

## Crown Holdings, Inc.

770 Township Line Road, Yardley, PA 19067, 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 14065:2013 “Requirements for Greenhouse Gas Validation and Verification Bodies for use in Accreditation or Other Forms of Recognition”

**Footprint Period:** 2021 (01 January - 31 December inclusive)

### Scope of Verification

The verification covers the period 01 January 2021 to 31 December 2021 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 1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021 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:

- The verification source stream boundary is defined in the summary table below. All other source streams were outside the verification boundary.
- Scope 1 Mobile Fuels: CH<sub>4</sub> and N<sub>2</sub>O 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 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 (2002 to 2020) from the BLS CPI inflation calculator. Some data is based on 2019 as current year data was not available in time for reporting.
- Excluded Facilities: c. 30 European facilities were divested during 2021. These divested facilities were not included in the reporting boundary for the entirety of 2021.

Verified inventory as follows:

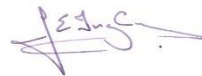
SCOPE	Subscope	kWh	tCO <sub>2</sub> e (Market)	tCO <sub>2</sub> e (Location)
1	Compressed Natural Gas (CNG) - mobile	3	0	0
1	Diesel	37,711,580	9,548	9,548
1	Diesel - Mobile	8,592,279	2,158	2,158
1	Fuel Oil	40,311,018	10,232	10,232
1	Gasoline (Petrol) - Mobile	16,661,753	3,993	3,993
1	Jet Fuel (Jet A or A-1)	3,662,771	903	903
1	Kerosene	66,871	17	17
1	Liquefied Petroleum Gas (LPG)	326,402,993	68,999	68,999
1	Natural Gas	2,456,571,510	445,215	445,215
1	Number 2 Fuel Oil	2,719,773	689	689
1	Propane	17,732,462	3,733	3,733
1	Renewable Power - Onsite	2,562,244	0	-
	<b>Scope 1 Total</b>	<b>2,912,995,259</b>	<b>545,488</b>	<b>545,488</b>
2	District Heating	1,637,468	280	280
2	Electric Power	2,267,476,511	841,386	800,072
2	Renewable Energy Credit (REC)	423,099,530	-143,563	0
2	Renewable Power - Offsite	265,414,553	-100,574	0
	<b>Scope 2 Total (Excl. Renewable REC/Off-site)</b>	<b>2,269,113,979</b>	<b>597,528</b>	<b>800,352</b>
3	Aluminium		7,240,195	7,240,195
3	Coatings		291,857	291,857
3	Compound		12,400	12,400
3	Inks		9,902	9,902
3	Steel		1,946,525	1,946,525
3	Wood/Paper		138,308	138,308
3	Plastic		394,374	394,374
3	Other (Signode I/O Model)		196,486	196,486
	<b>Scope 3 Total</b>		<b>10,230,048</b>	<b>10,230,048</b>
<b>All</b>	<b>Total</b>		<b>11,373,064</b>	<b>11,575,887</b>

SCOPE	Subscope	US gallons
Water	Ground Water	531,482,115
Water	Municipal Water	1,669,727,227
Water	Surface Water	206,577,790
Water	Rain Water	484,008
	<b>Total</b>	<b>2,408,271,140</b>



Andrew Shepherd  
Lead Verifier

12 July 2022



John Ingham  
Independent Reviewer

15 July 2022