Siemens Energy – Sustainability Report 2021: Performance Indicator Overview



					Fiscal year
Performance indicator	Break down	Fiscal year/September 30	Unit	2021	2020
Siemens Energy at a glance					
Revenue	Total	Fiscal year	Billion €	28.5	27.5
Orders	Total	Fiscal year	Billion €	33	34
Order backlog	Total	Fiscal year	 Billion €	84	79
Countries with Siemens Energy presence	Total	Fiscal year	No. (over)	90	90
Research & development					
R&D expenses	Total	Fiscal year	Million €	1,155	985
R&D intensity	Total	Fiscal year	% to revenue	4.1	3.6
Additions to capitalized R&D expenses	Total	Fiscal year	Million €	188	191
R&D employees	Total	September 30	No. (rounded)	5,200	5,200
Patents granted	Total	September 30	No. (rounded)	18,300	16,600
Customer satisfaction					
Customer Net Promotor Score (NPS) ¹	Total	Fiscal year	No.	45	
Greenhouse gas emissions					
Scope 1	Total	Fiscal year	1,000 metric tons CO ₂ e	206	221
	Natural gas/liquid petroleum gas	Fiscal year	1,000 metric tons CO ₂ e	111	_
	Fuel oil, gasoline/diesel	Fiscal year	1,000 metric tons CO ₂ e	21	_
	SF ₆	Fiscal year	1,000 metric tons CO ₂ e	41	66
	Fleet	Fiscal year	1,000 metric tons CO ₂ e	29	29
	Other	Fiscal year	1,000 metric tons CO ₂ e	4	-

¹ On a range from -100 to 100, subtracting % of scores between 1-6 (Detractors) from % of scores of 9-10 (Promoters).

					Fiscal year
Performance indicator	Break down	Fiscal year/September 30	Unit	2021	2020
Scope 2	Total (market-based)	Fiscal year	1,000 metric tons CO ₂ e	67	71
	Total (local-based)	Fiscal year	1,000 metric tons CO ₂ e	297	291
	Electricity	Fiscal year	1,000 metric tons CO ₂ e	34	_
	District heat	Fiscal year	1,000 metric tons CO ₂ e	32	_
Scope 1+2 ²	Total	Fiscal year	1,000 metric tons CO ₂ e	273	292
	Intensity	Fiscal year	t CO₂e/€ revenue	0.96x10 ⁻⁵	1.06x10 ⁻⁵
Scope 3 – downstream³	Total	Fiscal year	1,000 metric tons CO ₂ e	1,369,163	927,476
	Intensity	Fiscal year	t CO₂e/€ order intake	0.041	0.027
	Intensity	Fiscal year	t CO₂e/€ revenue	0.048	0.034
Scope 3 – upstream ⁴	Total	Fiscal year	1,000 metric tons CO ₂ e	4,761	4,722
	Intensity	Fiscal year	kg CO₂e/€ PVO spent	0.473	0.476
Fleet					
Number of vehicles	Total	September 30	No. (rounded)	5,4005	5,600
Fleet consume	Total	Fiscal year	1,000 Gigajoule	392.2	402.8
Atmospheric pollutant emissions					
Volatile organic compounds (VOC)	Total	Fiscal year	Metric tons	440	434
Ozone depleting substances (ODS)	Total	Fiscal year	Metric tons (R11 equivalent)	0.027	0.013
Nitrogen oxides (NO _x)	Total	Fiscal year	Metric tons	81	74

² Market-based Scope 2 emissions included.

³ Includes category "Use of Sold Products" only.

⁴ Includes categories "Purchased Goods and Services" and "Transportation and Distribution" only. Without SGRE.

 $^{^{5}}$ As of April 1st 2021, SGRE changed reporting method to only include vehicles > \$5,000 annual lease payments.

					Fiscal year
Performance indicator	Break down	Fiscal year/September 30	Unit	2021	2020
Energy					
Total energy consumption (in GJ)	Total	Fiscal year	1,000 Gigajoule	6,329	5,803
	Intensity	Fiscal year	Gigajoule/€ revenue	2.22x10 ⁻⁴	2.11x10 ⁻⁴
Primary energy (in GJ)	Total	Fiscal year	1,000 Gigajoule	2,362	2,188
	Natural gas/liquid petroleum gas	Fiscal year	1,000 Gigajoule	2,037	1,920
	Fuel oil, gasoline/diesel	Fiscal year	1,000 Gigajoule	280	263
	Biogas	Fiscal year	1,000 Gigajoule	37	_
	Other	Fiscal year	1,000 Gigajoule	5	5
Secondary energy (in GJ)	Total	Fiscal year	1,000 Gigajoule	3,967	3,615
	Electricity	Fiscal year	1,000 Gigajoule	3,279	2,902
	District heating	Fiscal year	1,000 Gigajoule	688	713
Total energy consumption (in MWh)	Total	Fiscal year	1,000 MWh	1,758	1,612
Primary energy (in MWh)	Total	Fiscal year	1,000 MWh	656	608
	Natural gas/liquid petroleum gas	Fiscal year	1,000 MWh	566	533
	Fuel oil, gasoline/diesel	Fiscal year	1,000 MWh	78	73
	Biogas	Fiscal year	1,000 MWh	10	_
	Other	Fiscal year	1,000 MWh	1	1
Secondary energy (in MWh)	Total	Fiscal year	1,000 MWh	1,102	1,004
	Electricity	Fiscal year	1,000 MWh	911	806
	District heating	Fiscal year	1,000 MWh	191	198
Share of renewables	Electricity from renewable sources ⁶	Fiscal year	% of electricity	76	78
	Energy from renewable sources	Fiscal year	% of energy	40	39
Reduced emissions through electricity from renewable sources	Total	Fiscal year	1,000 metric tons CO ₂ e	205	232

⁶ A specification to the extrapolation method has mathematically compensated for the progress achieved in the switch to renewable electricity.

Performance indicator	Break down	Fiscal year/September 30	Unit	2021	Fiscal year 2020
Waste		, ,			
Waste categories		Fiscal year	1,000 metric tons	145	146
	Intensity	Fiscal year	metric tons/€ revenue	5.09x10 ⁻⁶	5.31x10 ⁻⁶
	Non-hazardous waste	Fiscal year	1,000 metric tons	122	121
	Hazardous waste	Fiscal year	1,000 metric tons	18	19
	Construction waste	Fiscal year	1,000 metric tons	3	6
	Other	Fiscal year	1,000 metric tons	3	_
Waste recycling and disposal	Total recycled waste	Fiscal year	1,000 metric tons	114	110
	thereof recycled waste	Fiscal year	1,000 metric tons	76	
	thereof recovered waste	Fiscal year	1,000 metric tons	35	
	thereof reused waste	Fiscal year	1,000 metric tons	3	
	Waste for disposal	Fiscal year	1,000 metric tons	26	31
Total recycling rate	Total ⁷	Fiscal year	% of total waste	82	78
	Hazardous waste	Fiscal year	% of hazardous waste	68	_
Water					
Water consumption	Total	Fiscal year	Million cubic meters	4.10	3.23
	Intensity	Fiscal year	Cubic meters/€ revenue	1.44x10 ⁻⁴	1.17x10 ⁻⁴
	Fresh water	Fiscal year	Million cubic meters	2.99	2.59
	Ground and surface water for cooling (returned to receiving water body chemically unchanged but warmed)	Fiscal year	Million cubic meters	1.08	0.64

⁷ Excluding construction and other waste.

Performance indicator	Break down	Fiscal year/September 30	Unit	2021	Fiscal year 2020
Wastewater	Total	Fiscal year	Million cubic meters	4.06	3.11
	Intensity	Fiscal year	Cubic meters/€ revenue	1.42x10 ⁻⁴	1.13x10 ⁻⁴
	Wastewater from employee facilities	Fiscal year	Million cubic meters	1.50	1.24
	Wastewater from manufacturing processes	Fiscal year	Million cubic meters	0.36	0.31
	Other (incl . losses)	Fiscal year	Million cubic meters	0.67	0.55
	Conditioned cooling water dis- charged as wastewater	Fiscal year	Million cubic meters	0.43	0.36
	Total wastewater without chemically unchanged cooling water	Fiscal year	Million cubic meters	2.99	2.47
	Cooling water (returned to receiving water body, chemically unchanged but warmed)	Fiscal year	Million cubic meters	1.07	0.64
Environmental incidents					
Significant environmental incidents	Total	Fiscal year	No.	2	0
Product stewardship					
Life cycle assessments (LCA)	Total	September 30	No.	124	94
	Full-scale ⁸	September 30	No.	108	82
	Screening ⁹	September 30	No.	16	12
Portfolio coverage by full-scale LCA ¹⁰	Total	September 30	% of total portfolio elements	71	_
Environmental product declarations (EPD)	Total	September 30	No.	105	77
Environment Health and Safety (EHS) management systems					
Employees working at sites covered by ISO 45001 together with ISO 9001 and ISO 14001 ¹¹	Total	September 30	% of employees	75	_

⁸ Full-scale LCAs adopt a comprehensive approach, covering the environmental impacts over the entire life cycle.

⁹ Screening LCAs cover environmentally relevant parts or phases of a product life cycle.

¹⁰ Share of full-scale LCAs is calculated based on the business segment structure. One business segment is considered to be one portfolio element, this portfolio element is considered to be "relevant" for this performance indicator. If full-scale LCAs are available for products of a portfolio element, this portfolio element is considered to be "covered". The share represents the percentage of covered portfolio elements relative to the total number of relevant portfolio elements.

¹¹ Without SGRE. 80% of employees covered at SGRE.

Performance indicator	Break down	Fiscal year/September 30	Unit	2021	Fiscal year 2020
	bleak dowli	riscai yeai/september 50	Ollit	2021	2020
Occupational health and safety (OHS)					
Total Recordable Injury Rate (TRIR) ¹²	Total	Fiscal year	No.	0.51	_
	Employees ¹³	Fiscal year	No.	0.49	_
	Contractors ¹⁴	Fiscal year	No.	0.56	_
Lost Time Injury Frequency Rate (LTIFR) ¹⁵	Total	Fiscal year	No.	0.24	0.27
	Employees ¹³	Fiscal year	No.	0.23	0.27
	Contractors ¹⁴	Fiscal year	No.	0.26	0.24
Occupational Illness Frequency Rate (OIFR) ¹⁶	Employees	Fiscal year	No.	0.11	0.14
High-consequence work related injuries ¹⁷	Total	Fiscal year	No.	0.009	_
Fatalities ¹⁸	Total	Fiscal year	No.	5	5
	Employees ¹³	Fiscal year	No.	_	1
	Contractors ¹⁴	Fiscal year	No.	5	4
Sustainable supply chain management					
Procurement volume	Total	Fiscal year	Billion €	17.3	17.7
Suppliers	Strategic suppliers ¹⁹	September 30	No. (about)	30,000	30,000
Corporate Responsibility Self-Assessments (CRSA) ²⁰	Total	Fiscal year	No.	1,685	1,373
	Europe, C.I.S. ²¹ , Africa, Middle East	Fiscal year	No.	614	395
	Americas	Fiscal year	No.	355	301
	Asia, Australia	Fiscal year	No.	716	677

¹² Number of recordable injuries (TRI) x 200,000/work hours performed. Recordable injuries are accidents that result in a Lost Time, restricted work, or medical treatment.

¹³ Incl. temporary workers; excl. contractors.

¹⁴ Contractors are service providers carrying out work activities in a work environment under the control of the company. SGRE is capturing all contractors, GP is capturing contractors in projects with a volume >5 million € and classified as complex during bid phase.

¹⁵ Number of lost time injuries (LTI) x 200,000/work hours performed. LTIs are accidents that result in at least one lost day of work.

¹⁶ Includes Germany only. Illnesses declared as occupational illness and recognized by an external authority/insurance company or by a physician. Number of occupational illnesses x 200,000/work hours performed.

¹⁷ Work-related serious personal life threatening or life altering injuries as well as injuries as well as injuries with more than 180 days of lost days/restricted work. Excluding fatalities. Number of high-consequence work-related injuries x 200,000/work hours performed. Incl. temporary workers, and contractors.

¹⁸ Excluding cases beyond Siemens Energy's influence. E.g. force majeure, third party violence or outside of Siemens Energy scope of responsibility.

¹⁹ Suppliers with > €10,000 annual volume.

²⁰ To be conducted mainly by suppliers from non-OECD countries with an annual purchasing volume > €50,000. Questionnaires initiated and completed in the year under review.

²¹ Commonwealth of Independent States.

Break down	Fiscal year/September 30	Unit	2021	
Tatal			2021	2020
Total	Fiscal year	No.	424	334
Europe, C.I.S. ²¹ , Africa, Middle East	Fiscal year	No.	227	149
Americas	Fiscal year	No.	98	70
Asia, Australia	Fiscal year	No.	99	115
Total	Fiscal year	No.	157	60
Europe, C.I.S. ²¹ , Africa, Middle East	Fiscal year	No.	48	5
Americas	Fiscal year	No.	24	5
Asia, Australia	Fiscal year	No.	85	50
Total	Fiscal year	No.	85	-
Total	Fiscal year	No.	103	143
Total	Fiscal year	No.	49	65
Warnings	Fiscal year	No.	29	33
Dismissals	Fiscal year	No.	18	30
Other	Fiscal year	No.	2	2
Share of employees that completed training on our Business Conduct Guidelines (BCG)	September 30	% of targeted employees	83	
Share of employees that completed training on Antitrust ²³	September 30	% of targeted employees	95	
Share of employees that completed training on Export Control	September 30	% of targeted employees	85	_
	Europe, C.I.S. ²¹ , Africa, Middle East Americas Asia, Australia Total Europe, C.I.S. ²¹ , Africa, Middle East Americas Asia, Australia Total Total Total Warnings Dismissals Other Share of employees that completed training on our Business Conduct Guidelines (BCG) Share of employees that completed training on Antitrust ²³ Share of employees that completed	Europe, C.I.S.²¹, Africa, Middle East Americas Asia, Australia Fiscal year Total Fiscal year Europe, C.I.S.²¹, Africa, Middle East Fiscal year Americas Americas Fiscal year Americas Fiscal year Asia, Australia Fiscal year Total Fiscal year Total Fiscal year Total Fiscal year Total Fiscal year Other Share of employees that completed training on our Business Conduct Guidelines (BCG) Share of employees that completed training on Antitrust²³ September 30 Share of employees that completed	Europe, C.I.S.21, Africa, Middle East Americas Fiscal year No. Asia, Australia Fiscal year No. Total Fiscal year No. Europe, C.I.S.21, Africa, Middle East Fiscal year No. Americas Fiscal year No. Americas Fiscal year No. Americas Fiscal year No. Total Fiscal year No. Share of employees that completed training on Antitrust23 Share of employees that completed training on Antitrust23 Share of employees that completed training on Antitrust23 September 30 % of targeted employees Share of employees that completed training on Antitrust23 September 30 % of targeted employees	Europe, C.I.S.21, Africa, Middle East Fiscal year Americas Fiscal year Asia, Australia Fiscal year Total Fiscal year Fiscal year No. 99 Total Fiscal year No. 48 Americas Fiscal year No. 49 Total Fiscal year No. 49 Total Fiscal year No. 49 Warnings Fiscal year No. 49 Warnings Fiscal year No. 49 Warnings Fiscal year No. 49 Share of employees that completed training on aur Business Conduct Guidelines (BCG) September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of employees that completed training on Antitrust ¹² September 30 Share of empl

²¹ Commonwealth of Independent States.

²² We only accept audits that fulfill our requirements and where the full audit documentation is provided to us.

²³ Without SGRE.

Performance indicator	Break down	Fiscal year/September 30	Unit	2021	Fiscal year 2020
Employees ²⁴					
Employee structure		September 30	No. (rounded)	91,000	93,000
	Europe, C.I.S. ²⁵ , Africa, Middle East	September 30	% of total headcount	67	66
	Americas	September 30	% of total headcount	20	21
	Asia, Australia	September 30	% of total headcount	12	13
	Age group <35	September 30	% of total headcount	25	26
	Age group 35-44	September 30	% of total headcount	34	33
	Age group 45-54	September 30	% of total headcount	25	25
	Age group >54	September 30	% of total headcount	17	16
	Average age	September 30	% of total headcount	42.8	42.5
	Women in headcount	September 30	% of total headcount	19.3	19.1
	Women in top leadership positions ²⁶	September 30	% of total employees in top leadership positions	21	21
Working hour programs	Employees working part-time	September 30	% of total headcount	3.3	3.8
	Employees on leave of absence	September 30	% of total headcount	2.4 ²⁷	2.2
Employee fluctuation	Hirings	Fiscal year	No.	7,535	8,991
		Fiscal year	% to average headcount	8.2	9.9
	Europe, C.I.S. ²⁵ , Africa, Middle East	Fiscal year	% of total hires	55.8	
	Americas	Fiscal year	% of total hires	26.5	
	Asia, Australia	Fiscal year	% of total hires	17.7	_
	Women hired	Fiscal year	% of total hires	19.4	19.2

²⁴ All figures in this section refer to the headcount.

²⁵ Commonwealth of Independent States.

²⁶ Without SGRE. Share of women in leadership positions 13% (fiscal year 2020: 12%) at SGRE.

²⁷ Fiscal year 2021 without SGRE. Fiscal year 2020 includes SGRE.

Performance indicator	Break down	Fiscal year/September 30	Unit	2021	Fiscal year 2020
Employee fluctuation	Exits	Fiscal year	No.	9,705	8,411
	Turnover rate	Fiscal year	% to average headcount	10.6	9.2
	Europe, C.I.S. ²⁸ , Africa, Middle East	Fiscal year	% of total exits	51.7	_
	Americas	Fiscal year	% of total exits	29.4	-
	Asia, Australia	Fiscal year	% of total exits	18.9	_
Working contracts	Employees with permanent working contracts	September 30	% of total employees	95.1	94.3
Working hours	Contractually agreed weekly working hours (average)	September 30	No.	39	39
Vulnerable groups	Employees with a disability ²⁹	September 30	No. (about)	1,400	1,400
Collective bargaining agreements	Employees covered by collective barging agreements	September 30	% of total employees	74	
Training and education					
Spend on further education	Total	Fiscal year	Million €	58	60
Average spend on further education per employee	Total	Fiscal year	€ spent/employee	632	654
Training hours	Total	Fiscal year	No.	786,721	_
	On-site	Fiscal year	No.	592,033	_
	Web-based	Fiscal year	No.	194,087	_
Average training hours per employee	Total	Fiscal year	No.	8.6	
	On-site	Fiscal year	No.	6.5	
	Web-based	Fiscal year	No.	2.1	

²⁸ Commonwealth of Independent States.

²⁹ Includes Germany only.

					Fiscal year
Performance indicator	Break down	Fiscal year/September 30	Unit	2021	2020
Apprentices and dual students ³⁰	Total	September 30	No.	2,100	2,165
	Internal	September 30	No.	1,038	998
	External	September 30	No.	1,062	1,167
	Internal, started this fiscal year	Fiscal year	No.	241	229
	External, started this fiscal year	Fiscal year	No.	280	315
Societal engagement					
Donations	Total	Fiscal year	Million €	4.71	5.44
	Europe, C.I.S. ³¹ , Africa, Middle East	Fiscal year	Million €	2.06	3.53
	Americas	Fiscal year	Million €	2.03	1.16
	Asia, Australia	Fiscal year	Million €	0.62	0.76

³⁰ Includes Germany only.

 $^{^{\}rm 31}\,$ Commonwealth of Independent States.