

Crown Holdings, Inc.

One Crown Way, Philadelphia, PA 19154-4599, USA

Verification Criteria: Carbon Disclosure Project (CDP) Guidelines

ISO 14065:2013 "Requirements for Greenhouse Gas Validation and Verification Bodies for use in Accreditation or Other Forms of Recognition"

Reporting Period: 2019 (01 January - 31 December inclusive)

Scope of Verification

The verification covers the period 01 January 2019 to 31 December 2019 inclusive associated with Crown Holdings Inc. global operations. Where assumptions have been made then these have been documented for transparency. The verification was conducted to a limited level of assurance and concludes that the GHG Report (Assertion) is materially correct.

Data and calculations selected for verification were based upon a risk assessment approach. The verification also included 'boundaries' completeness checks. Data in spreadsheets were also examined and specific sampling of data was conducted giving consideration to raw data sources. Emission factors were found to be based on best available information and were from robust and recognised sources.

Verifiers Opinion

Based on the evidence provided and the samples selected for verification, it is the opinion of Lucideon that the Crown Holdings Inc. assertion covering the period 1st January 2019 to 31st December 2019 is materially correct and is a fair representation of the GHG data and information and was compiled in conformance with the verification criteria described above. The data and information supporting the GHG Assertion were historical in nature. The following qualifications apply:

- The verification boundary is defined in the summary table below. All other source streams were outside the verification boundary.
- Signode Industrial Group Holdings was acquired by Crown Holdings Inc in Q2 2018. Emissions for 2018 were not included in the 2018 inventory on the basis of only partial year data being available. The 2019 includes Signode facilities on a full year basis for the first time representing a significant increase in the number of facilities reported and associated emissions.
- Scope 1 Mobile (Diesel & Gasoline): Reported for Signode facilities only.
- CH4 and N2O emissions are excluded for scope 1 mobile gasoline, mobile diesel and jet fuel on the basis of being negligible.

Verified Emissions 2019

Final verified data is as follows:

SCOPE	Subscope	Primary			Secondary		
		tCO ₂ e (Market Based)	% Scope (Market Based)	% Total (Market Based)	tCO ₂ e (Location Based)	% Scope (Location Based)	% Total (Location Based)
1	Diesel Stationary	15,493	2.45%	1.00%	15,493	2.45%	0.99%
1	Mobile - Diesel	1,258	0.20%	0.08%	1,258	0.20%	0.08%
1	Mobile - Gasoline	4,897	0.77%	0.32%	4,897	0.77%	0.31%
1	Fuel Oil	7,807	1.23%	0.50%	7,807	1.23%	0.50%
1	LPG	68,350	10.81%	4.41%	68,350	10.81%	4.38%
1	Propane	7,397	1.17%	0.48%	7,397	1.17%	0.47%
1	Jet Fuel	1,496	0.24%	0.10%	1,496	0.24%	0.10%
1	Natural Gas	525,793	83.13%	33.89%	525,793	83.13%	33.72%
	Scope 1 Total	632,491	100.00%	40.76%	632,491	100.00%	40.56%
2	Electric Power	1,019,852	110.96%	65.73%	926,918	99.99%	59.44%
2	District Heating	74	0.01%	0.00%	74	0.01%	0.00%
2	Renewable Energy Credits (REC)	-480	-0.05%	-0.03%	0	0.00%	0.00%
2	Renewable Power-Offsite	-100,367	-10.92%	-6.47%	0	0.00%	0.00%
	Scope 2 Total	919,078	100.00%	59.24%	926,991	100.00%	59.44%
All	Total	1,551,569	tCO₂e	100.00%	1,559,483	tCO₂e	100.00%



Andrew Shepherd
Lead Verifier

30 July 2020



John Ingham
Independent Reviewer

31 July 2020