

Environmental Report 2023

Then, Now & Beyond



ESPI's Current Status - FY 24

- Calculated Scope 1 and 2 emissions for the last five FYs.
- Process is in place for continuous monitoring of Scope 1 and 2 emissions.
- Evaluated existing sustainability initiatives and quantified them.
- Set near-term emission reduction targets, validated by SBTi.
- Conducted energy audit to identify opportunities for reducing energy consumption.
- Strategizing increased solar panel installations to raise renewable electricity share from 19% in 2022.



Performance Details

- 1. Emission
- 2. Energy



Emission Performance

	Jan'23 - Dec'23	Jan'22 - Dec'22
Scope 1 Emissions (tCO2e)	253.68	263.59
Scope 2 Emissions (tCO2e)	681.87	801.43
Scope 3 Emission (tCO2e)*	-	-
Total Emissions S1 +S2 (tCO2e)	936	1065

*We will be disclosing our scope 3 emissions in the coming years.



Energy Performance

	Jan'23 - Dec'23	Jan'22 - Dec'22	
Non Renewable			
Electricity	8,14,300 kWh	8,75,885 kWh	
Fuel	1,097 GJ	1,657 GJ	
Renewable			
Electricity	2,62,994 kWh	2,06,645 kWh	



Phase-wise Progress

- 1. Emission calculation
- 2. Baselining and target preparation
- 3. Reduction action plan



Phase 1: Emission Calculation

Data Used for Emission Calculation

Fossil Fuel (Scope 1)

- Diesel (Gen-sets & boilers): Apr'18 Dec'23
- Diesel (Company owned vehicles): Nov'09 Dec'23
- LPG: May'18 Dec'23

Fugitives (Scope 1)

- Fire Suppressants: Jan'18 Dec'23
- Refrigerants: Feb'18 Dec'23

Electricity (Scope 2)

- Non-renewable: Mar'18 Dec'23
- Renewable: Oct'18 Dec'23



Scope 3 Emission Calculation

We have identified the following Scope 3 emission sources relevant to Espi's operations:

- Business travel
- Employee commute
- Goods & services purchased
- Waste
- Water

Our focus would be on measuring, analyzing, hotspot identification, and reducing emissions from these sources as well in FY 24-25.



ESPI's Emission Dashboard



Phase 2: Baselining and Target Preparation



Base Year Scenarios

If base year is	Target year	Base year emission	Expected reduction % from base year	Target year emission
2018	2030	818	50%	406
2019	2030	948	46%	510
2020	2030	1093	42%	634
2021	2030	1288	42%	747
2022	2030	1065	42%	692

*All emission values are in tCO2e

2021 is the most recent year which represents the company's typical GHG profile and has sufficient forward-looking ambition to reach net zero by 2050. And as per the SBTi guideline we have chosen 2021 as a base year.



Base Year Scenarios



Why 2021 is chosen as base year: As per SBTi's recommendation the most recent year with the company's typical GHG profile, having sufficient forward-looking ambition should be chosen as the base year.



Final Target - Approved by SBTi



ESPI commits to reduce scope 1 and scope 2 GHG emissions by 42% in 2030 from a 2021 base year, and to measure and reduce its scope 3 emissions.



A Leader in the Pharma Sector

Near-term target 👻 Date published 👻	Net-zero target 👻	Temperature alignm	- SME x	Pharmaceuticals, Bio >	< Scope - H	Region 👻 India, Asia	×
COMPANY 🔶	N	EAR-TERM TARGET	D 🗘 NE	T-ZERO TARGET 🛈	ORGAN	NIZATION TYPE	
Espi Industries & Private Limited India, Asia	Chemicals	TARGETS SET		-		SME	View less 4
Organization type: SM Sector: Pharmaceutica Sciences Company temperature Business Ambition for TARGETS / COMMITM	IE als, Biotechnology and Lif a alignment: 1.5°C r 1.5°C commitment: X IENTS	Target langue validation rout https://scienc Chemicals Pri emissions 429 its scope 3 en	Ige: This target was ap te exclusive to small an ebasedtargets.org/fac vate Limited commits % by 2030 from a 2021 nissions.	oproved using a streamlined nd medium-sized enterprise Is-for-smes/ Espi Industries to reduce scope 1 and scop base year, and to measure	target s (SMEs). & e 2 GHG and reduce	Dow	NLOAD ALL DATA 🖪
ACTION	STATUS	TARGET	SCOPE	TARGET CLASSIFICATION	BASE YEAR	TARGET YEAR	DATE PUBLISHEE
Target	-	Absolute	1+2	1.5°C	2021	2030	2023-10-05
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- **1st and only** SME in the Pharma sector to get SBTi approval in India.
- 1st Indian company in the Pharma sector with an approved 1.5°C scenario target.
- 2 more Indian companies (non-SME) in the pharma sector with approved target aligned with 2°C.
- 11 Indian companies (non-SME) in the Pharma sector who have committed to set a target (but haven't set one yet).



Approach, Tools & Standards Used

- **Base Year Selection:** Methodology for selecting the base year adheres to SBTi's guidelines.
- Target Setting:We used Sprih's target setup tool, which is aligned with the
SBTi guidelines.
- **Emission Calculation:** For accurate calculations, we relied on the GHG Protocol, a recognized standard in the field.
- **Emission Factors:** Emission factors were taken from reputable sources such as the IPCC, UK Defra, etc., ensuring the utmost credibility and reliability.



Phase 3: Reduction Action Plan



Reduction Path - Aligned with SBTi guidelines



We met our 2023 GHG emission reduction goal per SBTi's recommendation and remain on track to achieve our final target by 2030.



Actions Items for FY 23-24

- Conduct sustainability awareness workshops
- 2. Conduct an energy audit
- 3. Implement audit recommendations





Action 1: Awareness Workshop

Hosted a workshop for senior and mid-level management.

Internal dependency:	Senior & mid-level management
External dependency:	Climate experts
Status:	Done
Investment required:	Not applicable (conducted by Sprih)
Payback period:	No direct savings
Annual saving potential:	No direct savings
Annual % reduction as compared to base year:	Not applicable





Auditors conducted a thorough examination of equipment/utility energy consumption and efficiency patterns.

Internal dependency:	Facility management team
External dependency:	Energy auditors
Status:	Done
Investment required:	~3 lakhs
Payback period:	No direct savings
Annual saving potential:	No direct savings
Annual % reduction as compared to base year:	Find details in the next slide





Action 3: Implement Audit Recommendations

Planning to implement all the feasible recommendations from the energy audit report.

Internal dependency:	Senior management
External dependency:	External vendors
Status:	In progress
Investment required:	72 lakhs
Payback period:	4 years
Annual saving potential:	184 tCO2e
Annual % reduction as compared to base year:	14% (if all the recommendations are implemented)

Actions Items for FY 24-25

- 1. Solar deployment
- 2. Tree plantation





Action 1: Solar Deployment

Planning another solar deployment of ~150 kW capacity in FY 2025.

Internal dependency:	Senior management
External dependency:	Solar deployment agencies
Status:	Under discussions
Investment required:	~57 lakhs
Payback period:	~2.5 years
Annual saving potential:	~183 tCO2e
Annual % reduction as compared to base year:	~14%



Action 2: Tree Plantation

Going beyond numbers for a holistically sustainable future

- Plan to partner with a third-party organization for tree plantation to create impact aligned with UN SDGs.





Actions Items for FY 26-27

1. Investment in wind project







Planning to invest in a wind farm project of ~100 kW capacity in FY 2027.

Internal dependency:	Senior management
External dependency:	Agencies involved in wind farm projects
Status:	Being planned
Investment required:	~56 lakhs
Payback period:	~3 years
Annual saving potential:	~122 tCO2e
Annual % reduction as compared to base year:	~9.47%





Thank You!



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