

Environmental Sustainability Performance Report 1 July 2021 – 30 June 2022

Improving the environmental outcomes of Council's operations

GREENHOUSE GAS EMISSIONS
21,765
tCO₂e

TARGETING
ZERO EMISSIONS
FROM COUNCIL'S
OPERATIONS BY 2030

1,200

ANNUAL CHANGE



1,336
tCO₂e

7%
Increase

Emissions from transport fuel nearly doubled compared to last year due to extensive vehicle and equipment fuel use in flood recovery. Emissions from electricity use in streetlights halved compared to last year due to the replacement of 6,400 streetlights with LED lightbulbs. Council purchased renewable energy credits equivalent to approximately 1,500 tonnes of greenhouse gas emissions in order to meet its 25% reduction in emissions from electricity goal.

COUNCIL'S EMISSIONS

ARE EQUIVALENT TO **1,200 AVERAGE HOUSEHOLDS'** ANNUAL CARBON FOOTPRINT

GREENHOUSE GAS EMISSIONS SOURCES

PETROL

796 tCO₂e



DIESEL

5,284 tCO₂e



ANNUAL CHANGE



48%
Increase

ANNUAL CHANGE



200%
Increase

WASTEWATER TREATMENT PLANT FUGITIVE EMISSIONS



ELECTRICITY IN STREETLIGHTS

1,050 tCO₂e



ELECTRICITY IN FACILITIES

13,067 tCO₂e



1,568 tCO₂e

ANNUAL CHANGE



54%
Decrease

ANNUAL CHANGE



10%
Decrease

ANNUAL CHANGE



5%
Decrease

ELECTRICITY

Several of Council's solar installations underwent repairs, improving this year's rate of solar generation, exports to the grid, and proportion of self-generation.

GRID ELECTRICITY CONSUMED

20,041,987 kWh



SOLAR GENERATION

952,672 kWh



ANNUAL CHANGE



7%
Decrease

ANNUAL CHANGE



36%
Increase

SURPLUS SOLAR TO THE GRID FROM COUNCIL SITES

237,527 kWh



PROPORTION OF SELF-GENERATED RENEWABLE ENERGY



ANNUAL CHANGE



80%
Increase


ANNUAL CHANGE



44%
Increase

REDUCTION IN ELECTRICITY-RELATED CARBON EMISSIONS

(since 2016/2017)

2021/2022  **25%**
Decrease

2020/2021  **17%**
Decrease

2019/2020  **9%**
Decrease

2018/2019  **6%**
Decrease

TARGETING 25% LESS EMISSIONS FROM ELECTRICITY THAN 2016/2017 BY 2022 AND 50% BY 2025

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OFFICE WASTE

MURWILLUMBAH ADMIN OFFICE

An office audit was not completed again this year due to large numbers of staff working from home in response to COVID-19.



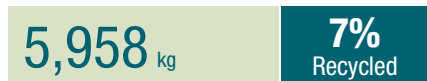
2018/2019



2016/2017



2014/2015



PRINTED PAPER

TOTAL PHOTOCOPIER PRINTS



2021/2022



2020/2021



2019/2020



2018/2019



WATER USE

PUBLIC PARKS



60,604_{ML}

ANNUAL CHANGE

24% Decrease

COUNCIL FACILITIES

89,635_{ML}

ANNUAL CHANGE

2% Decrease

Wetter conditions reduced watering demand.

FLEET VEHICLES KILOMETRES TRAVELLED

Council leases 40 hybrid vehicles as part of its passenger fleet of 101 vehicles. Trucks and diesel vehicles have travelled more kilometres compared to last year due to extensive vehicle use in flood recovery.

PASSENGER/
COMMERCIAL
DIESEL



3,411,286_{KM}

ANNUAL CHANGE

13% Increase

PASSENGER/
COMMERCIAL
ULP



2,107,473_{KM}

ANNUAL CHANGE

19% Decrease

TRUCKS
HEAVY/MEDIUM



1,359,871_{KM}

ANNUAL CHANGE

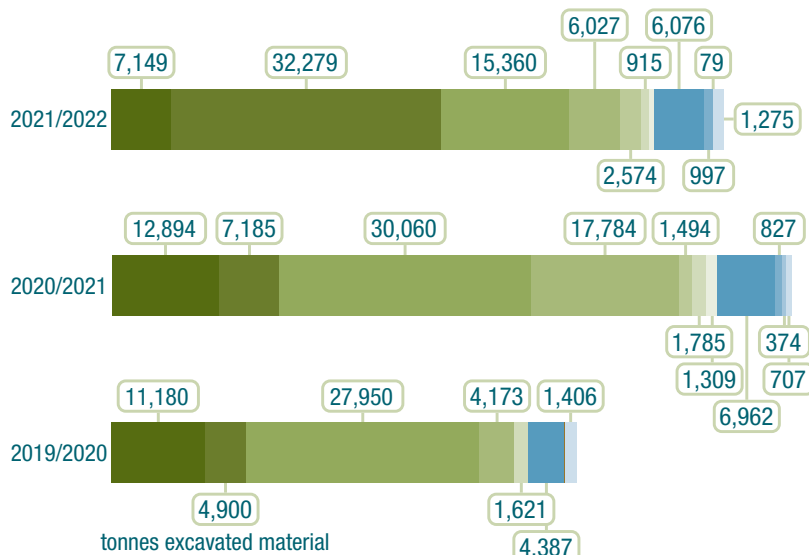
15% Increase

CONSTRUCTION AND ROAD MATERIAL WASTE

Council collected more virgin material in the flood recovery, and disposed more of that material to private sites compared to last year. Less roads and recycled asphalt materials were collected due to the shift in priorities to flood recovery. An additional 45,190m³ of flood recovery material is currently being stored for reuse.



90% of material excavated from infrastructure worksites was repurposed, particularly roads material which is re-used in the rebuilding of sealed roads and regrading of gravel roads. Every tonne reused avoids a tonne of virgin material being excavated.



	Total collected	Total repurposed	% repurposed
2021/2022	71,738	64,586	90%
2020/2021	81,381	72,511	89%
2019/2020	55,627	49,824	90%

Note: Data reported in the 2020/2021 report has been updated with more accurate figures.