

Metrics: progress towards Sustainable Environment Strategy 2019 – 2024 targets as at 30 June 2022

GREENHOUSE GAS EMISSIONS	Metric	Unit of measure	Baseline	2021/22 Progress update	Target	Target year	Status tracking	Commentary
City operations plus landfill	Net greenhouse gas emissions from operational energy, operational transport and municipal waste	Tonnes of CO ₂ equivalent per year	8,383	6995	0	2030	Not on track to achieve target	<p>Emissions dropped significantly in 2019/20 due to the COVID-related facility shutdowns. Since then, emissions in the transport and waste sectors both decreased, while in energy increased. This increase is likely due to the reopening of facilities, in particular the 'non contestable' community facilities (eg. community centres).</p> <p>As outlined below, emissions expected to be back on target in 2022/23 due to City's new NaturalPower energy contract.</p>

ENERGY	Metric	Unit of measure	Baseline	2021/2022 Progress update	Target	Target year	Status tracking	Commentary
City Operations	Total grid-supplied electricity	Megawatt hours per year	6,401.80	6,114.10	5,761.62	2024	On track	Despite consumption being higher than in 2019/20 (which was impacted by COVID-19 related facility closures), we are still largely on track to meet the 2024 target. In particular as contestable sites (8) were moved to a NaturalPower contract (renewable energy) in April 2022. This will lead to a significant reduction in 2022/23.
	Total natural gas	Gigajoules per year	10,327.73	2,895.40	2,065.55	2024	On track	A decrease of 6% in consumption has been reported for 2021/22 compared to 2020/21 (totalling 170 GJ).
	Solar PV installed on City-owned buildings	Kilowatts	37.50	328.74	400.00	2024	On track	Three solar PV systems installed in 2021/22, with a number of sites deferred to future years.
	Solar energy generation on City-owned buildings	Megawatt hours per year	58.7	460.34	589.80	2024	On track	If solar installations currently planned for 2022-2024 proceed, the 2024 target will be met.
	Greenhouse gas emissions from electricity and gas used by the City's operations	Tonnes of CO ₂ equivalent per year	5,374.85	4,746.36	4,434.25	2024	On track	As natural gas use is minimal compared to electricity, the increase in emission from 2020/21 to 2021/22 is primarily due to increased electricity use resulting from reopening of facilities and return to normal operations following COVID-19 impacts.

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ENERGY	Metric	Unit of measure	Baseline	2021/2022 Progress update	Target	Target year	Status tracking	Commentary
Community	Average grid-supplied household electricity use	Kilowatt hours per day	13.26	13.38	11.93	2024	Not on track	Average household electricity use decreased in 2021/22 after increasing in 2020/21. It may be reflective of residents returning in part to the workplace following covid lockdowns. As working from home continues, it is unlikely the target will be met.
	Percentage of free-standing and semi-attached dwellings with solar PV systems	Percentage	16.9%	-	25.0%	2024	-	Due to changes in the way that this data is provided to the City, it is no longer possible to separate free-standing and semi-attached dwellings from multiple dwellings. Going forward, the uptake of solar by the community will be reported as a percentage of residential accounts with embedded solar PV systems (as provided by Synergy).
	Percentage of all dwellings with solar PV systems Percentage of residential electricity accounts with embedded solar PV systems	Percentage	10.5%	14.6%	15.0%	2024	On track	
	Estimated installed solar capacity	Kilowatts	7,638.00	14,192	12,355	2024	On track	Enthusiastic uptake of solar panels in the community means the community solar targets have been exceeded.
	Estimated electricity displaced from the grid by Vincent households using solar PV	Megawatt hours per year	12,266.60	20,772	19,842.40	2024	On track	
	Greenhouse gas emissions avoided	Tonnes of CO2 equivalent per year	9,200.00	15,579	14,882	2024	On track	

TRANSPORT	Metric	Unit of measure	Baseline	2021/22 Progress update	Target	Target year	Status tracking	Commentary
City Operations	Percentage of the City's passenger vehicle fleet with tailpipe emissions	Percentage	97%	86%	50%	2024	Not on track	This year, the City became the first WA local government to have a 100% hybrid-electric passenger vehicle fleet. Fleet has 4 battery electric vehicles (BEVs), which is 1 car short of being on track. For 2022/23, Fleet will need 10 BEVs to be on track.
Community	Percentage of Vincent residents who use active or public transport to commute	Percentage	33%	23%	TBC	TBC	n/a	The downward trend from baseline to 21/22 is due to COVID and the working from home arrangements decreasing the total amount of transport required.
	Percentage ownership of zero emission vehicles by the community	Percentage	0.065%	Not available for 2021/22	1.00%	2024	On Track	The total number of electric vehicles registered in Vincent is pending the release of data from Dept of Transport. We expect the share of EVs in the City to meet 1%, based on available advice from the RAC.

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WASTE	Metric	Unit of measure	Baseline	2021/22 Progress update	Target	Target year	Status tracking	Commentary
Operational & Community (Municipal)	Total waste to landfill	Tonnes	9,530	7,328	0.00	2028	Not on track	FOGO was rolled out to single residences in November 2021, and to multi unit dwellings from March to June 2022. With FOGO recovery rates averaging 97%, we expect to be track in 2022/23.
	Greenhouse gas emissions associated with the breakdown of organic waste	Tonnes of CO ₂ equivalent per year	2,235.00	1,718.67	223.50	2028		

*This figure assumes that all organic waste will be composted using aerobic processes, resulting in a 90% reduction in greenhouse gas emissions.

WATER	Metric	Unit of measure	Baseline	2021/22 Progress update	Target	Target year	Status tracking	Commentary
City Operations	Total scheme water use by City-owned facilities	Kilolitres per year	67,356.00	69,418.00	67,356.00	Maintain at or below baseline	Not on track	It is likely that the increase in water consumption in 2021/22 (10,000 kL) was at least in part due to the return to community events following the COVID lockdowns of the previous year.
	Groundwater use (average across all irrigated areas)	Kilolitres per hectare per year	7,357.00	7,158.96	6,989.15	2024	On track	The Parks team has reduced water consumption by 825 kL/ha/year. Actions implemented to improve water use - turf renovation program to improve turf vigour, new inground irrigation renewal program, and irrigation program Signal being used more effectively.
Community	Community scheme water use	Kilolitres per person per year	96.86	101.01	90.00	2024	Not on track	Community scheme water use fluctuates greatly from year to year. After exceeding this target in 2020/21, this year water use has increased possibly due to the record-breaking hot spells in summer. We know that Vincent residents continue to rely heavily on scheme water for irrigation/cooling in summer.

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WATER	Metric	Unit of measure	Baseline	2021/22 Progress update	Target	Target year	Status tracking	Commentary
	Domestic groundwater use	Kilolitres per year	715,000	715,000	594,279.00	2024	Not on track	Domestic ground water is estimated because garden bores are not licensed or metered. Estimates are based on household water use surveys and a subset of metered samples. The baseline set in the SES was based on Water Corporation advice received in 2018/19. The estimated use for 2020/21 remains the same as for the baseline year.

URBAN GREENING AND BIODIVERSITY	Metric	Unit of measure	Baseline	2021/22 Progress update	Target	Target year	Status tracking	Commentary
City Operations	Percentage		20%	19%	23.3%	2023	On track	Data source change - Previously, tree canopy data was calculated using inhouse GIS. However the DPLH has launched a new Tree Canopy Dashboard which we will use going forward. Baseline percentage has been updated in line with the Dashboard.
	Number of street trees	Trees	13,000.00	15,022	13,500 14,900	2023	On track	
	Length of greenways established within the City	Kilometres	25.00	26.59	26.50	2023	On track	Vincent public tree canopy is on par with inner city LGAs. Considering the tree plantings and ecozoning completed, we expect public tree canopy to increase. It may take some time for the Dashboard to catch up. As the target was based on the previous data source (in the Greening Plan), it is not likely we will meet this target.
	Area of eco-zoning completed	Square metres	49,549	72,227	69,549	2023	Target met	
Community	Tree canopy cover on private land	Percentage	10%	9.0%	7.5%	2023	N/A	Baseline data adjusted according to Tree Canopy Dashboard, however target remains as from the Greening Plan. The Sustainability and Transport Advisory Group agreed to retain the outdated target until the new Sustainable Environment Strategy is adopted (2025). Vincent's private tree canopy is smaller compared with neighbouring LGAs, that are between 12 and 17%.

* Via the Department of Planning, Lands and Heritage Urban Forest Dashboard