## Dane County, Wisconsin Countywide Emissions Inventory for 2017 and 2022

		2017 Emissions Inventory			2022 Emissions Inventory			Percent
Sector	Fuel or	Usage	Usage	Emissions	Usage	Usage	Emissions	Change
	Source		Units			Units		
Residential	Electricity	1,589,146,502	kWh	1,210,605	1,776,399,433	kWh	1,249,415	3%
Energy	Natural Gas	110,334,446	Therms	586,830	131,527,140	Therms	699,547	19%
	Propane	894,759	MMBtu	55,528	1,250,200	MMBtu	77,586	40%
	Distillate Fuel Oil No. 2	207,373	MMBtu	15,440	85,127	MMBtu	6,338	-59%
	Wood	650,615	MMBtu	6,481	171,393	MMBtu	1,707	-74%
Residential Energy Total				1,874,884			2,034,593	9%
Commercial	Electricity	3,133,163,969	kWh	2,386,831	3,285,597,022	kWh	2,233,776	-6%
Energy	Natural Gas	155,117,981	Therms	825,018	176,250,982	Therms	937,417	14%
	Gasoline	781,804	MMBtu	55 <i>,</i> 309	864,869	MMBtu	61,186	11%
	Propane	716,654	MMBtu	44,475	836,513	MMBtu	51,913	17%
	Coal <sup>1</sup>	65,150	MMBtu	6,326	0	MMBTu	0	-100%
	Wood	651,504	MMBtu	6,490	666,374	MMBTu	6,638	2%
	Distillate Fuel Oil No. 2	482,113	MMBtu	35,896	538,771	MMBtu	40,115	12%
Commercial Energy Total				3,360,345			3,331,045	-1%

Using ICLEI ClearPath tool - Detailed Summary of Findings from Production-Based Inventory

<sup>&</sup>lt;sup>1</sup> EIA data reports no coal usage in the commercial sector in 2022.

		2017 Emissions Inventory			2022 Emissions Inventory				Deveent	
Sector	Fuel or Source	Usage	Usage Units	Emissions	Usage	Usage Units	Emissions		Change	
	Electricity	630,899,761	kWh	480,617	538,694,425	kWh	365,898		-24%	
	Natural Gas	16,732,881	Therms	88,809	19,404,504	Therms	102,402		15%	
	Coal	1,299,000	MMBtu	126,123	844,651	MMBtu	82,009		-35%	
Industrial	Wood	3,704,800	MMBtu	7,443	337,110	MMBtu	6,773		-9%	
Energy	Distillate Fuel Oil No. 2	1,670,156	MMBtu	123,981	1,853,747	MMBtu	137,610		11%	
	Kerosene	2,598,020	MMBtu	196,097	2,832,945	MMBtu	213,829		9%	
	Propane	437,422	MMBtu	27,052	418,588	MMBtu	25,887		-4%	
	Gasoline	351,263	MMBtu	24,772	373,739	MMBtu	26,357		6%	
Industrial Energy Total				1,074,894			960,765		-11%	
	Gas				303,431,877	VMT	404,869		-9%	
Transportation	Diesel				3,964,223,932	VMT	1,571,668			
& Mobile Sources	Gas & Diesel <sup>2</sup>			2,160,752						
	Other (including Off Road)			342,131			408,878		20%	
Transportation & Mobile Sources Total				2,502,883			2,385,415		-5%	

<sup>&</sup>lt;sup>2</sup> Dane County's 2017 emissions inventory did not split fuels out by source.

		2017 Emissions Inventory			2022 Emissions Inventory		Demonst	
Sector	Fuel or Source	Usage	Usage Units	Emissions	Usage	Usage Units	Emissions	Change
Water &	Water Supply Energy <sup>3</sup>			149,017			21,298	-86%
Wastewater	Fugitive Emissions						6,633	
Water & Wastewater Total				149,017			27,931	-81%
Solid Waste	Rodefeld <sup>4</sup>			74,509	350,317	Tons	34,720	-53%
	Other						8	
Waste Total				74,509			34,728	-53%
Agriculture	Other⁵			656,236			595,096	-9%
Agriculture Total				656,236			595,096	-9%
Process & Fugitive Emissions	Other			48,958			56,765	16%
Process & Fugitive Emissions Total				48,958			56,765	16%

<sup>&</sup>lt;sup>3</sup> Dane County's 2017 emissions inventory did not detail this emissions calculation. Given the size of these emissions relative to totals we opted to use the value provided by the initial inventory. We suspect that some of the emissions included in this category in 2017 are, in 2022, reported under industrial.

<sup>&</sup>lt;sup>4</sup> The emissions for the Rodefeld landfill are based on data submitted to EPA; the reduction in emissions reflects the aggressive methane capture protocols implemented as part of the Renewable Natural Gas facility.

<sup>&</sup>lt;sup>5</sup> We opted to calculate both the 2017 and the 2022 agricultural emissions using the EPA's State Greenhouse Gas Inventory Tool, June 1, 2023 version. That is the tool the Wisconsin DNR uses to calculate agricultural emissions.

	2017 Emissions Inventory	2022 Emissions Inventory	Percent Change
Total Countywide Emissions (MTCO2e)	9,741,726	9,426,338	-3%
Dane County Population	531,775	568,203	7%
Emissions per person (MTCO2e)	18.32	16.59	-9%