

AEO

ANNUAL GHG INVENTORY RESULTS

1. GHG Emissions

GHG Emissions Summary (metric tons CO₂e)

	2018	2019	2020	2021	2022
Scope 1	11,537	11,784	10,340	11,803	12,343
Scope 2 ¹	71,930	56,318	45,161	43,205	45,476
Total Scope 1&2	83,467	68,102	55,501	55,008	57,819

Scope 1 GHG Emissions Breakdown (metric tons CO₂e)

Emissions Category	2018	2019	2020	2021	2022
Stationary combustion	6,943	7,257	7,263	7,453	7,849
Mobile combustion	3,393	3,314	1,759	3,029	3,069
Refrigerants	1,201	1,214	1,318	1,322	1,425
Total Scope 1	11,537	11,784	10,340	11,803	12,343

Scope 2 GHG Emissions Breakdown (metric tons CO₂e)

Emissions Category	2018	2019	2020	2021	2022
Electricity	71,893	56,258	45,129	43,170	45,436
Chilled Water	37	60	32	35	39
Total Scope 2	71,930	56,318	45,161	43,205	45,476

Scope 1&2 GHG Emissions Breakdown by Region (metric tons CO₂e)

Region	2018	2019	2020	2021	2022
North America	82,456	66,951	54,432	53,848	55,289
Central America	722	927	434	376	1,271
Eastern Asia	289	224	634	784	1,259
Total Scope 1&2	83,467	68,102	55,501	55,008	57,819

Scope 3 Emissions Breakdown (metric tons CO₂e)²

Emissions Category	2018	2020	2021	2022
Purchased Goods and Services	927,000	929,000	1,122,000	1,134,000
Capital Goods	7,600	5,300	9,800	10,000
Fuel- and Energy-Related Activities	(not calculated)	9,000	12,000	11,000
Upstream Transportation and Distribution	131,200	78,000	150,400	58,700
Waste Generated in Operations	51,000	49,000	30,000	29,000
Business Travel	6,000	1,000	2,000	5,000
Employee Commuting	(not calculated)	14,500	23,600	29,800
Downstream Transportation and Distribution	2,900	3,200	3,200	2,900
Use of Sold Products	2,005,000	1,861,000	2,171,000	2,172,000
End of Life Treatment of Sold Products	(not calculated)	89,000	38,000	38,000
Franchises	13,000	19,000	19,000	20,000
Total Scope 3	3,143,763	3,058,111	3,580,928	3,510,658

2. Energy/Electricity (kWh)

	2018	2019	2020	2021	2022
Total Energy use	198,301,858	245,005,798	191,173,198	200,698,914	206,570,708
Total Electricity Consumption ³	160,097,543	164,067,700	151,137,780	159,606,616	163,519,206

Energy use by facility type (kWh)

Facility Type	2018	2019	2020	2021	2022
Store	96,554,633	98,325,051	83,085,906	89,490,219	94,453,702
Warehouse	59,654,573	65,625,267	68,514,071	68,466,240	68,299,996
Outlet	24,782,172	43,942,320	23,970,374	27,246,362	28,391,217
Office	13,256,775	33,251,604	12,094,085	12,128,325	12,174,224
Data Center	4,053,705	3,861,556	3,508,763	3,367,768	3,251,570
Total	198,301,858	245,005,798	191,173,198	200,698,914	206,570,708

Total Renewable Energy Use (kWh)

	2018		2019		2020	
	Total Energy Use (kWh)	%	Total Energy Use (kWh)	%	Total Energy Use (kWh)	%
Renewable Energy	2,802,057	2%	30,075,123	18%	32,416,471	21%
Non-Renewable Energy	157,295,486	98%	133,992,577	82%	118,721,308	79%

	2021		2022	
	Total Energy Use (kWh)	%	Total Energy Use (kWh)	%
Renewable Energy	39,903,127	25%	37,502,300	23%
Non-Renewable Energy	119,703,489	75%	126,016,906	77%

Renewable Energy⁴ By Facility Type (kWh)

Facility Type	2018	2019	2020	2021	2022
Store	189,413	5,357,704	7,214,121	12,996,189	11,370,376
Warehouse	1,404,478	12,980,736	12,914,266	13,177,805	12,856,068
Outlet	63,081	1,124,025	1,806,295	3,581,129	3,078,915
Office	582,897	6,790,364	7,014,544	6,843,054	7,006,053
Data Center	562,188	3,822,294	3,467,245	3,304,949	3,190,889
Total	2,802,057	30,075,123	32,416,471	39,903,127	37,502,300

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

	2018	2019	2020	2021	2022
Average Energy Use	17.9	18.2	14.3	16.4	14.7

3. Fleet Fuel Consumption (gallons)

Fuel Summary	2018	2019	2020	2021	2022
Total Fleet ⁵	93,993	118,988	83,530	70,889	97,364

Footnotes:

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

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

³ All electricity purchased and consumed from the grid

⁴ 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

⁵ All fuels are from non-renewable sources

Verification Opinion

Submitted to: American Eagle Outfitters

Verification Body: Ruby Canyon Environmental, Inc.
743 Horizon Court, Suite 385
Grand Junction, CO 81506
(970) 241-9298

Lead Verifier: Diana González, Diana.Gonzalez@tuvsud.com

Submitted: June 21st, 2023

Ruby Canyon Environmental, Inc. (RCE) conducted the verification of American Eagle Outfitters GHG Emissions Inventory (Project) according to the requirements found in ISO 14064-3:2019. The objective of this verification was to ensure that the GHG statement is materially correct and conforms to all relevant criteria. The GHG statement is the responsibility of American Eagle Outfitters. A summary of the GHG statement is as follows:

- GHG-related activity: AEO is a retail clothing and accessories company based in Pittsburg, Pennsylvania. AEO's Scope 1 and 2 inventory boundary includes global facilities open during the fiscal year. AEO's operational components (facilities) include Scope 1 emissions from stationary combustion, mobile combustion, and refrigerants; Scope 2 emissions were calculated using market-based and location-based approach.
- GHG statement: 02/01/2022 – 01/31/2023
- Criteria:
 - The Greenhouse Gas Protocol (GHG Protocol): Corporate Accounting and Reporting Standard, World Resources Institute and World Business Council for Sustainable Development, March 2004.
 - ISO 14064-3:2019 "Greenhouse gases – Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions".
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The data and information supporting the GHG statement were historical and estimated in nature.

Based on the examination of the evidence, nothing comes to RCE's attention which gives cause to believe that the GHG statement is not a fair representation of GHG data and information.

RCE confirms that there is no evidence that the GHG statement has not been prepared:

- Without material discrepancy,
- In accordance with all applicable criteria, and
- Verified to a limited level of assurance.

The verified GHG statement is summarized below.

GHG Emissions Category	GHG Emissions (metric tons CO ₂ e)	
	Emissions (mtCO ₂ e)	Emissions (mtCO ₂ e)
Scope 1 GHG Emissions		
Stationary combustion	7,849	7,849
Mobile combustion - corporate aircraft	2,166	2,166
Mobile combustion - fleet vehicles	903	903
Refrigerants	1,425	1,425
Subtotal	12,343	12,343
Scope 2 GHG Emissions	Market-Based Emissions (mtCO₂e)	Location-Based Emissions (mtCO₂e)
Electricity	45,436	58,220
Chilled Water	39	39
Subtotal	45,476	58,259
Total Scope 1 and 2 GHG Emissions	57,819	70,602

Lead Verifier



Diana Xareni González Cuevas

Independent Reviewer



Michael Coté

ADDITIONAL SUPPLY CHAIN DATA

1. Coal Phase-out

Number of suppliers using coal in Tier 1 & 2

Country	Number of Suppliers
China	6
India	2
Indonesia	4
Pakistan	2
Turkey	1
Vietnam	14
Total	29

Current Progress:

- 11 suppliers have already phased out coal by using alternative energy sources including natural gas, biomass and onsite solar energy
- 12 suppliers have started phasing out coal by using alternative fuels
- 6 suppliers are still working on phase out plans and looking for alternative fuels available in their market

Barriers for coal phase-out:

- Unavailability / unstable supply of alternative energy (e.g. natural gas, biomass)
- Investment required for new boilers
- Lack of space for new boilers and related equipment
- Cost increase due to fuel switch and maintenance cost

2. Scope 3 Breakdowns

Scope 3 Emissions Breakdown by Country (metric tons CO₂e)¹

Country	2022
Vietnam	52,852
Bangladesh	46,515
China	23,564
Indonesia	10,178
India	4,984
Pakistan	4,171
Jordan	4,081
Cambodia	2,968
Guatemala	1,763
Others	3,441
Total	154,517

Supply Chain Breakdown by Energy Source

Energy Source	Energy Consumption (MJ)	Percentage of Total Energy	Emissions (metric tons CO ₂ e)	Percentage of Total Emissions
Coal	323,914,209	19.90%	30,649	22.50%
Biomass	97,785,786	6.00%	276	0.20%
Natural Gas	569,752,321	34.90%	32,438	23.80%
Fuel Oil	184,671,207	11.30%	13,385	9.80%
Renewable	8,014,550	0.50%	-	-
Electricity	364,926,621	22.40%	55,476	40.80%
Steam	82,438,351	5.10%	3,910	2.90%
Total	1,631,503,045	100.00%	136,134	100.00%

Energy Consumption by Country and Energy Source

Energy Profile	Coal	Biomass	Natural Gas	Fuel Oil	Renewable	Purchased Steam	Electricity
Vietnam	46%	10%	1%	21%	0%	2%	20%
Bangladesh	0%	0%	79%	4%	0%	0%	18%
China	0%	9%	25%	4%	1%	28%	32%
Indonesia	76%	2%	2%	4%	0%	0%	17%
India	0%	36%	15%	8%	1%	1%	40%
Pakistan	34%	0%	45%	4%	0%	1%	17%
Jordan	0%	0%	0%	69%	3%	0%	28%
Cambodia	0%	15%	0%	10%	1%	15%	59%
Guatemala	0%	15%	22%	0%	0%	0%	62%
Others	0%	0%	30%	4%	1%	0%	65%

Footnotes:

¹ Emissions are location-based