

# AEO

## ANNUAL GHG INVENTORY RESULTS

### 1. GHG Emissions

#### GHG Emissions Summary (metric tons CO<sub>2</sub>e)

	2018	2019	2020	2021
Scope 1	9,953	9,537	7,790	9,248
Scope 2 <sup>1</sup>	70,418	53,027	41,795	40,231
<b>Total Scope 1&amp;2</b>	<b>80,371</b>	<b>62,564</b>	<b>49,585</b>	<b>49,480</b>

#### Scope 1 GHG Emissions Breakdown (metric tons CO<sub>2</sub>e)

Emissions Category	2018	2019	2020	2021
Stationary combustion	5,474	5,223	4,945	5,129
Mobile combustion	3,393	3,314	1,759	3,029
Refrigerants	1,086	1,001	1,086	1,090
<b>Total Scope 1</b>	<b>9,953</b>	<b>9,537</b>	<b>7,790</b>	<b>9,248</b>

#### Scope 2 GHG Emissions Breakdown (metric tons CO<sub>2</sub>e)

Emissions Category	2018	2019	2020	2021
Electricity	70,3197	52,967	41,763	40,196
Chilled Water	37	60	32	35
<b>Total Scope 2</b>	<b>70,234</b>	<b>53,027</b>	<b>41,795</b>	<b>40,231</b>

#### Scope 1&2 GHG Emissions Breakdown by Region (metric tons CO<sub>2</sub>e)

Region	2018	2019	2020	2021
North America	79,161	61,394	48,517	48,319
Central America	732	943	434	376
Eastern Asia	293	227	634	784
<b>Total Scope 1&amp;2</b>	<b>80,186</b>	<b>62,564</b>	<b>49,585</b>	<b>49,480</b>

Scope 3 Emissions Breakdown (metric tons CO<sub>2</sub>e)<sup>2</sup>

Emissions Category	2018	2020	2021
Purchased Goods and Services	897,000	931,000	1,067,000
Capital Goods	14,000	9,000	15,000
Fuel- and Energy-Related Activities	(not calculated)	11,000	11,000
Upstream Transportation and Distribution	112,000	57,400	174,500
Waste Generated in Operations	46,000	37,000	29,000
Business Travel	5,000	1,000	1,000
Employee Commuting	(not calculated)	14,500	23,600
Downstream Transportation and Distribution	3,500	4,000	3,800
Use of Sold Products	2,005,000	1,861,000	2,171,000
End of Life Treatment of Sold Products	(not calculated)	89,000	157,000
Franchises	12,000	10,000	11,000
<b>Total Scope 3</b>	<b>3,094,500</b>	<b>3,020,700</b>	<b>3,663,900</b>

**2. Energy/Electricity (kWh)**

	2018	2019	2020	2021
Total Energy use	184,175,751	232,628,635	170,103,045	179,133,617
Total Electricity Consumption <sup>3</sup>	157,160,924	158,711,860	142,855,02	150,859,846

Energy use by facility type (kWh)

Facility Type	2018	2019	2020	2021
Store	93,470,586	98,325,051	83,085,906	89,490,219
Warehouse	48,612,512	48,880,604	47,443,918	46,900,943
Outlet	24,782,172	48,141,182	23,970,374	27,246,362
Office	13,256,775	33,420,242	12,094,085	12,128,325
Data Center	4,053,705	3,861,556	3,508,763	3,367,768
<b>Total</b>	<b>184,175,751</b>	<b>232,628,635</b>	<b>170,103,045</b>	<b>179,133,617</b>

Total Renewable Energy Use (kWh)

	2018		2019		2020		2021	
	Total Energy Use (kWh)	%	Total Energy Use (kWh)	%	Total Energy Use (kWh)	%	Total Energy Use (kWh)	%
Renewable Energy	3,126,847	2%	34,080,450	21%	32,549,405	23%	38,944,884	26%
Non-Renewable Energy	154,034,077	98%	124,631,410	79%	110,305,615	77%	111,914,962	74%

Renewable Energy<sup>4</sup> By Facility Type (kWh)

Facility Type	2018	2019	2020	2021
Store	476,031	6,941,665	7,337,964	12,439,231
Warehouse	1,404,478	12,980,736	12,914,266	13,177,805
Outlet	101,253	1,886,901	1,815,386	3,179,845
Office	582,897	8,448,854	7,014,544	6,843,054
Data Center	562,188	3,822,293	3,467,245	3,304,949
<b>Total</b>	<b>3,126,847</b>	<b>34,080,450</b>	<b>32,549,405</b>	<b>38,944,884</b>

Average energy use/Normalized electrical power usage (kWh/sqft)

	2018	2019	2020	2021
Average Energy Use	18.4	20.3	15.2	17.9

**3. Fleet Fuel Consumption (gallons)**

Fuel Summary	2018	2019	2020	2021
Total Fleet <sup>5</sup>	93,993	118,988	83,530	70,889

*Footnotes:*

<sup>1</sup> Scope 2 emissions are calculated using the market-based approach, which allows us to account for renewable energy in our footprint.

<sup>2</sup> In 2020 we completed a re-baseline of our scope 3 emissions. We also completed calculations for three new categories.

<sup>3</sup>All electricity is purchased and consumed from the grid.

<sup>4</sup> All renewable energy are purchased Green-e Certified renewable energy credits (RECs) for facilities in Connecticut, Illinois, Maryland, Massachusetts, New Jersey, New York, Ohio, Pennsylvania, and Texas.

<sup>5</sup>All fuels are from non-renewable sources.



# RUBY CANYON ENVIRONMENTAL

## Verification Statement

### American Eagle Outfitters

### 2021 Greenhouse Gas Emissions Inventory

#### Verification Scope:

Ruby Canyon Environmental, Inc (RCE) was contracted by American Eagle Outfitters (AEO) to perform the third-party greenhouse gas (GHG) emissions inventory verification for AEO's facilities reporting under operational control to the requirements of the GHG Protocol. RCE verified emissions for the reporting period from February 1, 2021 to January 31, 2022. The inventory included emissions of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O from direct, Scope 1 sources (stationary and mobile fuel combustion); fugitives, Scope 1 sources (refrigerants) and; indirect, Scope 2 sources (purchased electricity and chilled water) using the location-based and market-based calculation methodologies. AEO did not include PFC, SF<sub>6</sub>, or NF<sub>3</sub> emissions.

#### Verification Objectives:

- To ensure that AEO's GHG assertion is materially correct, and that the verification is conducted to the agreed level of assurance,
- To assess the extent of conformity with the stated criteria,
- To determine the completeness of AEO's reported data and information, and
- To evaluate AEO's information systems and the controls and management of those systems.

#### Greenhouse Gas Reporting Criteria:

AEO was assessed against the requirements of *The Greenhouse Gas Protocol (GHG Protocol): Corporate Accounting and Reporting Standard, World Resources Institute and World Business Council for Sustainable Development*, dated March 2004. All requirements of the GHG Protocol including greenhouse gas reporting, management systems, quantification techniques, and emission factors were reviewed during the verification.

#### Greenhouse Gas Verification Criteria:

Verification activities were performed in accordance with *ISO 14064-3:2006 Greenhouse Gases – Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions*.

#### Level of Assurance:

A limited level of assurance was applied to AEO's Scope 1 and Scope 2 emissions during the verification.

#### Organizational Boundaries:

AEO consolidated the emissions reported in the GHG Inventory according to the operational control approach.

**GHG Emissions Verified:**

GHG Emissions Category	GHG Emissions (metric tons CO2e)	
	Emissions (mtCO2e)	Emissions (mtCO2e)
<b>Scope 1 GHG Emissions</b>		
Stationary combustion	5,129	5,129
Mobile combustion - corporate aircraft	2,404	2,404
Mobile combustion - fleet vehicles	625	625
Refrigerants	1,090	1,090
<b>Subtotal</b>	<b>9,248</b>	<b>9,248</b>
<b>Scope 2 GHG Emissions</b>	<b>Market-Based Emissions (mtCO2e)</b>	<b>Location-Based Emissions (mtCO2e)</b>
Electricity	40,196	53,606
Chilled Water	35	35
<b>Subtotal</b>	<b>40,231</b>	<b>53,642</b>
<b>Total Scope 1 and 2 GHG Emissions</b>	<b>49,480</b>	<b>62,890</b>

\*Totals might not sum due to rounding.

**Verification Opinion:**

RCE conducted a risk-based analysis of the AEO GHG emissions inventory and a strategic review of the inventory data and calculations in conformance with the GHG Protocol.

Based on the data and information provided, RCE concludes with a limited level of assurance that there is no evidence that the GHG assertion:

- Is not materially correct,
- Is not a fair representation of the GHG emissions data and information, and
- Is not prepared in accordance with the criteria listed above.



Diana Xareni González Cuevas      Lead Verifier

Date: June 15, 2022



Garrett Heidrick      Independent Peer Reviewer

Date: June 15, 2022

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