

Surge Alloys Pvt Ltd

SBTi

Our commitment



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Target dashboard



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KEY

COMPANY/FINANCIAL INSTITUTION ▲	TARGETS			ORGANIZATION TYPE ▾	
	NEAR TERM ▾	LONG TERM ▾	NET-ZERO ▾		
Surge Alloys Pvt Ltd India, Asia	1.5°C	-	-	Small or Medium Enterprise	View less ^
Date published/updated 2023	Target summary Near term: 1.5°C by 2030			Target This target was approved using a streamlined target validation route exclusive to small and medium-sized enterprises (SMEs). https://sciencebasedtargets.org/faqs-for-smes/ Surge Alloys Pvt Ltd commits to reduce scope 1 and scope 2 GHG emissions 42% by 2030 from a 2021 base year, and to measure and reduce its scope 3 emissions.	
Sector Electrical Equipment and Machinery					


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Base Year Data

							
Year base: 2021 SURGE ALLOYS PVT LTD - GHG Summary Report 2021 (Current year)							
EMISSION SOURCES	SCOPE	CO ₂	CH ₄	N ₂ O	HFC's	tCO ₂ e	%
ACETYLENE	1	0.0	-	-	-	0	0.00%
NATURAL GAS	1	0.0	0.0000	0.0000	-	0	0.00%
DIESEL (HEAVY VEHICLES & Power Backup) Excluding external or third part transportation	1	98.2	0.0055	0.0379	-	110	2.74%
GASOLINE (OWN VEHICLES) Excluding external or third part transportation	1	0.0	0.0000	0.0000	-	0	0.00%
LPG (Laddle Preheating and Heat treatment) Excluding external or third part transportation	1	777.0	0.7635	0.0025	-	794	19.76%
ELECTRICITY	2	3,113.2	-	-	-	3,113	77.50%
TOTAL		3,988.4	0.77	0.040	-	4,017	
TOTAL EMISSION PER SCOPE							
GHG	GWP	t metric of each GHG			t metric of CO ₂ e		
		Scope 1	Scope 2	Scope 3	Scope 1	Scope 2	Scope 3
CO ₂	1	875.2	3,113.2	-	875.2	3,113.2	-
CH ₄	21	0.77	-	-	16.15	-	-
N ₂ O	310	0.04	-	-	12.51	-	-
HFC (134a)	1300	0.0	-	-	-	-	-
PFCs	-	0.0	-	-	-	-	-
SF ₆	-	0.0	-	-	-	-	-
Total (tCO₂e)					903.9	3113.2	0
EMISSION INDEX							
TOTAL PRODUCTION IN YEAR BASE 2021 (t)		3,376					
TOTAL EMISSIONS OF SCOPE 1 AND 2 (tCO ₂ e)		4,017					
EMISSION INDEX (tCO₂e/t_aço)		1.19					

2024 Data



Year base: 2024

SURGE ALLOYS PVT LTD - GHG Summary Report 2024 (Current year)

EMISSION SOURCES	SCOPE	CO ₂	CH ₄	N ₂ O	HFC's	tCO ₂ e	%
ACETYLENE	1	0.0	-	-	-	0	0.00%
NATURAL GAS	1	0.0	0.0000	0.0000	-	0	0.00%
DIESEL (HEAVY VEHICLES) Excluding external or third part transportation	1	15.4	0.0009	0.0060	-	17	0.37%
GASOLINE (OWN VEHICLES) Excluding external or third part transportation	1	0.0	0.0000	0.0000	-	0	0.00%
LPG (FORKLIFTS AND SIMILAR USES) Excluding external or third part transportation	1	895.7	0.8801	0.0028	-	915	19.72%
ELECTRICITY	2	3,707.7	-	-	-	3,708	79.91%
TOTAL		4,618.8	0.88	0.009	-	4,640	

TOTAL EMISSION PER SCOPE							
GHG	GWP	t metric of each GHG			t metric of CO ₂ e		
		Scope 1	Scope 2	Scope 3	Scope 1	Scope 2	Scope 3
CO ₂	1	911.1	3,707.7	-	911.1	3,707.7	-
CH ₄	21	0.88	-	-	18.50	-	-
N ₂ O	310	0.01	-	-	2.73	-	-
HFC (134a)	1300	0.0	-	-	-	-	-
PFCs	-	0.0	-	-	-	-	-
SF ₆	-	0.0	-	-	-	-	-
		Total (tCO ₂ e)			932.3	3707.7	0

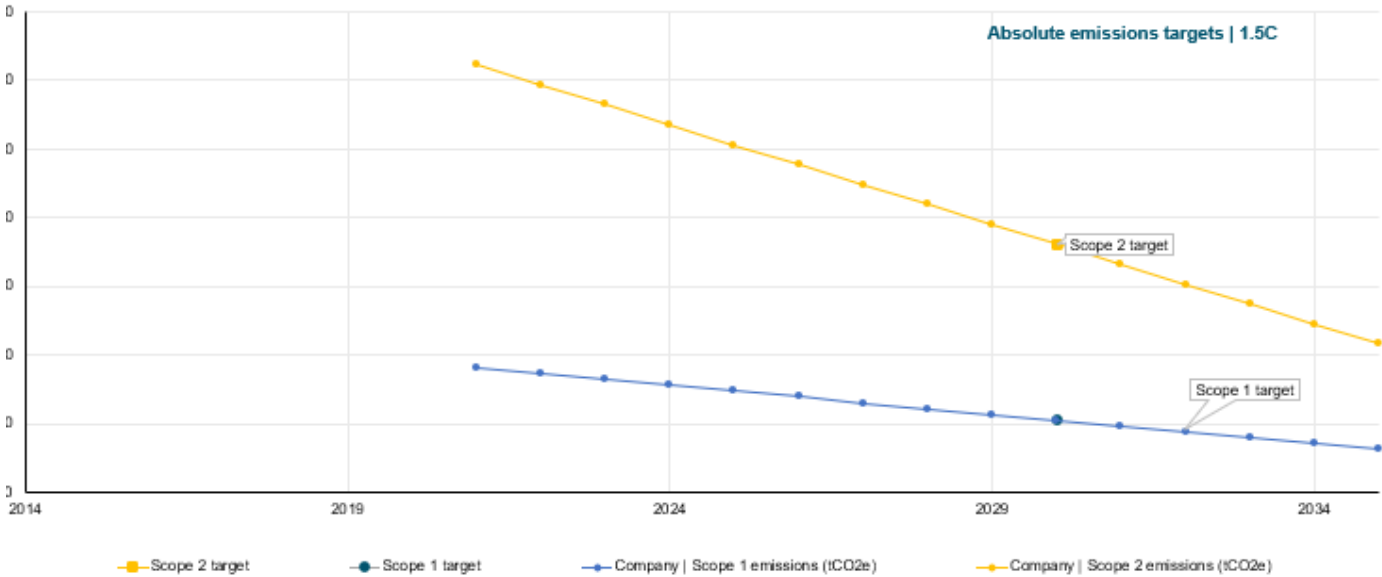
EMISSION INDEX	
TOTAL PRODUCTION IN YEAR BASE 2024 (t)	4,587
TOTAL EMISSIONS OF SCOPE 1 AND 2 (tCO ₂ e)	4,640
EMISSION INDEX (tCO ₂ e/t_aço)	1.01

ite Contraction Approach

rio (1.5C)

[date](#)

	Base year (2021)	Most recent year (2024)	Target year (2030)	% Reduction to date	% FLA Adjustment	% SBT reduction
02e)	904	932	524	-----	Not required	42.0%
02e)	3,113	3,708	1,806	-----	Not required	42.0%
02e)	4,017	4,640	2,330	-15.5%	0.0%	42.0%



Status as on
Date

Analysis

- Contribution in total emission
 - Scope 1 = 20%
 - Scope 2 = 80%
- Factors contributing to Scope 1
 - LPG for heat treatment, scrap cutting, Laddle pre heating, maintenance
 - Diesel for DG set, loader for sand handling
- Factors contributing to Scope 2
 - Electricity

Potential areas for reducing GHG emissions

- Increasing plant efficiency- energy audits, efficiency enhancing actions.
- Generation of electricity inhouse
 - Solar
 - Assuming same efficiency in consumption of LPG and Diesel, 75% of total projected electricity units have to come from green source to achieve the target of 2030
 - Current norms allow to install solar equivalent to contract demand which only covers approx. 25% of total projected electricity demand.
- Renewable energy certificates
- Reduction in country's emission index (Depended on Government Policy)

