

Crown Holdings, Inc.

Hidden River Corporate Center Two, 14025 Riveredge Drive, Suite 300 Tampa, FL 33637, USA

Verification Criteria: Carbon Disclosure Project (CDP) Guidelines

The Greenhouse Gas Protocol" (World Resources Institute, 2004 Revised Edition amended 2013), the "General Reporting Protocol v.

2.0

ISO 14064-3:2019 Greenhouse gases — Part 3: Specification with guidance for the verification and validation of greenhouse gas

statements

Footprint Period: 2022 (01 January - 31 December inclusive)

Scope of Verification

The verification covers the period 01 January 2022 to 31 December 2022 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 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 2022 to 31st December 2022 is materially correct and is a fair representation of the data and information and was compiled in conformance with the verification criteria described above. The data and information supporting the assertion were historical in nature. The following qualifications apply:

- Verification Boundary: The verification boundary is defined below. All other source streams are outside the verification boundary.
- Scope 1 Mobile Fuels: CH4 and N2O emissions are excluded for scope 1 mobile gasoline, mobile diesel, mobile CNG and jet fuel on the basis of being negligible.
- kWh Data: The scope 1 and scope 2 kwh data has been verified as part of the verification scope.
- Scope 3: Aluminium and Steel: Aluminium and steel emission factors are based on a supplier by supplier basis as researched by the operator where possible. The verifier assessed that these emission factors are commensurate with other published emission factors and can therefore be considered robust.
- Scope 3 Other: The calculation of emissions is based on Carnegie Mellon's EIO LCA dataset, with an inflation adjustment using the year end inflation total to the model date

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			Primary	Secondary
scope	Subscope	kwh	MTCO2e (Market)	MTCO2e (Location)
1	Compressed Natural Gas (CNG) - mobile	1	0	
1	Diesel	23,495,155	5,950	5,950
1	Diesel - Mobile	9,316,842	2,340	2,340
1	Fuel Oil	27,204,587	6,906	6,906
1	Gasoline (Petrol) - Mobile	17,643,707	4,229	4,229
1	Jet Fuel (Jet A or A-1)	4,869,333	1,210	1,210
1	Kerosene	59,205	15	15
1	Liquefied Petroleum Gas (LPG)	360,075,702	76,130	76,130
1	Natural Gas	2,463,373,291	446,469	446,469
1	Number 2 Fuel Oil	2,395,215	607	607
1	Process Emissions	/ -	65,397	65,397
1	Propane	16,888,701	3,556	3,556
1	Renewable Power - Onsite	3,248,170		
1	Onsite Solar Generation - EACs Not Retained	667,406	100	110
	Scope 1 Total	2,929,237,314	612,909	612,919
2	District Heating	1,523,016	260	260
2	Electric Power	2,305,124,805	854,772	802,381
2	Renewable Energy Credit (REC)	486,312,311 -	167,807	- 1
2	Renewable Power - Offsite	304,500,449 -	121,296	
	Scope 2 Total (Excl. Renewable REC/ Off-site)	2,306,647,821	565,929	802,641
3	Aluminium		8,868,552	8,868,552
3	Coatings		405,018	405,018
3	Compound		15,625	15,625
3	Inks		13,063	13,063
3	Steel		1,564,711	1,564,711
3	Wood/Paper		136,910	136,910
3	Plastic		324,740	324,740
3	Other (Signode I/O Model)		196,486	196,486
	Scope 3 Total		11,525,103	11,525,103
All	Total		12,703,940	12,940,663

SCOPE	Subscope	USgallons	%
Water	Ground Water Withdrawal	507,434,721	21.10%
Water	Municipal Water Withdrawal	1,721,854,518	71.60%
Water	Surface Water Withdrawal	175,111,463	7.28%
Water	Rain Water Withdrawal	301,132	0.01%
	Total	2,404,701,834	100.00%

SCOPE	Subscope	TM
Waste	Waste Generated *	2,779,992

^{* 98,080} MT of this waste is classified as hazardous

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Verification StatementCarbon Disclosure Project (CDP)



Andrew Shepherd Lead Verifier

17th May 2023

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John Ingham Independent Reviewer

9th May 2023 and 18th May 2023 (SB)

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