


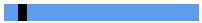

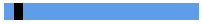


COMPANY OVERVIEW		
Market Cap. (Mil USD)	\$168	D ESG Score
Revenue (Mil USD)	\$1	
No. of Employees	21	A+ ESG Controversies Score
D&I Index Ranking	Not Ranked	
TRBC Ind. Group	Semiconductors & Semiconductor Equipment	D ESG Combined Score
Countries/ Region	United States of America	
Fiscal Yr. End	2022-12-31	D- Environmental Pillar Score
ESG Reporting Scope		
		D Social Pillar Score
		C+ Governance Pillar Score

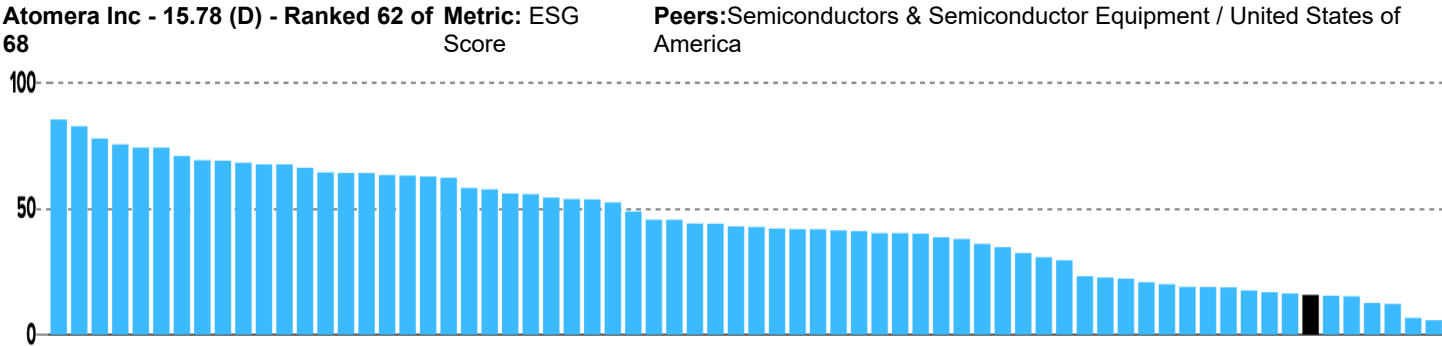
**ESG SUMMARY**

Atomera Inc is a(n) Semiconductors & Semiconductor Equipment company headquartered in the United States of America. For the fiscal year ended in December 2022, ATOM.O received an ESG score of 15.78 (Grade: D).

Over the last 5 years, the company has an average ESG score of 11.09, and a median ESG score of 10.15. Refinitiv ESG score is calculated as a sum of weighted individual pillar scores. For ATOM.O, Environmental, Social, and Governance pillars are weighted 31.17%, 42.86%, and 25.97% respectively in ESG score weighting, consistent with companies within the Semiconductors & Semiconductor Equipment industry groups.

ATOM.O's controversy score of 100.00 (Grade: A+) is calculated based on total count of controversies related to the company, as collected by Refinitiv ESG team and normalized based on company's market capitalization. Discounted by its controversies, ATOM.O received an ESG Combined score of 15.78 (Grade: D) for the year.

COMPANY RELATIVE PERFORMANCE					
Company Ranking Compared to	Refinitiv ESG Universe	Refinitiv ESG Universe	Semiconductors & Semiconductor Equipment	United States of America	Semiconductors & Semiconductor Equipment / United States of America
Number of Companies	11751		222	3403	68
ESG Combined Score	10879		208	3074	62
ESG Score	10896		208	3087	62
Environmental Pillar Score	10494		212	2605	62
Social Pillar Score	11225		204	3325	64
Governance Pillar Score	6493		142	1788	47
ESG Controversy Score	1		1	1	1



## YEAR-OVER-YEAR ESG PERFORMANCE - ATTRIBUTION

Pillar	Category	FY2022	FY2021	Y/Y Change	Score Weight	Attribution	
Summary	ESG Score	15.78	10.15	5.63	100.0%	5.6	<div> <div></div> <div></div> </div>
Env.	Resource Use	0.00	0.00	0.00	9.5%	0.0	<div> <div></div> <div></div> </div>
Env.	Emissions	0.00	0.00	0.00	9.5%	0.0	<div> <div></div> <div></div> </div>
Env.	Env. Innovation	0.00	0.00	0.00	12.1%	0.0	<div> <div></div> <div></div> </div>
Social	Workforce	3.83	1.65	2.18	10.0%	0.2	<div> <div></div> <div></div> </div>
Social	Human Rights	0.00	0.00	0.00	15.6%	0.0	<div> <div></div> <div></div> </div>
Social	Community	36.71	39.86	(3.15)	8.7%	-0.3	<div> <div></div> <div></div> </div>
Social	Product Responsibility	4.74	5.17	(0.43)	8.7%	0.0	<div> <div></div> <div></div> </div>
Gov.	Management	57.68	33.10	24.58	17.3%	4.3	<div> <div></div> <div></div> </div>
Gov.	Shareholders	35.09	6.89	28.20	5.2%	1.5	<div> <div></div> <div></div> </div>
Gov.	CSR Strategy	0.00	0.00	0.00	3.5%	0.0	<div> <div></div> <div></div> </div>

## YEAR-OVER-YEAR ESG PERFORMANCE - MATERIAL FACTORS

Changes in company's year-over-year ESG scores are driven by two factors: Company's relative ranking against its peers, and changes in underlying data as reported by company. In the table below, "Metric Score" section identifies material changes in scores and the "Metric Value" section highlights any changes in the underlying values. Materiality is defined as any directional changes in scores greater than 8.33 (approximately one letter grade).

Pillar	Category	Metric Name	Metric Score			Metric Value		
			FY2022	FY2021	YoY Change	FY2022	FY2021	YoY Change
Social	Workforce	Net Employment Creation	55.97	3.40	52.57	10.53%	-9.52%	20.05%
Gov.	Management	Board Size More Ten Less Eight	13.68	23.32	(9.64)	3	2	1
Gov.	Management	Board Gender Diversity, Percent	87.63	76.87	10.76	40.00%	33.33%	6.67%
Gov.	Management	Non-Executive Board Members	38.04	15.33	22.71	83.33%	75.00%	8.33%
Gov.	Management	Independent Board Members	51.08	10.58	40.50	83.33%	62.50%	20.83%
Gov.	Management	CEO Compensation Link to TSR	54.12	0.00	54.12	TRUE	FALSE	Yes
Gov.	Shareholders	Shareholders Vote on Executive Pay	56.43	0.00	56.43	TRUE	FALSE	Yes
Gov.	Shareholders	Anti Takeover Devices Above Two	85.15	58.15	27.00	4	6	(2)

## PERFORMANCE DRIVER SUMMARY

ATOM.O's ESG score changed from previous year's 10.15 to 15.78, improving marginally, driven by changes in 5 of the 10 ESG categories.

Relative improvements in Shareholders, Management, Workforce categories were partially offset by relative deteriorations in Community, Product Responsibility categories (See Year-Over-Year ESG Performance - Attribution section for details)

At the metrics level, changes in 47 out of 152 number of metric scores are the primary drivers for category and summary score changes.

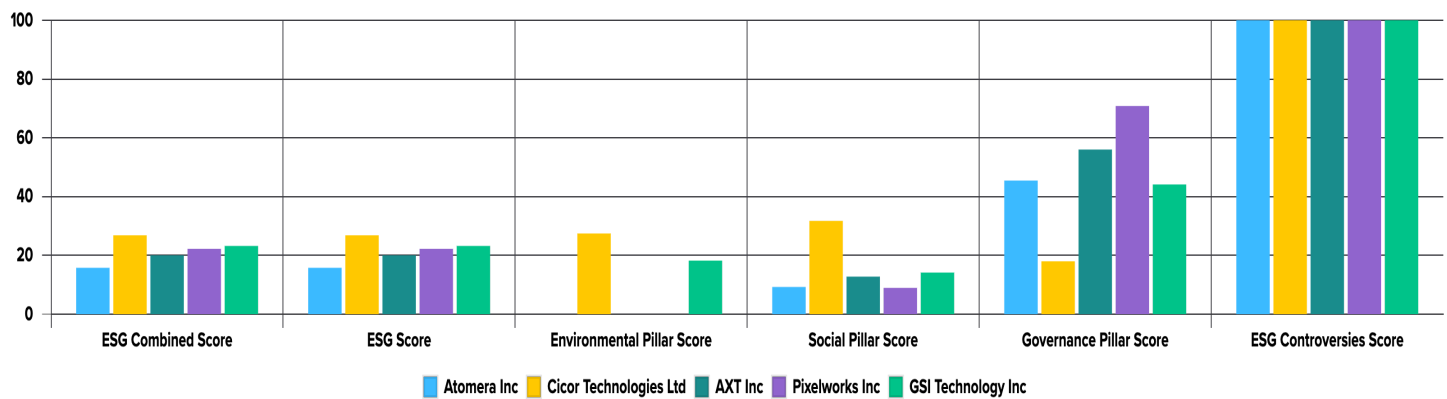
Of the 47 metrics identified, changes in relative ranking against peers drove 35 number of changes while changes in underlying reported metric values drove the rest (See Year-Over-Year ESG Performance - Material Factor section for details)

Please note changes in ESG scores are driven by two primary factors: Changes in underlying company-reported metric values and/or their relative ranking to the peer group.

## PEER SUMMARY

### Closest four peers by market capitalization and Semiconductors & Semiconductor Equipment

	ATOM.OQ	CICN.S	AXTI.OQ	PXLW.OQ	GSIT.OQ
	Atomera Inc	Cicor Technologies Ltd	AXT Inc	Pixelworks Inc	GSI Technology Inc
Company Market Cap (Mil USD)	\$168	\$202	\$187	\$150	\$105
Total Revenue (Mil USD)	\$1	\$339	\$76	\$60	\$30
ESG Combined Score	15.78	26.84	20.03	22.24	23.22
ESG Score	15.78	26.84	20.03	22.24	23.22
Environmental Pillar Score	0.00	27.46	0.00	0.00	18.23
Social Pillar Score	9.26	31.74	12.78	8.95	14.16
Governance Pillar Score	45.47	17.99	56.02	70.84	44.14
ESG Controversies Score	100.00	100.00	100.00	100.00	100.00

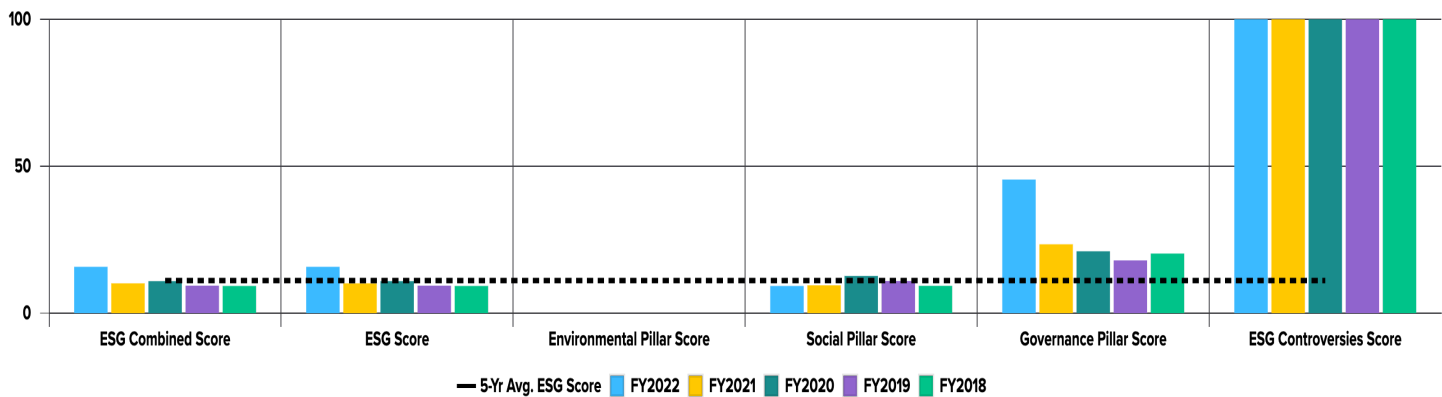


## PEER DETAIL

	ATOM.OQ	CICN.S	AXTI.OQ	PXLW.OQ	GSIT.OQ
	Atomera Inc	Cicor Technologies Ltd	AXT Inc	Pixelworks Inc	GSI Technology Inc
Policy Water Efficiency	FALSE	TRUE	FALSE	FALSE	FALSE
Policy Energy Efficiency	FALSE	TRUE	FALSE	FALSE	FALSE
Targets Water Efficiency	FALSE	FALSE	FALSE	FALSE	FALSE
Targets Energy Efficiency	FALSE	FALSE	FALSE	FALSE	FALSE
Total Energy Use To Revenues USD in million	--	--	--	--	--
Renewable Energy Use Ratio	--	--	--	--	--
Water Use To Revenues USD in million	--	--	--	--	--
Water Recycled	--	--	--	--	--

## HISTORIC PERFORMANCE

	FY2022	FY2021	FY2020	FY2019	FY2018
Period End Date	2022-12-31	2021-12-31	2020-12-31	2019-12-31	2018-12-31
Historic Market Cap (Mil USD)	\$148	\$467	\$345	\$53	\$43
Total Revenue (Mil USD)	\$0	\$0	\$0	\$1	\$0
ESG Combined Score	D	D	D	D	D
ESG Score	D	D	D	D	D
Environmental Pillar Score	D-	D-	D-	D-	D-
Social Pillar Score	D	D	D	D	D
Governance Pillar Score	C+	D+	D+	D+	D+
ESG Controversies Score	A+	A+	A+	A+	A+



## HISTORIC PERFORMANCE SUMMARY

Over the last 5 reporting periods, ATOM.O has an average ESG score of 11.09, ranging from a high of 15.78 (FY2022) to a low of 9.26 (FY2018).

Of the three pillars that make up the overall ESG score, Governance pillar performed the best, with an 5-year average score of 25.64, followed by Social pillar (Average score: 10.33) and then Environmental pillar (Average score: 0.00).

By category and on average, Community, Shareholders, and Management are the three best performing categories over the last 5 years while CSR Strategy, Human Rights, and Env. Innovation are the three laggard categories during the same period.

## CONTROVERSIAL BUSINESS PRACTICES

Does the company engage in any controversial business activities? **No**

Did the company have any controversies in violation of the Ten Principles of the UN Global Compact?

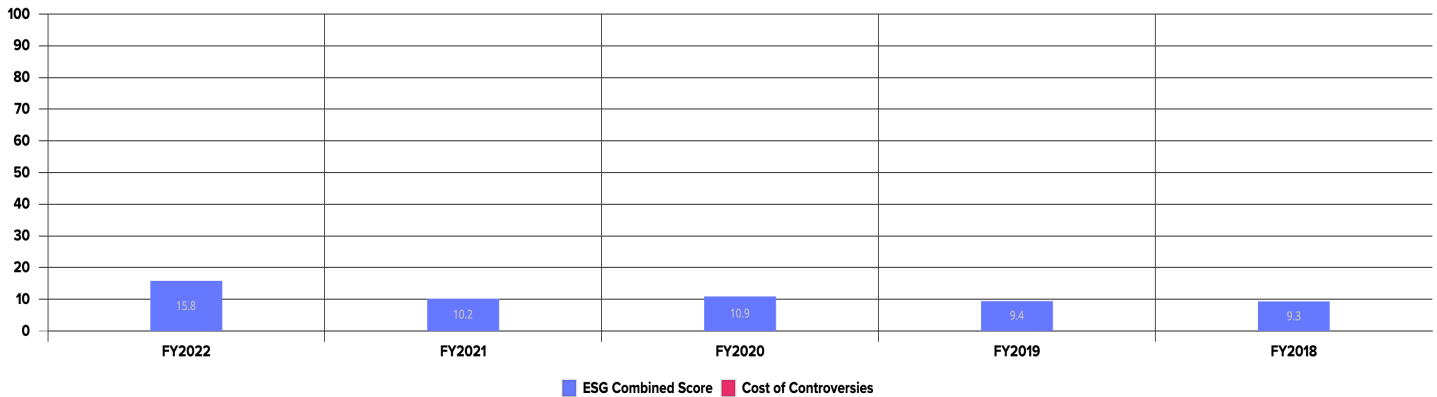
**No**

## ESG CONTROVERSIES

Bad press can be costly to companies. Controversies reported in the media can bring damages to reputation, future business opportunities, and ultimately the bottom line.

ESG controversies score aims to recognize these potential damages, and account for these factors in the scoring of a company's overall ESG performance. From a scoring perspective, controversies could significantly impact a company's overall rating in a negative way.

Below is a list of controversies collected from the public domain.



## ESG CONTROVERSIES DETAILS

Fiscal Period	Source Date	Category	Title	Link
FY2022	2022-04-26	Shareholders - Controversies	Profit Warnings	<a href="#">Atomera Inc expected to post a loss of 16 cents a share - Earnings Preview - Reuters News</a>

## ESG METHODOLOGY

Refinitiv's ESG Scores are designed to transparently and objectively measure a company's relative ESG performance across ten themes based on company reported data. Below document provides detailed information on ESG scoring methodology.

[ESG Scores Methodology](#)

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