding, for example, tall oil, turpentine, and wood chips.

⁶ Recalculated due to additional data or organisational scope changes after the previous report. Read more about our calculation principles in Reporting scope.

Sustainable business = profitable business... The UN's Sustainable Development Goals (SDGs)



Stora Enso supports all 17 SDGs.

We have identified three strategic goals that our business has the most impact on.

... and we have ambitious reduction targets for CO₂...



SCIENCE
BASED
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

- First forest products company to set externally approved science-based targets
- Targets for our operations
 - Reduce greenhouse gas emissions by 31% per tonne by 2030 vs 2010
- Engagement targets for our suppliers
- Engagement targets for our customers

Q4/2020 Interim Report

	31 Dec 2020	30 Sep 2020	31 Dec 2019	Target	Target to be reached by
Reduction of fossil CO ₂ e emissions per saleable tonne of board, pulp, and paper (kg/t) ^{1,2}	-26%	-25%	-26%	-31%	end of 2030

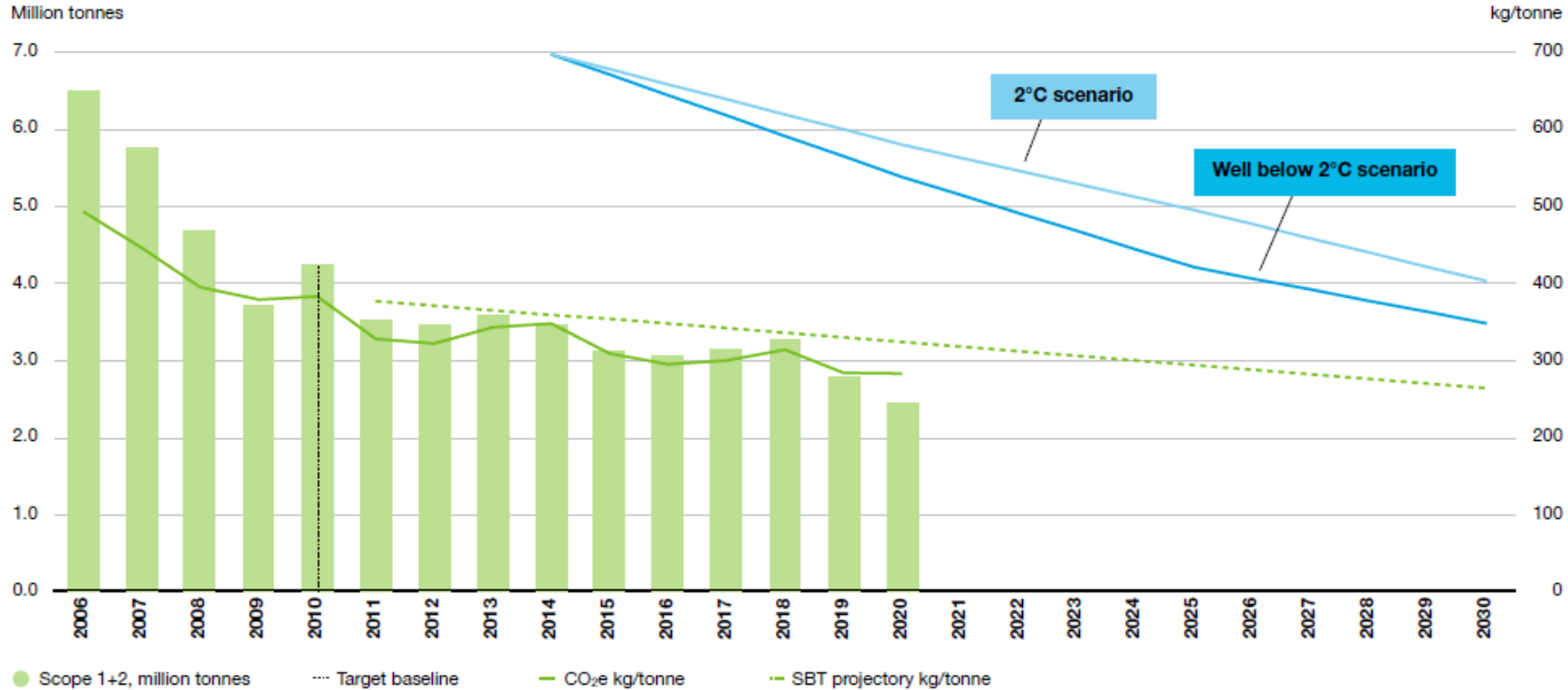
Science-based target (SBT) performance compared to 2010 base-year level¹

¹ Covering direct fossil CO₂-e emissions from production and indirect fossil CO₂-e emissions related to purchased electricity and heat (Scope 1 and 2). Excluding joint operations.

... well below 2 degree scenario



Stora Enso's GHG performance^{1,3} and scenarios for the forest industry²
Greenhouse gas emissions (GHG) in relation to production

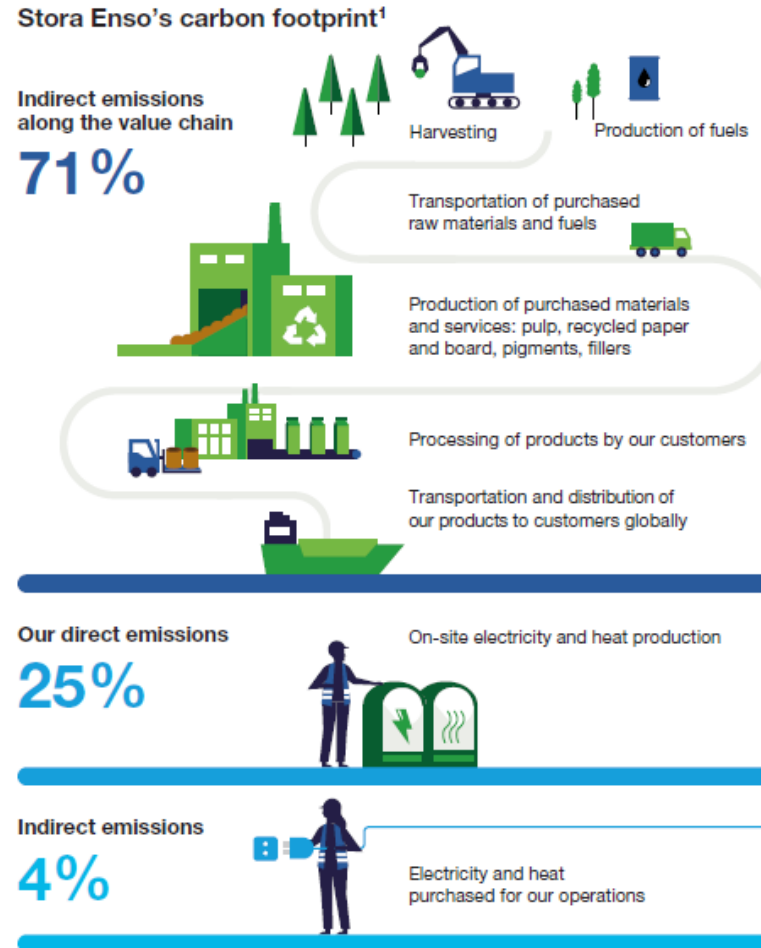


Scope 1+2	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016 ⁴	2017	2018	2019	2020	Target 2030
Million tonnes	6.5	5.75	4.69	3.70	4.22	3.53	3.45	3.59	3.46	3.12	3.05	3.14	3.27	2.77	2.45	
kg/tonne	493	446	395	379	383	328	322	343	348	309	295	300	314	284	283	264

Stora Enso's carbon footprint in 2020



- In 2020, our CO₂e emissions per saleable tonne of board, pulp, and paper were 26% lower than the 2010 benchmark level
- We report on our emissions transparently – Stora Enso is included on CDP Climate List



In 2020, 82% of the total CO₂ emissions from our own operations were carbon neutral

- Scope 1: Direct emissions from our operations.
- Scope 2: Emissions from purchased energy consumed in our operations.
- Scope 3: Emissions from other sources along our value chain.

¹ Covers all Stora Enso production units, a total of 8.83 million tonnes of fossil CO₂ equivalent (9.94 million tonnes in 2019). Excluding joint operations.

*Science-based target (SBT) performance compared to baseline year 2010. Covering direct fossil CO₂ emissions from production and indirect fossil CO₂ emissions related to purchased electricity and heat (Scope 1 and 2).

Forests, plantations & land use – one of the largest private forest owners in the world

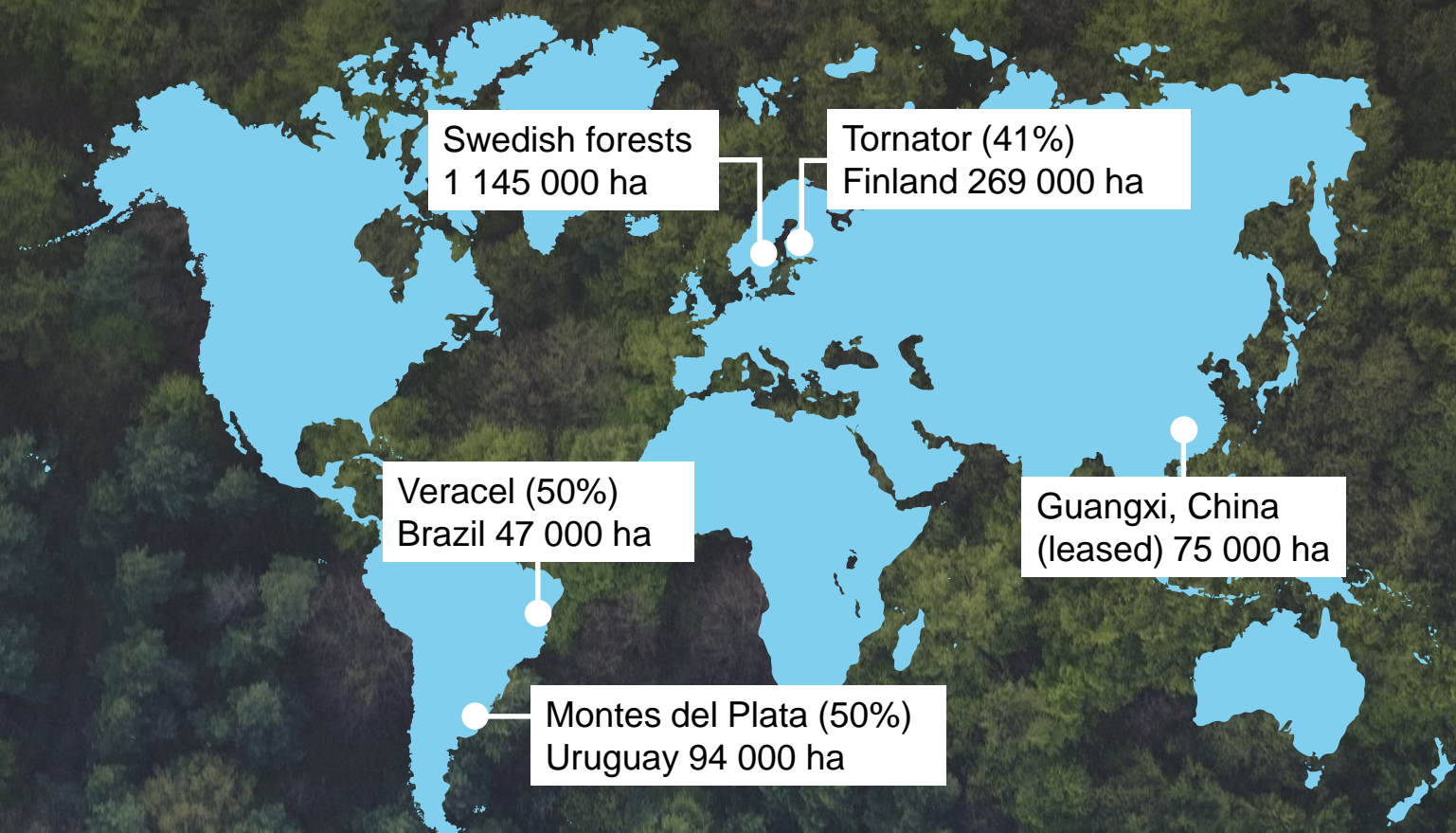
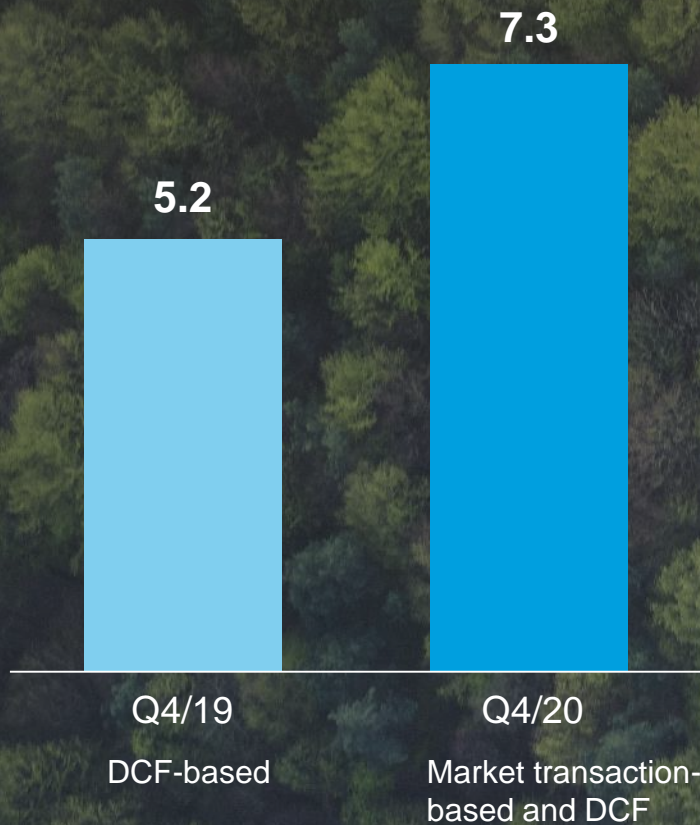


Global forest owner – forest assets fair valuation increased significantly in 2020



Group forest assets
BEUR

Stora Enso productive forest land areas at end of 2020



Veracel – good progress with the Landless movements



- At the end of Q4/2020, 215 hectares or 0.3% of productive land owned by Veracel were occupied by social landless movements
 - Veracel continues recover occupied areas through legal processes
 - Since 2012, Veracel has approved the transfer of app. 20 000 ha of land to benefit landless people
- At the end of 2020, Veracel owned 213 000 hectares, of which 82 000 hectares are planted with eucalyptus for pulp production



Q4/2020 Interim Report

Agreements with social landless movements and land occupations in Bahia, Brazil

	31 Dec 2020	30 Sep 2020	31 Dec 2019
Productive area occupied by social movements not involved in the agreements, ha	215	215	470

Water – using natural resources with care



- Water availability is a global challenge and plays a central role in our production
 - We constantly strive to reduce its use
- Almost 97% of the water we withdraw from nature is released back to the environment
 - We ensure the water is purified and safe
 - Water is recycled within the mill where feasible, reducing the need for water intake
- Production at Stora Enso’s mills requires large amounts of water
 - Only around 3% is consumed in our production processes
- Our objective is to drive down the total water withdrawal per saleable tonne at our board, pulp and paper mills

Community investment – engaging with numerous local communities around the world



- Our operations are often in rural communities that form an important stakeholder group
- We strive to maximise our positive contribution through investments in
 - Capacity building, local sourcing, nature conservation, agroforestry
- We manage our community impacts with
 - Due diligence and impact assessments
 - Responsible restructuring
- Total voluntary community investment 2.7 MEUR in 2020



¹Total community investment including cash, working hours, and in-kind as defined in the B4SI framework. Including 50% of joint operations Veracel in Brazil and Montes del Plata in Uruguay. ² Resilient local communities include B4SI framework areas of Economic development, Social welfare, Healthy lifestyle and Arts and Culture.

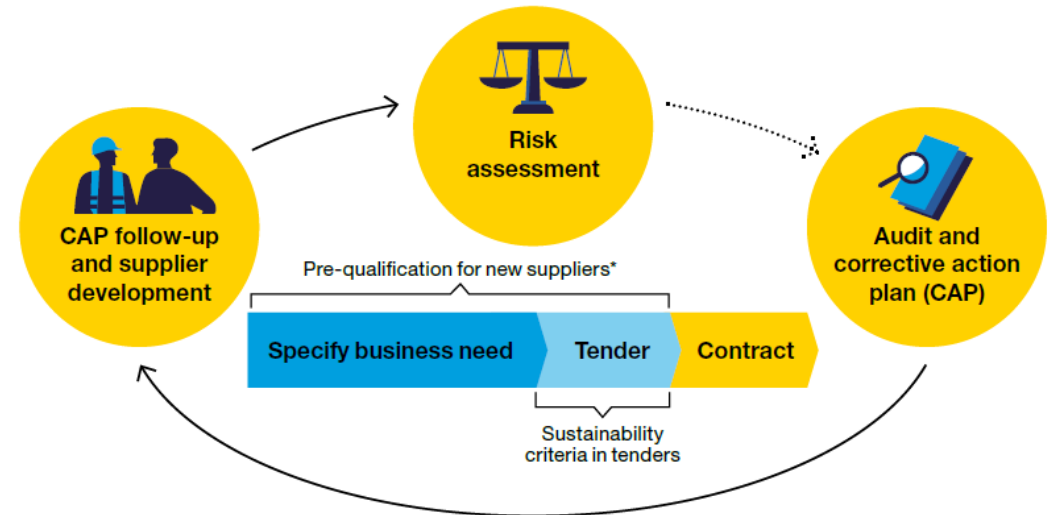
Responsible sourcing – 96% of supplier spend covered by Supplier Code of Conduct



- We ensure that our suppliers are committed to high sustainability standards
- Stora Enso has a rigorous supplier approval process
 - 96% of our supplier spend is covered by signed Supplier code of conduct, SCoC (Q4/2020)
 - SCoC was updated in 2020 – applies to all sourcing categories globally
- We engage with suppliers and help them to address sustainability topics

Our process for responsible sourcing

Risk assessments and audits can be conducted prior to pre-qualification and at any stage of the supplier contract.



* Not all pre-qualified suppliers enter our sourcing process.

Q4/2020 Interim Report

Implementation of the Supplier Code of Conduct

	31 Dec 2020	30 Sep 2020	31 Dec 2019	Target
% of supplier spend covered by the Supplier Code of Conduct ¹	96%	97%	96%	95%

1) Excluding joint operations, intellectual property rights, leasing fees, financial trading, and government fees such as customs, and wood purchases from private individual forest owners.

Promoting inclusion and diversity – committed to ensure healthy and safe workplace

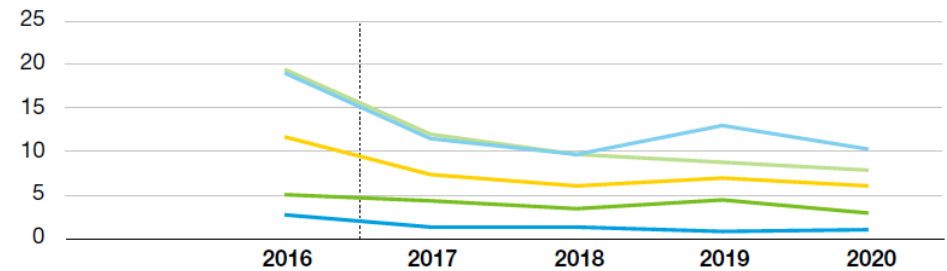


- The health and safety of Stora Enso’s employees is a key priority
- Goal is to provide an accident free and inclusive workplace
- TRI rate in 2020 was 6.1 (7.0)
- Closely monitoring the Covid-19 situation globally and take action to secure the health and safety of our employees and others working on our premises



Total recordable incident rates (TRI) 2016-2020

Total recordable incident rates (TRI)^{1 2}
 Number of incidents among our own employees per one million hours worked

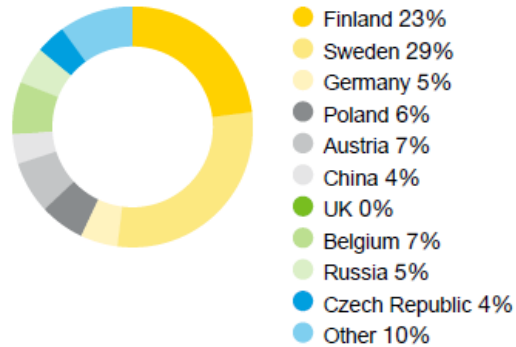


China	2.8	1.4	1.4	0.9	1.1
Finland	19.0	11.5	9.7	13.0	10.3
Poland	5.1	4.4	3.5	4.5	3.0
Sweden	19.4	12.0	9.7	8.8	7.9
Group	11.7	7.4	6.1	7.0	6.1

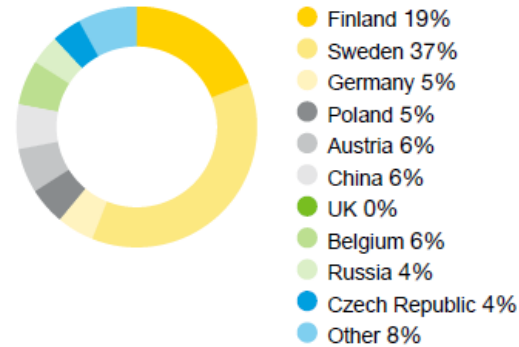
Stora Enso as tax payer



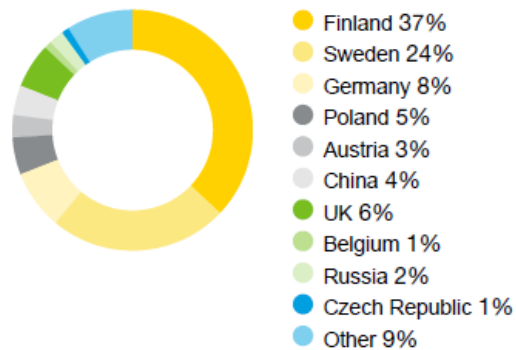
Total taxes borne 2020



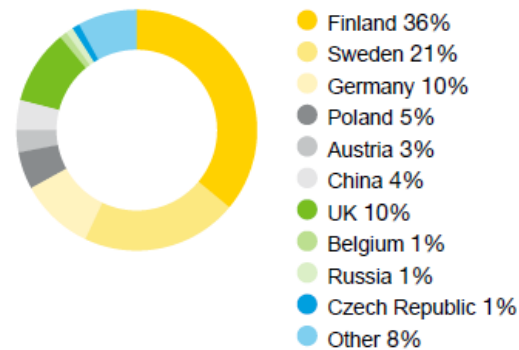
Total taxes borne 2019



Total taxes collected 2020



Total taxes collected 2019



- Stora Enso’s operations generate value through taxes for governments around the world
- In 2020, Stora Enso paid again app. EUR 1 billion into public sectors, including EUR 611 million in collected taxes
- Stora Enso aims to be transparent with respect to economic value generation
- Stora Enso makes a voluntary commitment to openly provide details of the taxes paid by the group to governments in its main countries of operation
 - This commitment to our stakeholders is fully in line with Stora Enso’s values to ‘Do what’s right’ and ‘Lead’

SASB reporting started in 2020



- Stora Enso started to report in 2020 against the Standards by the Sustainability Accounting Standards Board (SASB) which aims to improve sustainability reporting for investors
- Relevant standards within SASB's Renewable Resources & Alternative energy section
 - Forest Management
 - Pulp & Paper Products
- Specific indicators in these two Standards relate to financially material topics in the industry such as sustainable forest management and certification, GHG emissions, air quality, energy management, water management and supply chain management



SASB is an independent non-profit organisation that develops its standards based on extensive feedback from companies, investors and other market participants as part of a transparent, publicly-documented process.

Link to SASB online index:

https://www.storaenso.com/-/media/Documents/Download-center/Documents/Annual-reports/2020/STORAENSO_SASB_2020.pdf

Sustainability in our funding and reporting



Revolving Credit Facility with a green aspect

Pricing includes sustainability component based on ability to reduce greenhouse gas emissions.



Green Bond Framework

A loan-format to support sustainability-focused fixed income investors and to report environmental impacts.



Green Bonds

EUR 1 506 million total amount of Stora Enso's outstanding green bonds



Sustainable Finance strategy

The aim is to influence and develop the financial markets and to secure funding partners with sustainability agenda.



Climate-related financial disclosure

CFO support for better disclosure of climate risks and opportunities based on recommendations by the Financial Stability Board's Task Force on Climate-related Financial Disclosures (TCFD).



Integrated reporting

The World Business Council for Sustainable Development (WBCSD) Redefining Value Board and programme: work on international reporting frameworks, materiality assessment standards, and data assurance methodologies.



External recognition in 2020



ESG indices and other external recognition in 2020



Euronext Vigeo
Stora Enso is listed in the Euronext Vigeo Europe, and Eurozone 120 indices as one of the 120 most advanced companies in terms of environmental, social, and governance (ESG) performance.



STOXX ESG indices
Stora Enso is included in several STOXX ESG indices. These indices rate leading global companies according to ESG criteria.



ReportWatch/Comprend
Stora Enso's Annual report 2019, including the Sustainability report, received the highest A+ ranking among more than 300 reports globally.



MSCI
In 2020, Stora Enso maintained a rating of AA in the MSCI ESG Ratings assessment. Stora Enso is included in several of MSCI's ESG indices.



ISS ESG
Stora Enso rated "Prime" with a rating of B- by the ISS ESG Corporate Rating regarding sustainability performance. Score by the Institutional Shareholder Services (ISS).



WBCSD
Stora Enso's Sustainability Report 2019 was included in the top ten sustainability reports globally according to the 2020 Reporting matters publication by the World Business Council for Sustainable Development (WBCSD).



ECPI Ethical Indices
Stora Enso is included in the ECPI EMU Ethical Equity and ECPI World ESG Equity indices, which covers ESG criteria.



FTSE4Good Index
Stora Enso is included in the FTSE4Good Index Series. These indices measure the performance of companies demonstrating strong ESG practices.



Ecovadis
Stora Enso was included in the top 1% of the Ecovadis ethical supplier rating system, and achieved the highest recognition level (Platinum).



Solactive Europe Corporate Social Responsibility Index
Represents European securities that are screened in the field of Corporate Social Responsibility. This includes the following aspects: human rights, human capital, environmental social impact, market ethics and corporate governance. The index is a successor index of the Ethibel Sustainability Index Excellence Europe.



CDP
Stora Enso is included in CDP's Climate List, which identifies the global companies that are taking leadership in climate action.



Most sustainable company
Stora Enso was ranked the most sustainable listed company in our sector in Sweden by Dagens Industri, Aktuell Hållbarhet, and Lund University School of Economics and Management.

OMX Sustainability Finland index
Stora Enso is included in the NASDAQ OMX Sustainability Finland index.

Transition Pathway Initiative (TPI)
In February 2020, Stora Enso was top-ranked in greenhouse gas management and performance by the TPI. An asset owner-led and asset manager-supported global initiative, the TPI assesses companies' preparedness for transition to a low carbon economy, supporting efforts to address climate change.

THE RENEWABLE MATERIALS COMPANY



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More information in Stora Enso's Investor kit

storaenso.com → download centre



- Strategy
- Businesses
- Capacities
- Markets
- Financial performance
- Cost structure
- Capex
- Dividend policy
- Ownership structure
- Management
- Most recent quarterly results



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