



# 2018 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 products is equivalent to taking over 11 million cars off the road for a year.<sup>1</sup>

Impact	2018
Cumulative terawatt-hours generated	74.6
Tons of CO <sub>2</sub> avoided annually	8,963,673
Tons of CO <sub>2</sub> avoided cumulatively	43,600,021

## CARBON FOOTPRINT

Emissions	2018
Scope 1 GHG Emissions (metric tons)	1,394
Scope 2 GHG Emissions (metric tons)	218,445
Scope 3 GHG Emissions (metric tons)	1,748
Total GHG Emissions (metric tons CO <sub>2</sub> )	221,588
Total GHG Emissions (metric tons CO <sub>2</sub> ) per MW	188.59

Energy Use	2018
Total energy use (MWh)	306,376
MWh used per MW produced	273
% of Energy from Onsite Renewables	0.7%

# WATER

Water Use	2018
Total Water Use (US Gallons)	1,408,584,336
Total Water Use (US Gallons) per MW	1,198,795.18

Wastewater Discharge Volume	2018
Total Discharge Volume (m <sup>3</sup> )	5,542,267
Normalized Discharge Volume (m <sup>3</sup> /MW)	4,716.82

2018 Wastewater Discharge Quality Indicators	Fab 4	France ModCo	Fab 3	SPMX	SPMX2
Chemical Oxygen Demand (mg/L)	43	NR	45.22	ND	<10.0
Biological Oxygen Demand (mg/L)	21	NR	14.33	<20.00	<5.0
Total Suspended Solids (mg/L)	12	NR	16.67	<17.00	<12.0

2018 Waste Water Heavy Metals (mg/L)	Fab 4	France ModCo	Fab 3	SPMX	SPMX2
Arsenic	<0.01	NR	0.048	<0.004	<0.1
Barium	<0.08	NR	0.459333	ND	ND
Cadmium	<0.006	NR	0.005111	<0.1	<0.05
Hexavalent Chromium	<0.003	NR	0.044556	<0.35	<0.1
Copper	0.1	NR	0.389889	<0.1	<0.1
Lead	<0.05	NR	0.047111	<0.2	<0.1
Mercury	<0.002	NR	0.000967	<0.001	<0.00078
Nickel	<0.03	NR	0.090222	<0.1	<0.2
Selenium	<0.01	NR	0.009	ND	ND
Silver	not monitored	NR	0.046667	ND	ND
Tin	not monitored	NR	0.102111	ND	ND
Zinc	0.02	NR	0.889778	<0.1	<0.1

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

# WASTE

Waste Generation	2018
Total solid waste generated (metric tons)	5,685
Total solid waste recycled (metric tons)	5,080
Percent solid waste recycled (%)	89%
Tons of solid waste generated per MW (metric tons/MW)	4.8
Total hazardous waste generated (metric tons)	7,714
Total hazardous waste recycled (metric tons)	6,525
Percent hazardous waste recycled (%)	85%
Total hazardous waste generated per MW (metric tons/MW)	6.6

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

<sup>1</sup> Based on estimated generation of 74,600,000 MWh converted to equivalent greenhouse gas emissions offsets, according to the EPA's Greenhouse Gas Equivalencies Calculator.

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