

# Redefining packaging for a changing world



Sustainability Databook 2020

**The Power of Less®**



# Introduction

Welcome to the DS Smith Sustainability Databook 2020.

This report has been prepared for stakeholders who require a greater level of quantitative detail about the sustainability performance of DS Smith over the calendar year January to December 2019.

A detailed explanation of performance can be found in the [DS Smith Sustainability Report 2020](#).

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# Assurance statement

## Introduction and objectives of work

Bureau Veritas UK Limited ('Bureau Veritas') has been engaged by DS Smith Plc ('DS Smith') to provide independent verification of the environmental performance indicators presented on page 34 of its Annual Report & Accounts 2020 for calendar year 2019 (the 'Report'). This Assurance Statement applies to the related information included within the scope of work described below.

## Selected information

The scope of our work was limited to assurance over the following information included within the Report for the period 1st January to 31st December 2019 (the 'Selected Information'):

- total energy consumption;
- total energy exported;
- Scope 1 and 2 greenhouse gas (GHG) emissions;
- raw material usage;
- water consumption;
- total water effluent;
- landfill waste;
- discharge to air and water; and
- total production.

The reporting boundaries cover DS Smith's global operations as defined in the Report.

## Reporting criteria

The Selected Information has been prepared in accordance with internal definitions set for DS Smith's Environmental Indicators.

## Limitations and Exclusions

Excluded from the scope of our work is any verification of information relating to:

- Activities outside the defined reporting period;
- Positional statements (expressions of opinion, belief, aim or future intention by DS Smith) and statements of future commitment;
- Appropriateness of the reporting criteria
- Financial data provided in the Report which are audited by an external financial auditor, including but not limited to any statements relating to production, tax, sales, and financial investments; and
- Other information included in the Report other than the scope defined above.

This limited assurance engagement relies on a risk based selected sample of environmental data and the associated limitations that this entails. The reliability of the reported data is dependent on the accuracy of metering and other production

measurement arrangements employed at site level, not addressed as part of this assurance. This independent statement should not be relied upon to detect all errors, omissions or misstatements that may exist.

## Responsibilities

This preparation and presentation of the Selected Information in the Report are the sole responsibility of the management of DS Smith.

Bureau Veritas was not involved in the drafting of the Report or of the Reporting Criteria. Our responsibilities were to:

- Obtain limited assurance about whether the Selected Information has been prepared in accordance with the Reporting Criteria;
- Form an independent conclusion based on the assurance procedures performed and evidence obtained; and
- Reporting our conclusions to the Directors of DS Smith.

## Assessment Standard

We performed our work to a limited level of assurance in accordance with International Standard on Assurance Engagements (ISAE) 3000 Revised, Assurance Engagements Other than Audits or Reviews of Historical Financial Information (effective for assurance reports dated on or after December 15, 2015), issued by the International Auditing and Assurance Standards Board.

## Summary of work performed

As part of our independent verification, our work included:

1. Conducting interviews with relevant personnel of DS Smith;
2. Reviewing the data collection and consolidation processes used to compile Selected Information, including assessing assumptions made, and the data scope and reporting boundaries;
3. Carrying out nine 'virtual' site visits. Government advice at the time of this 'virtual' site visit was to avoid unnecessary travel. We conducted a risk assessment and determined that conducting a 'virtual' site visit with video conferencing, screen sharing, remote document sharing along with reliance on previous site visits to similar facilities resulted in a low level of residual verification risk. Sites were selected using a risk based approach to the following business units:
  - a. DS Smith Paper at Zarnesti Mill (Romania), Reading Mill (US), Kemsley Mill (UK), DS Smith Packaging at Launceston (UK), Kielce (Poland),

Gyor (Hungary), Ghimbav (Romania), Reading Corrugator (US), Erlensee (Germany)

4. Conducting remote data verification for a selection of data points for a further nine sites;
  - a. Rives Packaging (France), Riceboro Mill (USA), Lowell Corrugator (USA), Westminster Sheet Plant (USA), Thessaloniki Packaging (Greece), Skopje Packaging (Macedonia), Jilhove u Decina Packaging and Printing (Czech Republic), Krusevac Packaging (Serbia), Penedes Corrugator (Spain).
5. Agreeing a sample of the Selected Information to the corresponding source documentation;
6. Checking the data aggregation calculations performed at Head Office; and
7. Assessing the disclosure and presentation of the Selected Information to ensure consistency with assured information.

## Conclusion

On the basis of our methodology and the activities described above for the agreed scope, nothing has come to our attention to indicate that the Selected Information as stated below and in the Report are not fairly stated in the in all material respects. Further detailed recommendations are provided in the form of an internal management report to be issued to DS Smith.

## Statement of Independence, Integrity and Competence

Bureau Veritas is an independent professional services company that specialises in quality, environmental, health, safety and social accountability with over 190 years history. Its assurance team has extensive experience in conducting verification over environmental, social, ethical and health and safety information, systems and processes. Bureau Veritas operates a certified Quality Management System which complies with the requirements of ISO 9001:2015, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements. Bureau Veritas has implemented and applies a Code of Ethics, which meets the requirements of the International Federation of Inspections Agencies (IFIA)2, across the business to ensure that its employees maintain integrity, objectivity, professional competence and due care, confidentiality, professional behaviour and high ethical standards in their day-to-day business activities.

**Bureau Veritas UK Ltd, 10<sup>th</sup> June 2020**



## Data and performance

# Environmental indicators

## Group summary

Indicator	Unit of measurement	2018 (re-stated)	2019 (with acquisitions)	% variance (with acquisitions)	% variance (like-for-like)	% variance (2015 like-for-like)
Scope 1	Kt CO <sub>2</sub> e	1,758	1,833	4%	0%	-6%
Scope 2 (market)	Kt CO <sub>2</sub> e	525	510	-3%	-14%	12%
Emissions from energy exports	Kt CO <sub>2</sub> e	381	398	5%	5%	11%
Total CO <sub>2</sub> e (net)	Kt CO <sub>2</sub> e	1,902	1,944	2%	-5%	-7%
Total energy exported	Gwh	861	910	6%	6%	11%
Total energy consumption (net)	Gwh	11,835	12,176	3%	-2%	n/a
Total production	Kt nsp	9,204	9,307	1%	-3%	4%
Total waste to landfill	Kt	199	289	45%	2%	54%
CO <sub>2</sub> e per tonne of production	Kg CO <sub>2</sub> e/tonne nsp	207	209	1%	-3%	-11%

## Notes

- 2019 (with acquisitions and disposals) data based on data from 254 in-scope sites.
- 2018 (restated) data based on data from 248 in-scope sites. We have restated this data because we now have more accurate data available for the North American market than we had in 2018, which was the first year of ownership. In 2018, to report our performance it was necessary to estimate some data and we have since closed that gap with real data. This decision was taken to provide a useful comparison to the 2019 numbers reported.
- Figures from all years are based on data from sites we owned for the entirety of that year. The 2019 (with acquisitions and disposals) data is based on sites we have owned since 1st January 2019. We have included the data from our Plastics business, which we have now disposed of, in both the 2018 and 2019 column.
- Total production is the sum of printed reels and paper reels from our paper mills; plastics production (all types) from our Plastics sites; recovered fibre and other materials collected and processed through our Recycling depot network; finished wood products from our timber business and boxes and sheets sold to third parties from our Packaging sites and other types of packaging production from these sites.
- DS Smith collects and reports environmental data in accordance with the guidelines of the Global Reporting Initiative and the Greenhouse Gas Protocol (GHGP).
- The CO<sub>2</sub>e emissions were calculated using the UK DECC 2017 factors for all fuels.
- Where available, we use the emissions factor for bought electricity from the supplier of energy to our business (Scope 2 Market Value). If this figure is not reported, the country's emissions factor from the IEA is used instead (Scope 2 Location Value). Emissions from national grids use the AIB Residual Grid Emissions Factors for those European countries for which they are available, otherwise they use the previous location emissions factors from the International Energy Agency (IEA) 2017 v1.03 (AR5 Applied).
- The CHP that supplies our Wittenhausen paper mill with steam is fired predominantly by refuse-derived fuels. The emissions factor for this site has been estimated as 32.77 kg/MWh of CO<sub>2</sub>e.
- The CHP that supplies our Belišće paper mill and corrugator with steam and electricity is fired by a combination of natural gas and flare gas. The emissions factor for flare gas is estimated to be 240 kg/MWh of CO<sub>2</sub>e.
- The waste figures relate to waste generated by our operations; they do not include waste that is collected from external sources for recycling.
- The 2015 vs 2019 comparison is based on exclusion of all disposals made in the period with the exception of the legacy Plastics Division.

## Packaging division

Indicator	Unit of measurement	2018 (re-stated)	2019 (like-for-like)	2019 (with acquisitions)	% variance (like-for-like)	% variance (with acquisitions)
Scope 1	Kt CO <sub>2</sub> e	257	247	249	-3.9%	-3.1%
Scope 2 (market)	Kt CO <sub>2</sub> e	213	197	199	-7.5%	-6.6%
Emissions from energy exports	Kt CO <sub>2</sub> e	n/a	n/a	n/a	n/a	n/a
Total CO <sub>2</sub> e (net)	Kt CO <sub>2</sub> e	470	444	448	-5.5%	-4.7%
Total energy exported	GWh	6	11	11	83.3%	83.3%
Total energy consumption (net)	GWh	1,739	1,727	1,741	-0.7%	0.1%
Total production	Ktnsp	4,469	4,371	4,401	-2.2%	-1.5%
Total waste to landfill	Kt	6	7	7	16.7%	16.7%
CO <sub>2</sub> e per tonne of production	kg CO <sub>2</sub> e/nsp	105	102	102	-3.5%	-3.2%

## Paper division

Indicator	Unit of measurement	2018 (re-stated)	2019 (like-for-like)	2019 (with acquisitions)	% variance (like-for-like)	% variance (with acquisitions)
Scope 1	Kt CO <sub>2</sub> e	1,328	1,336	1,412	0.6%	6.3%
Scope 2 (market)	Kt CO <sub>2</sub> e	140	90	143	-35.7%	2.1%
Emissions from energy exports	Kt CO <sub>2</sub> e	381	398	398	4.5%	4.5%
Total CO <sub>2</sub> e (net)	Kt CO <sub>2</sub> e	1,087	1,028	1,157	-5.4%	6.4%
Total energy exported	GWh	855	899	899	5.1%	5.1%
Total energy consumption (net)	GWh	7,444	7,274	7,767	-2.3%	4.3%
Total production	Ktnsp	2,789	2,736	2,964	-1.9%	6.3%
Total waste to landfill	Kt	146	156	242	6.8%	65.8%
CO <sub>2</sub> e per tonne of production	kg CO <sub>2</sub> e/nsp	390	376	390	-3.6%	0.2%

## Recycling division

Indicator	Unit of measurement	2018 (re-stated)	2019 (like-for-like)	2019 (with acquisitions)	% variance (like-for-like)	% variance (with acquisitions)
Scope 1	Kt CO <sub>2</sub> e	10	10	10	0%	0%
Scope 2 (market)	Kt CO <sub>2</sub> e	2	2	2	0%	0%
Emissions from energy exports	Kt CO <sub>2</sub> e	n/a	n/a	n/a	n/a	n/a
Total CO <sub>2</sub> e (net)	Kt CO <sub>2</sub> e	12	12	12	0%	0%
Total energy exported	GWh	n/a	n/a	n/a	n/a	n/a
Total energy consumption (net)	GWh	6	6	6	0%	0%
Total production	Ktnsp	961	925	967	-3.7%	0.6%
Total waste to landfill	Kt	3	3	3	0%	0%
CO <sub>2</sub> e per tonne of production	kg CO <sub>2</sub> e/nsp	12	13	12	3.9%	-0.6%

## North America Packaging and Paper division

Indicator	Unit of measurement	2018 (re-stated)	2019 (like-for-like)	2019 (with acquisitions)	% variance (like-for-like)	% variance (with acquisitions)
Scope 1	Kt CO <sub>2</sub> e	144	140	146	-2.8%	1.4%
Scope 2 (market)	Kt CO <sub>2</sub> e	139	138	140	-0.7%	0.7%
Emissions from energy exports	Kt CO <sub>2</sub> e	n/a	n/a	n/a	n/a	n/a
Total CO <sub>2</sub> e (net)	Kt CO <sub>2</sub> e	283	278	286	-1.8%	1.1%
Total energy exported	GWh	n/a	n/a	n/a	n/a	n/a
Total energy consumption (net)	GWh	2,437	2,446	2,471	0.4%	1.4%
Total production	Ktnsp	891	846	886	-5.1%	-0.6%
Total waste to landfill	Kt	43	36	37	-16.3%	-14%
CO <sub>2</sub> e per tonne of production	kg CO <sub>2</sub> e/nsp	318	329	332	3.5%	1.6%

## Carbon and energy

### Country-level carbon and energy accounting

Country/region	Scope 1 emissions (metric tonnes of CO <sub>2</sub> e)	Scope 2, location-based (metric tonnes of CO <sub>2</sub> e)	Scope 2, market-based (metric tonnes of CO <sub>2</sub> e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low-carbon electricity, heat, steam or cooling accounted in market- based approach (MWh)
Austria	4,771	1,398	1,398	8,476	0
Belgium	5,111	3,163	3,040	23,498	1,000
Bosnia and Herzegovina	740	265	265	293	0
Bulgaria	37,493	32,190	32,190	77,415	0
Croatia	100,742	38,539	31,494	97,897	17,047
Czechia	3,383	5,992	5,992	9,754	0
Denmark	4,979	8,383	8,383	18,509	0
Estonia	773	2,218	2,218	2,128	0
Finland	2,149	3,913	3,913	12,748	0
France	122,613	11,527	11,527	245,836	0
Germany	213,834	132,208	58,390	582,622	100,910
Greece	5,591	5,292	5,292	8,506	0
Hungary	5,832	4,340	4,340	12,711	0
Italy	386,747	26,263	26,263	55,112	0
Lithuania	2,065	3,539	3,539	5,021	0
Morocco	5	78	78	111	0
Netherlands	193,160	15,643	15,643	40,637	0
New Zealand	15	183	183	1,476	0
North Macedonia	1,551	1,448	1,448	2,083	0
Poland	18,009	25,429	25,429	30,470	0
Portugal	226	5,352	5,242	19,401	286
Romania	80,554	55,944	55,944	131,715	0
Serbia	2,650	2,472	2,472	3,250	0
Slovakia	3,135	3,470	3,470	19,255	0
Slovenia	3,656	3,321	3,321	7,424	0
Spain	14,856	16,187	15,993	36,263	436
Sweden	1,157	1,454	1,454	39,961	0
Switzerland	1,845	770	0	3,852	3,852
Thailand	0	53	53	103	0
Turkey	305	1,570	1,570	3,547	0
United Kingdom	469,239	30,440	29,663	129,438	3,303
United States of America	146,045	149,434	149,434	326,631	0
<b>Total</b>	<b>1,833,177</b>	<b>592,478</b>	<b>509,641</b>	<b>1,956,143</b>	<b>126,834</b>

### Scope 3 emissions

Category	Scope 3 emissions (metric tonnes CO <sub>2</sub> e)
Purchased goods and services	736,323
Fuel-and-energy-related activities (not included in Scope 1 or 2)	47,363
Upstream transportation and distribution	133,928
Waste generated in operations	47,891
Business travel	5,513
Employee commuting	1,935
Downstream transportation and distribution	101,246
End of life treatment of sold products	721,097
<b>Total</b>	<b>1,795,296</b>

## Emissions to air

	Emitted to air (tonnes)
Dust	146
HFCs	0.04
NOx	5,342
SO2	46

## Energy consumption summary

	Renewable sources (MWh)	Non-renewable sources (MWh)	Total energy consumed (MWh)
Consumption of fuel (excluding feedstock)	1,558,657	8,661,450	<b>10,220,107</b>
Consumption of purchased or acquired electricity	127,002	1,393,995	<b>1,520,997</b>
Consumption of purchased or acquired steam	0	545,938	<b>545,938</b>
Consumption of self-generated non-fuel renewable energy	167	-	<b>167</b>
<b>Total energy consumption</b>	<b>1,685,826</b>	<b>10,601,383</b>	<b>12,287,209</b>

## Fuel consumption summary

Fuel Source	Fuel consumed for self- generation of electricity (MWh)	Fuel consumed for self- generation of heat (MWh)	Fuel consumed for self- generation of steam (MWh)	Fuel consumed for self- cogeneration or trigeneration (MWh)	Total fuel consumed by the organisation (MWh)
Coal	0	0	37,998	0	<b>37,998</b>
Biogas	0	0	0	87,752	<b>87,752</b>
Biomass	0	0	0	1,272,872	<b>1,272,872</b>
Black liquor	0	0	0	198,034	<b>198,034</b>
Heavy fuel oil (Number 6)	0	8,012	0	0	<b>8,012</b>
Light fuel oil (Number 2)	0	21,824	0	0	<b>21,824</b>
Liquefied Petroleum Gas (LPG)	0	56,553	0	0	<b>56,553</b>
Natural gas	0	0	1,349,005	7,122,460	<b>8,471,465</b>
Wood chips	0	0	0	662,052	<b>662,052</b>

## Electricity and steam generation summary

	Generation that is consumed by the organisation (MWh)	Gross generation from renewable sources (MWh)	Generation from renewable sources that is consumed by the organisation (MWh)	Total gross generation (MWh)
Electricity	1,007,555	126,835	126,835	<b>1,134,390</b>
Steam	5,229,114	815,721	815,721	<b>5,229,114</b>

## Product life cycle assessment

	Carbon footprint (kg CO <sub>2</sub> e)	Water footprint (m <sup>3</sup> )
1 tonne of testliner	531	6.14
1 tonne of corrugated board	531	0.32

Source: FEFCO LCA2018

## Waste and recycling

### Country-level waste disposal type

Country/region	Recycling (Ktonnes)	Landspread (Ktonnes)	Incineration (Ktonnes)	Landfill (Ktonnes)	Total solid waste (Ktonnes)	Hazardous waste (tonnes)
Austria	13.7	0	0.2	0	13.9	0.2
Belgium	12.7	0	0.1	0	12.8	2
Bosnia and Herzegovina	0	0	0	0	0	0
Bulgaria	1.1	0	2.2	7.2	10.5	3
Croatia	3.4	0	0.1	32.8	36.3	58
Czechia	14.8	0	0	0.2	15	47
Denmark	21	0	0.3	0	21.3	1,427
Estonia	0.3	0	0	0	0.3	0.1
Finland	7.2	0	0.1	0	7.3	29
France	129.1	5.7	6.3	5.8	146.9	1,639
Germany	115.5	0.2	38.6	0.1	154.4	276
Greece	15.9	0	0	0.4	16.3	75
Hungary	20.8	0	0.1	0.3	21.2	260
Italy	117.2	0	14.1	17.6	148.9	198
Lithuania	5.4	0	0.1	0	5.5	55
Morocco	-	-	-	-	0	0
Netherlands	32.8	0.1	10.6	0.1	43.6	1,999
New Zealand	0.01	0	0	0.02	0.03	
North Macedonia	2	0	0	0	2	2
Poland	34.5	0	0	0.5	35	43
Portugal	5.1	0	0	0.3	5.4	1
Romania	22.8	0	1.5	86.3	110.6	3
Serbia	4	0	0	0.2	4.2	1
Slovakia	7	0	0	0.1	7.1	0
Slovenia	10.9	0	2	0	12.9	15
Spain	39.1	0	0	0.6	39.7	26
Sweden	16.8	0	0.4	0	17.2	22
Switzerland	6.8	0	0.1	0	6.9	0
Thailand	0	0	0	0.004	0.004	0
Turkey	5.8	0	0.1	0	5.9	0
United Kingdom	112	110.7	4.2	99.2	326.1	3,283
United States of America	37.6	0	0	36.5	74.1	0.1
<b>Total</b>	<b>815.3</b>	<b>116.7</b>	<b>81.1</b>	<b>288.2</b>	<b>1,301.3</b>	<b>9,464.4</b>



## Group

Waste Destination	2016 (Ktonnes)	2017 (Ktonnes)	2018 (Ktonnes)	2019 (Ktonnes)
Recycling	678.7	721.3	835.6	815.3
Landspread	111.3	117.1	138.2	116.7
Incineration	201.5	194.8	148.8	80.9
Landfill	97.1	117.7	209.6	288.5
<b>Total</b>	<b>1,088.6</b>	<b>1,150.9</b>	<b>1,332.2</b>	<b>1,301.4</b>

## Packaging division

Waste Destination	2016 (Ktonnes)	2017 (Ktonnes)	2018 (Ktonnes)	2019 (Ktonnes)
Recycling	604.5	647.8	675.3	655
Landspread	0	0	0	0
Incineration	12.9	6.6	6.6	5.5
Landfill	7.3	6.9	5.7	7
<b>Total</b>	<b>624.7</b>	<b>661.3</b>	<b>687.6</b>	<b>677.5</b>

## Paper division

Waste Destination	2016 (Ktonnes)	2017 (Ktonnes)	2018 (Ktonnes)	2019 (Ktonnes)
Recycling	55.2	57.7	84.4	98
Landspread	111.3	117.1	138.2	116.7
Incineration	186.9	184.7	140.9	75.4
Landfill	86.2	107.1	145.9	242
<b>Total</b>	<b>439.6</b>	<b>466.6</b>	<b>509.4</b>	<b>532.1</b>

## Recycling division

Waste Destination	2016 (Ktonnes)	2017 (Ktonnes)	2018 (Ktonnes)	2019 (Ktonnes)
Recycling	16.4	13.4	23.9	14.7
Landspread	0	0	0	0
Incineration	1.3	3.3	1	0
Landfill	2.5	2.5	11.7	3
<b>Total</b>	<b>20.2</b>	<b>19.2</b>	<b>36.6</b>	<b>17.7</b>

## North American Packaging and Paper division

Waste Destination	2018 (Ktonnes)	2019 (Ktonnes)
Recycling	41.9	37.6
Landspread	0	0
Incineration	0	0
Landfill	42.8	36.5
<b>Total</b>	<b>84.7</b>	<b>74.1</b>

## Water stewardship

### Country-level water accounting

Country/region	Total Water abstracted (m³)	Sourced from Borehole (m³)	Sourced from Municipal (m³)	Sourced from Surface (m³)	Total Water consumed (m³)	Total Water discharged (m³)	Percentage withdrawn from water stressed area
Austria	39,303	36,971	2,332	0	14,833	24,470	-
Belgium	26,232	1,330	20,940	3,962	16,876	9,356	92
Bosnia and Herzegovina	433	164	269	0	216	217	-
Bulgaria	3,005,418	2,955,232	50,186	0	392,202	2,613,216	99.7
Croatia	3,708,335	12,147	38,349	3,657,839	1,575,758	2,132,577	-
Czechia	21,108	8,104	13,004	0	3,626	17,482	-
Denmark	27,918	490	27,428	0	12,448	15,470	-
Estonia	5,470	0	5,470	0	1,910	3,560	100
Finland	21,862	0	21,862	0	4,108	17,754	-
France	2,704,850	45,982	297,197	2,361,671	473,223	2,231,627	-
Germany	3,988,787	426,200	294,374	3,268,213	1,520,403	2,468,384	58.2
Greece	71,559	9,575	61,984	0	12,539	59,020	80.3
Hungary	48,177	21,231	26,946	0	23,490	24,687	-
Italy	2,118,730	1,293,177	54,601	770,952	466,067	1,652,663	93.9
Lithuania	13,730	0	13,730	0	7,102	6,628	-
Morocco	-	-	-	-	-	-	-
Netherlands	1,767,654	1,725,543	42,111	0	468,513	1,299,141	-
New Zealand	-	-	-	-	-	-	-
North Macedonia	12,052	4,367	7,685	0	6,026	6,026	100
Poland	71,286	628	56,387	14,271	18,636	52,650	-
Portugal	12,917	9,432	3,485	0	2,665	10,252	-
Romania	2,311,257	996,109	1,315,148	0	299,230	2,012,027	-
Serbia	9,081	0	9,081	0	363	8,718	-
Slovakia	56,712	46,959	5,754	3,999	37,661	19,051	-
Slovenia	28,653	13,900	14,455	298	14,327	14,326	-
Spain	60,712	0	53,608	7,104	37,993	22,719	48.3
Sweden	34,018	0	34,018	0	15,526	18,492	-
Switzerland	11,586	8,247	3,339	0	8,714	2,872	-
Thailand	256	0	256	0	128	128	-
Turkey	19,734	19,734	0	0	9,867	9,867	-
United Kingdom	6,987,043	6,678,473	308,570	0	531,999	6,455,044	96.5
United States of America	15,949,868	15,317,344	632,524	0	4,705,352	11,244,516	7.7
<b>Total</b>	<b>43,134,741</b>	<b>29,631,339</b>	<b>3,414,837</b>	<b>10,088,309</b>	<b>10,681,673</b>	<b>32,452,940</b>	

### Water abstraction

Measure	2016 (millions m³)	2017 (millions m³)	2018 (millions m³)	2019 (millions m³)
Water abstraction	25.5	25.2	40.1	43.1
Water consumption	6.3	5	8.5	10.6

### Water stress

Measure	2016 (%)	2017 (%)	2018 (%)	2019 (%)
Withdrawal from water stressed areas	-	60	35	36

## Water efficiency

Paper Mill	2016 (m³/tnsp)	2017 (m³/tnsp)	2018 (m³/tnsp)	2019 (m³/tnsp)
Aschaffenburg	5.4	5.6	5.5	5.7
Belišće	16.7	14.5	15.2	13
Contoire-Hamel (Papeterie)	7.8	9.4	8.6	8
Coullons	9.1	7.9	8	6.5
De Hoop	6.2	5.7	5.7	4.9
Kaysersberg	11	11.5	11.4	11.8
Kemsley	9	8.4	8.1	8.2
Lucca	5.5	4.7	5.1	4.9
Pazardzhik (Trakia)	31.1	30.9	33.2	33.8
Reading	-	-	5.5	6.4
Riceboro	-	-	36.6	39.9
Witzenhausen	5.1	4.8	5.1	5.1
Zărnești	-	-	11.2	10
<b>Average (Testliner mills)</b>	<b>10.7</b>	<b>10.3</b>	<b>10.2</b>	<b>10.4</b>
<b>Average (Kraftliner mills)</b>	<b>-</b>	<b>-</b>	<b>36.6</b>	<b>39.9</b>

## Water quality

Paper Mill (2019 average)	AOX (mg/L)	BOD (mg/L)	COD (mg/L)	Nitrogen concentration (mg/L)	pH	Phosphorous concentration (mg/L)	Suspended solids (mg/L)
Aschaffenburg	0.19	10	213	6	7.51	0.83	7
Belišće	0.08	61	311	14	7.41	0.37	36
Contoire-Hamel (Papeterie)	0.55	17	219	9	8.02	0.78	17
Coullons	1.45	1,112	2,722	24	7.47	0.63	572
De Hoop	-	-	5,769	28	6.83	-	899
Kaysersberg	0.15	5	72	12	7.88	0.86	5
Kemsley	-	21	135	17	7.96	2.16	53
Lucca	-	23	164	16	7.82	1.39	17
Pazardzhik (Trakia)	-	19	121	6	7.64	0.65	29
Reading	-	3,523	15	0.3	6.66	-	803
Riceboro	-	42	-	-	8.23	-	82
Witzenhausen	0.17	16	205	6	8.17	1.01	10
Zărnești	-	167	413	12	7.35	1.05	149

Coverage: These mills represent 95% of 2019 total water abstraction

## Water discharge

Discharge destination	2016 (millions m³)	2017 (millions m³)	2018 (millions m³)	2019 (millions m³)
Fresh surface water	9.2	10.1	11.0	11.6
Brackish surface water / seawater	6.7	6.6	16.3	17.2
Third party destinations / municipal	3.2	3.5	4.3	4.5
<b>Total discharge</b>	<b>19.1</b>	<b>20.2</b>	<b>31.6</b>	<b>33.3</b>

## Raw materials

### Packaging division inputs

Material	2017 (Ktonnes)	2018 (Ktonnes)	2019 (Ktonnes)
Kraftliner	787	963	918
Mixed or unknown papers	154	201	296
Pre-printed reels input	16	21	19
Recycled paper	3,026	3,158	3,113
Semi chemical fluting	99	155	155
<b>Total</b>	<b>4,082</b>	<b>4,498</b>	<b>4,500</b>

### Paper division inputs

Material	2017 (Ktonnes)	2018 (Ktonnes)	2019 (Ktonnes)
Pulp	4.1	4.6	3.4
Recovered fibre	3,181	3,464	3,538
Virgin fibre	-	859	822
<b>Total</b>	<b>3,185</b>	<b>4,328</b>	<b>4,363</b>

### Timber

Material	2018 (Ktonnes)	2019 (Ktonnes)
Wood from own land	38	43
Wood from third-party	1,138	1,056
<b>Total</b>	<b>1,175</b>	<b>1,100</b>

### Transit packaging

Material	2017 (Ktonnes)	2018 (Ktonnes)	2019 (Ktonnes)
Baling wire (for packaging)	3	16	10
Pallets (for packaging)	184	162	185
Paper/board (for packaging)	48	82	381
Plastic films (for packaging)	7	11	6
<b>Total</b>	<b>242</b>	<b>271</b>	<b>583</b>

## Environmental Management Systems

### Paper Division

Paper Mill	ISO 9001	ISO 14001	OHSAS 18001	ISO 50001	FSC®	PEFC
Alcolea	•	•			•	•
Aschaffenburg	•	•	•	•	•	
Belišće	•	•		•	•	
Coullons	•	•	•		•	
De Hoop	•	•	•	•	•	
Dueñas	•	•			•	•
Kaysersberg	•	•	•	•	•	
Kemsley	•	•	•	•	•	
Lucca	•	•	•	•	•	
Rouen	•			•	•	•
Trakia	•	•	•	•	•	
Viana	•	•	•	•	•	•
Witzenhausen	•	•	•	•	•	
Zărnești	•	•			•	
<b>Total</b>	<b>100%</b>	<b>93%</b>	<b>64%</b>	<b>71%</b>	<b>100%</b>	<b>29%</b>

Coverage: Paper division represents 77% of 2019 Scope 1 CO<sub>2</sub>e emissions



## Data and performance

# Social indicators

## Business Ethics

### Ethical audits

Country	Valid SMETA audits (3 year period)	Pending audits
Austria	0	2
Belgium	1	1
Bosnia and Herzegovina	0	0
Bulgaria	0	1
Croatia	0	1
Czechia	2	0
Denmark	0	2
Estonia	0	0
Finland	2	0
France	10	6
Germany	7	4
Greece	1	1
Hungary	4	0
Italy	3	2
Lithuania	1	0
Macedonia	0	0
Morocco	0	0
Netherlands	1	0
Poland	3	0
Portugal	0	0
Romania	0	1
Russia	1	0
Serbia	1	0
Slovakia	1	0
Slovenia	1	0
Spain	5	1
Sweden	2	0
Switzerland	1	0
Turkey	0	1
Ukraine	1	0
United Kingdom	12	7
United States of America	0	0
<b>Total</b>	<b>59</b>	<b>30</b>

### Most common non-conformances

Category of non-conformance	Number of occurrences (3 year period)
Health, safety and hygiene	32
Regular employment and wages	8
Working hours	4
Entitlement to work	4
Management systems	4
Environment	3
Other	1

## Community engagement

	Unit	FY17/18	FY18/19	FY19/20
Sites engaged in community programmes	% sites*	43	81	100

\* Sites with over 50 employees

## Diversity

### Gender composition

	Unit	FY18/19	FY19/20
Board of Directors	% female	22	25
Senior Management	% female	12	28
Group	% female	23	22
Graduate recruitment	% female	40	40
Global leadership programme cohort	% female	-	38
High potential leaders programme cohort	% female	-	43

### Gender pay gap

	Unit	2018	2019
Mean gender pay gap	%	10.2	4.7
Median gender pay gap	%	10.3	6.7

## Health and safety

	FY17/18	FY18/19	FY19/20
Lost Time Accidents (LTAs)	146	106	97
Accident Frequency Rate (AFR)	3	2.3	2.1

## Sustainable procurement

	Unit	FY18/19	FY19/20
Agreed to Global Supplier Standard	% suppliers	2	11
	% strategic suppliers	30	74
Assessed on sustainability performance	% strategic suppliers	-	74
Engaged in plans to improve performance	Number of suppliers	-	18
Initiated actions to improve performance	Number of actions	-	239
Completed actions to improve performance	Number of actions	-	139

## Frameworks and standards

# Framework disclosures

## Global Reporting Initiative (GRI)

	Page number and links	External assurance
<b>Organisational profile</b>		
102-1	SR back cover	Yes
102-2	AR pg. 4-7, SR pg. 4-5	
102-3	SR back cover	Yes
102-4	AR pg. 7, SR pg. 4	
102-5	AR inside cover	Yes
102-6	AR pg. 23	
102-7	AR pg. 36-37, SR pg. 5	Yes
102-8	AR pg. 27-29 and GRI report	
102-9	GRI report	
102-10	SR pg. 4	Yes
102-11	SR pg. 40	
102-12	AR pg. 34, SR pg. 40	
102-13	SR pg. 38 and GRI report	
<b>Strategy</b>		
102-14	SR pg. 2-3	
<b>Ethics and integrity</b>		
102-16	AR pg. 4, SR pg. 4	
<b>Governance</b>		
102-18	SR pg. 40-41	
<b>Stakeholder engagement</b>		
102-40	SR pg. 38-39	
102-41	GRI report	
102-42	SR pg. 38-39	
102-43	SR pg. 38-39 and GRI report*	
102-44	SR pg. 38-39	
<b>Reporting practice</b>		
102-45	AR pg. 111	Yes
102-46	SR pg. 4, 43	
102-47	SR pg. 39 and GRI report	
102-48	SR pg. 44	Yes
102-49	SR pg. 44	Yes
102-50	SR pg. 44	Yes
102-51	GRI report	
102-52	SR pg. 43	
102-53	SR back cover and website	Yes
102-54	SR pg. 43	Yes
102-55	SR pg. 45	
102-56	SR pg. 43	Yes

### Key

SR = Sustainability Report 2020, and if external assurance column contains "Yes", please find statement on SR pg. 43

AR = Annual Report 2020, and if external assurance column contains "Yes", please find statement on AR pg. 35

GRI Report: Our Sustainability Report 2020 content is defined by the topics which our internal and external stakeholders collectively found to be most important, during our materiality analysis in 2017. However, there are some further aspects and indicators which are also material to our business. We have reported our actions on these aspects in our GRI disclosure report which can be found at: [dssmith.com/company/sustainability/sustainabilityreport/GRI-disclosure-report](https://dssmith.com/company/sustainability/sustainabilityreport/GRI-disclosure-report)

## Sustainability Accounting Standards Board (SASB)

Table 1. Sustainability accounting metrics

Topic	Metric	Unit	Code	Period	Value			
Greenhouse Gas Emissions	Gross global Scope 1 emissions	Metric tonnes (t) CO <sub>2</sub> e	RT-CP-110a.1	2019	1,833,000			
	Percentage covered under emissions-limiting regulations	Percentage (%)			92			
Air Quality	Air emissions of the following pollutants: NO <sub>x</sub> (excluding N <sub>2</sub> O)	Metric tonnes (t)	RT-CP-120a.1	2019	5,342			
	SO <sub>x</sub>				0			
	Volatile organic compounds (VOCs)				0			
	Particulate matter (PM)				0			
Energy Management	Total energy consumed	Gigajoules (GJ)	RT-CP-130a.1	2019	43,834,396			
	Percentage grid electricity	Percentage (%)			11			
	Percentage renewable				13			
	Total self-generated energy	Gigajoules (GJ)			22,908,614			
Water Management	Total water withdrawn	Thousand cubic metres (m <sup>3</sup> )	RT-CP-140a.1	2019	43,100			
	Percentage in regions with high or extremely high baseline water stress	Percentage (%)			36			
	Total water consumed	Thousand cubic metres (m <sup>3</sup> )			9,800			
	Percentage in regions with high or extremely high baseline water stress	Percentage (%)			36			
	Number of incidents of non-compliance associated with water quality permits, standards or regulations					Number	FY19/20	100
	Amount of hazardous waste generated					Metric tonnes (t)	RT-CP-150a.1	2019
Product Safety	Percentage recycled	Percentage	RT-CP-250a.1	FY19/20	63			
	Number of recalls issued	Number			0			
	Total units recalled	Number			0			



Topic	Metric	Unit	Code	Period	Value
Product Lifecycle Management	Percentage of raw materials from Recycled content	Percentage (%) by weight	RT-CP-410a.1	2019	77
	Renewable resources				31
	Renewable and recycled content				98
	Revenue from products that are reusable, recyclable, and/or compostable	£ GBP	RT-CP-410a.2	FY19/20	5,934,000,000
Supply Chain Management	Total wood fibre procured	Metric tons (t)	RT-CP-430a.1	2019	9,401,203
	Percentage from certified sources	Percentage (%)			100
	Total aluminium purchased*	*Not applicable: no aluminium used in production			
	Percentage from certified sources*				

**Table 2. Activity metrics**

Activity metric	Unit	Code	Period	Value
Amount of production	Metric tonnes (t)	RT-CP-000.A	2019	
Paper and/or wood fibre				9,204,000
Glass				0
Metal				0
Petroleum-based substrates (i.e. polymers)				0
Percentage of production as: (1) paper/wood, (2) glass, (3) metal, and (4) plastic	Percentage (%)	RT-CP-000.B	2019	100, 0, 0, 0
Number of employees	Number	RT-CP-000.C	FY19/20	29,223

## Miscellaneous

# Group policies index

On this page you can find a complete list of policies, which are available online via the links provided.

## Environmental

- Group Environmental Management Policy
  - Carbon and Energy Efficiency Policy
  - Sustainable Forest Management and Fibre Sourcing Policy
  - Water Stewardship Policy
  - Zero Waste to Landfill Policy

## Social

- Board Diversity and Inclusion Policy
- Community Engagement Policy
- Conflict Minerals Policy
- DS Smith Employee Charter
- Modern Slavery Policy

## Governance

- Anti-Corruption Policy
- Code of Conduct
- Compliance Framework Policy
- Gifts & Hospitality Policy
- Global Supplier Standard (GSS)
- Group Tax Policy
- Group Supplier Standards Policy

# Other reports

- Annual Report 2020
- Sustainability Report 2020
- GRI Report 2020