



# 2017 Sustainability Metrics

SUNPOWER®

Over the past century, the global economy's "take, make and dispose" model has tested the limits of our planet's resources. At SunPower, it's our responsibility as good corporate citizens and advocates for a clean energy future to share the steps we are taking to reduce our environmental footprint and build a brighter future for all.

Transparency and data-driven programs are central to these efforts. By collecting and sharing our EHS and sustainability data, our intent is to track our progress and identify ways we can continuously improve our sustainability performance.

## GLOBAL IMPACT

In addition to reducing our environmental footprint, it's important to consider the environmental benefits of our products. By generating electricity from solar instead of fossil fuels, we avoid releasing CO<sub>2</sub> into the Earth's atmosphere. To date, the clean power generated by SunPower's products is equivalent to taking over 9.5 million cars off the road for a year.<sup>1</sup>

Impact	2017
Cumulative terawatt-hours generated	60.1
Tons of CO <sub>2</sub> avoided annually	7,618,461
Tons of CO <sub>2</sub> avoided cumulatively	34,639,670

## CARBON FOOTPRINT

Emissions	2017
Scope 1 GHG Emissions (metric tons)	208
Scope 2 GHG Emissions (metric tons)	232,475
Scope 3 GHG Emissions (metric tons)*	687
Total GHG Emissions (metric tons CO <sub>2</sub> )	233,369
Total GHG Emissions (metric tons CO <sub>2</sub> ) per MW	192.23

Energy Use	2017
Total energy use (MWh)	356,809
MWh used per MW produced	293
% of Energy from Onsite Renewables	0.7%

# WATER

Water Use	2017
Total Water Use (US Gallons)	1,859,095,433
Total Water Use (US Gallons) per MW	1,531,380.09

Wastewater Discharge Volume	2017
Total Discharge Volume (m <sup>3</sup> )	7,037,197
Normalized Discharge Volume (m <sup>3</sup> /MW)	5,796.70

2017 Wastewater Discharge Quality Indicators	Fab 4	France ModCo	Fab 3	SPMX	SPMX2
Chemical Oxygen Demand (mg/L)	47	NR	45.222	ND	<10.0
Biological Oxygen Demand (mg/L)	0.24	NR	14.333	<20.00	<5.0
Total Suspended Solids (mg/L)	12	NR	16.667	<17.00	<12.0

2017 Waste Water Heavy Metals (mg/L)	Fab 4	France ModCo	Fab 3	SPMX	SPMX2
Arsenic	<0.01	NR	0.033756	<0.005	<0.1
Barium	<0.08	NR	0.338808	ND	ND
Cadmium	<0.006	NR	0.004668	<0.1	<0.05
Hexavalent Chromium	<0.003	NR	0.033756	<0.35	<0.1
Copper	0.13	NR	0.341759	<0.1	<0.1
Lead	<0.05	NR	0.041381	<0.2	<0.1
Mercury	<0.002	NR	0.000992	<0.001	<0.00078
Nickel	<0.03	NR	0.073436	<0.1	<0.2
Selenium	<0.01	NR	0.01466	ND	ND
Silver	not monitored	NR	0.040055	ND	ND
Tin	not monitored	NR	0.077773	ND	ND
Zinc	0.02	NR	0.681732	<0.1	<0.1

Data is provided for all locations with process wastewater discharges. There were no indicators above regulatory limits.

\* = Monthly sampling values were averaged. \*\* = Sampling points were averaged.

# WASTE

Waste Generation	2017
Total solid waste generated (metric tons)	6,556
Total solid waste recycled (metric tons)	5,828
Percent solid waste recycled (%)	89%
Tons of solid waste generated per MW (metric tons/MW)	5.4
Total hazardous waste generated (metric tons)	8,051
Total hazardous waste recycled (metric tons)	6,590
Percent hazardous waste recycled (%)	82%
Total hazardous waste generated per MW (metric tons/MW)	6.5

Visit [sunpower.com/sustainability](http://sunpower.com/sustainability) for more information.

<sup>1</sup> Based on estimated generation of 60,000,000+ MWh converted to equivalent greenhouse gas emissions offsets, according to the EPA's Greenhouse Gas Equivalencies Calculator.

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