

# METRICS: Minimizing environmental impact



Independently assured metric by **KPMG**

Category / Metric	FY20 Data	FY21 Data	FY22 Data	
<b>Waste (Metric Tons)</b>				
Total Waste Generated	87,000	87,300	85,510	<input checked="" type="checkbox"/>
Total Regulated Waste Generated	43,200	41,300	37,510	<input checked="" type="checkbox"/>
Total Non-Regulated Waste Generated	43,800	46,000	48,000	<input checked="" type="checkbox"/>
Percent Waste Recycled	34%	37%	36%	<input checked="" type="checkbox"/>
Percent Waste Sent to Landfill	21%	21%	22%	<input checked="" type="checkbox"/>
<b>Significant Spills and Releases</b>				
Number of Written Notices of Violation (NOVs) or Citations Received	6	2	8	<input checked="" type="checkbox"/>
Total Number and Volume of Significant Spills	0	0	0	<input checked="" type="checkbox"/>
<b>Product stewardship (tons)<sup>1</sup></b>				
Total amount of product accepted for take-back, reuse, or disposal (Calendar Year)	239	245	440	

See our [Statements and Notes on FY2022 Environmental Metrics](#) for more information on our boundaries, basis of presentation and estimations.

<sup>1</sup>Data are for the total collection and disposal of unwanted household pharmaceutical products and sharps by more than 250 companies in the pharmaceutical industry, including Takeda.

# METRICS: Decarbonizing



Independently assured metric by **KPMG**

Category / Metric	FY20 Data	FY21 Data	FY22 Data	
<b>Scope 1 &amp; 2 Emissions (Thousand MTCO<sub>2</sub>e)</b>				
Total GHG Emissions <sup>1</sup>	4,909	5,210	5,612	
Scope 1 Emissions	293	316	277	☑
CO <sub>2</sub>	289	302	N/A	
CH <sub>4</sub>	0	0	N/A	
N <sub>2</sub> O	0	0	N/A	
Refrigerants (HFCs, CFCs, HCFCs)	15	14	N/A	
Scope 2 Emissions - location-based methodology	271	283	291	☑
Scope 2 Emissions - market-based methodology	217	178	169	☑
<b>Energy (Terajoules)</b>				
Total Energy Consumption	8,000	8,280	7,952	☑
Purchased Electricity (Non-Renewable)	2,100	1,780	1,600	☑
Purchased Electricity (Renewable)	836	1,300	1,490	☑
Onsite Generated Renewable Electricity	4	5	17	☑
Percent Electricity Sources as Renewable	30%	42%	48%	☑
Percent Electricity as Renewable including Renewable Energy Certificates (RECs) <sup>2</sup>	100%	100%	In progress	
Supplied Heating and Cooling	100	102	145	☑
Fuel Consumption	4,960	5,100	4,700	☑
<b>Scope 3 Emissions (Thousand MTCO<sub>2</sub>e)</b>				
Scope 3, all applicable categories	4,380	4,716	5,166	
Category 1	3,710	4,070	4,060	☑
Category 2	50	35	217	☑
Category 4	458	341	387	☑
Category 7	43	77	85	☑
Category 10	6	14	1	☑
All other applicable categories	115	179	416	☑
<b>Supplier Engagement (Thousand MTCO<sub>2</sub>e)</b>				
Scope 3 Emissions from Categories 1, 2 and 4 <sup>3</sup>	N/A	N/A	4,664	
Scope 3 Emissions from Suppliers Committed to Adopting Science-Based GHG Emissions Reduction Targets [Categories 1, 2 and 4] <sup>3</sup>	N/A	N/A	2,122	
<b>Carbon Neutrality<sup>2</sup></b>				
Purchased Verified Emissions Reductions (VERs) - Thousand MTCO <sub>2</sub> e	4657	5,033	In progress	☑
Purchased RECs – Megawatt hours	606,944	522,693	In progress	☑
Percentage Reported GHG Emissions Mitigated by Purchased VERs and RECs	100%	100%	In progress	☑

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<sup>1</sup>Total GHG emissions calculated using the scope 2 market-based total.

<sup>2</sup>Takeda is committed to mitigating all scope 1, 2 and 3 GHG emissions through the procurement of renewable energy certificates (RECs) and verified emission reductions (VERs). Verification for carbon neutrality covers FY20 data. Procurement of necessary RECs and VERs for FY21 is in progress and will be independently verified when complete.

<sup>3</sup>Metrics newly collected from FY22 onwards

# METRICS: Conserving natural resources



Independently assured metric by **KPMG**

Category / Metric	FY20 Data	FY21 Data	FY22 Data	
<b>Water (Thousand Cubic Meters)</b>				
Water Withdrawal	10,770	11,300	10,430	<input checked="" type="checkbox"/>
Water Withdrawal in Areas with High-Extremely High Water Risk	1,180	1,090	1,707	
Water Withdrawal in Areas with High-Extremely High Water Risk (% of total water withdrawal)	11%	10%	16%	
Water Consumed <sup>1</sup>	2,280	2,710	2,240	
Water Consumed in Areas with High-Extremely High Water Risk	174	165	264	
Water Consumed in Areas with High-Extremely High Water Risk (% of total water consumed)	8%	6%	12%	
% of manufacturing sites located in areas considered to have “high” or “extremely high” water risk	20%	20%	34%	<input checked="" type="checkbox"/>
Wastewater Discharged	8,490	8,580	8,190	<input checked="" type="checkbox"/>
<b>Biodiversity</b>				
Number of sites owned, leased or managed in or adjacent to protected areas and/or key biodiversity areas	N/A	29	29	
Area of sites owned, leased or managed in or adjacent to protected areas and/or key biodiversity areas (hectares)	N/A	329	329	

See our [Statements and Notes on FY2022 Environmental Metrics](#) for more information on our boundaries, basis of presentation and estimations.

<sup>1</sup>Water consumed represents the difference between water withdrawals and wastewater discharges.

# OTHER METRICS: Environmental Management Systems



Category / Metric <sup>1</sup>	FY20 Data	FY21 Data	FY22 Data
<b>Environmental Management Systems</b>			
Number of EHS audits performed <sup>2</sup>	20	24	26
% of manufacturing sites certified to ISO 14001	73%	73%	77%
% of manufacturing sites certified to ISO 50001	3%	3%	6%
% of manufacturing sites certified to ISO 45001	53%	50%	67%

<sup>1</sup>Takeda has elected to use operational control as a reporting boundary guideline for its environmental data and includes:

- For total energy used and scope 1 and scope 2 GHG emissions, the scope of Takeda operations includes all manufacturing and research & development sites, United States and European plasma collection centers, Takeda headquarters, and commercial office locations.
- For all other environmental performance indicators, the scope of Takeda operations includes all manufacturing and research & development sites, United States and European plasma collection centers, and larger commercial offices where such data was available. Contributions from smaller commercial office locations are not included.

<sup>2</sup>EHS audits performed includes internal and external third-party audits managed by the corporate EHS function.

A list of our ISO 14000-45001 Certified Sites can be found [here](#).