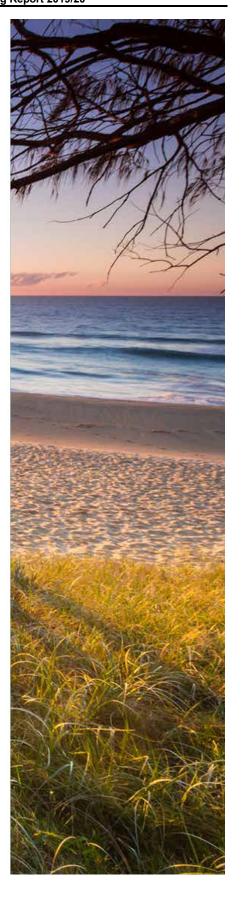


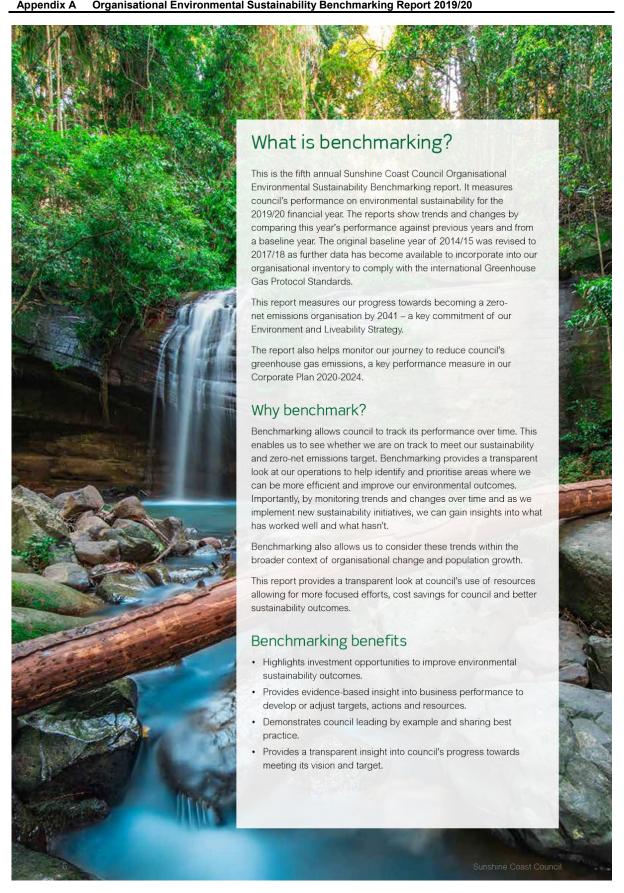






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Approach to benchmarking

We use indicators to identify trends and track performance of broader environmental sustainability areas.

These indicators are selected based on the availability of data and how well the indicator represents broader trends and changes.

The benchmarking covers the following key areas:

- Greenhouse gas (carbon) emissions
- Waste
- Energy (electricity and renewable energy)
- Energy (fuel)
- Transport
- Water
- Environmental sustainability programs
- Environmental sustainability embedded into systems and processes.

Indicators

We have two types of indicators:

- 1 Primary indicators provide the most accurate indication of trends and changes in the relevant area.
- 2 Other indicators provide additional context to supplement the primary indicator, giving a comprehensive picture of trends and changes.

Every year, the indicators are reviewed. We consider the availability of new datasets, improvements in council's measurement and monitoring of activities, changes in policy, legislation and standards, and emergence of additional priorities. Periodically this results in indicators being revised and/or added.

As our region grows and council employee numbers fluctuate, the indicators are standardised against

the number of full-time equivalent (FTE) staff working for council, or (where appropriate) the regional population. This standardisation of indicators ensures we can distinguish between trends that relate only to having a larger population or organisation, versus trends that relate to the continued improvement of our processes, systems and actions.

The indicators that are standardised against the regional population (i.e. per resident) relate to greenhouse gas emissions (GHG). We own and operate two landfill sites, which are the most significant contributor to our carbon footprint and largely reflect community waste. This means standardising greenhouse gas emissions against the regional population gives a more accurate understanding of changes over time¹.

Table 1: FTE and population figures used to standardise the data

	2015/16	2016/17	2017/18	2018/19	2019/20
Population	289,389	303,400	319,500	328,000	336,500
FTE staff ²	1553	1661	1654	1668	1601

Note that some local governments own and operate landfills, water and sewerage services for the community which influences their greenhouse gas emissions. Our council owns and operates two active landfill sites but does not own or operate water and sewage services.

One FTE is equal to one full-time workload that might be conducted by a single full-time employee or by several part-time employees. This figure represents FTE hours paid for all established, nonestablished positions and agency staff for the financial year (excludes Contincent Workers).

Spotlight: Sustainable reset – adapting to disruption within council

From mid-March to June 2020 our libraries, community centres, aquatic centres and holiday parks had to close their doors due to the impacts of coronavirus (COVID-19). Following this, where possible council employees worked from home. These actions were implemented to help keep our staff and community safe. As a result, we managed to reduce the spread of COVID-19 and have a positive impact on our environment and community wellbeing.

Some examples where changes to how we worked also had a positive sustainability benefit include:

- Move to online meetings with Microsoft Teams, demonstrating its effectiveness and reducing the need for travel to attend meetings.
- Council meetings moved to an online format with live broadcasting providing greater access to our community.
- Councillors adapted to using laptops, reducing the need for printed agendas.
- Sunshine Coast Stadium was set up as a homelessness support hub, providing hot showers and meals to those in need.
- Venue 114 became a popup PPE factory to help make medical grade face shields for our front-line workers during the pandemic.

- Council's #COVIDKindness campaign was initiated to bring the community together.
- Local spend was strongly supported with 73% of total purchasing spent with local businesses to the value of \$95.04 million.

These changes resulted in the following sustainability outcomes for council. The following figures outline the reductions achieved between March to June 2020 compared to the same period in 2019:

- 32% reduction in electricity usage
- 15% reduction in water usage
- 2,775,646 kilometres of staff travel avoided by working from home
- 16% reduction in kilometres travelled by council fleet vehicles
- 55% reduction in the amount of paper printed



Organisational Environmental Sustainability Benchmarking Report 2019/20

Spotlight:

Life on the Sunshine Coast during a global pandemic

During the COVID-19 lockdown we found ourselves living through an unprecedented time of uncertainty and disruption. As a result, we have seen some extraordinary behaviours emerge, including people getting back to their roots and slowing down to enjoy the simpler things in life. Here are a few examples of sustainable behaviours we've seen during this time.

Buying local

DIY home projects

New productive pets

Growing their own

Embracing outdoors at home

Baking revival

Getting stitched

Exercise beyond the gym

Getting musical

Greenhouse gas (carbon) emissions

Council measures its greenhouse gas emissions across waste, electricity, street lights, fuel, liquid petroleum gas and other emissions sources in compliance with the international Greenhouse Gas Protocol and the National Greenhouse and Energy Reporting Act 2007 (the NGER Act).

Council's total greenhouse gas emissions for 2019/20 is 206,383 tCO,e. Greenhouse emissions per resident has decreased slightly by 0.01 tCO,e to 0.61 per resident tCO2e for this financial year. Although savings were realised across the organisation there was a rise in community waste which is reflected by the 1.72% increase (3499 tCO,e) compared to the previous year. Waste represents 67.6% of council's total greenhouse gas emissions.

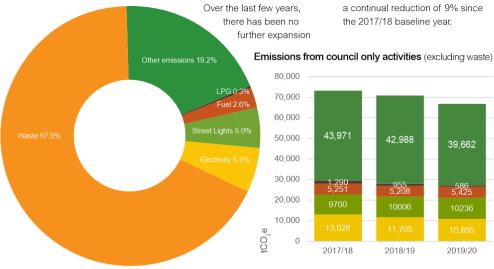
at council's landfill sites has increased compared to 2018/19 but

The methane captured and flared has decreased to the baseline year. Over the last few years,



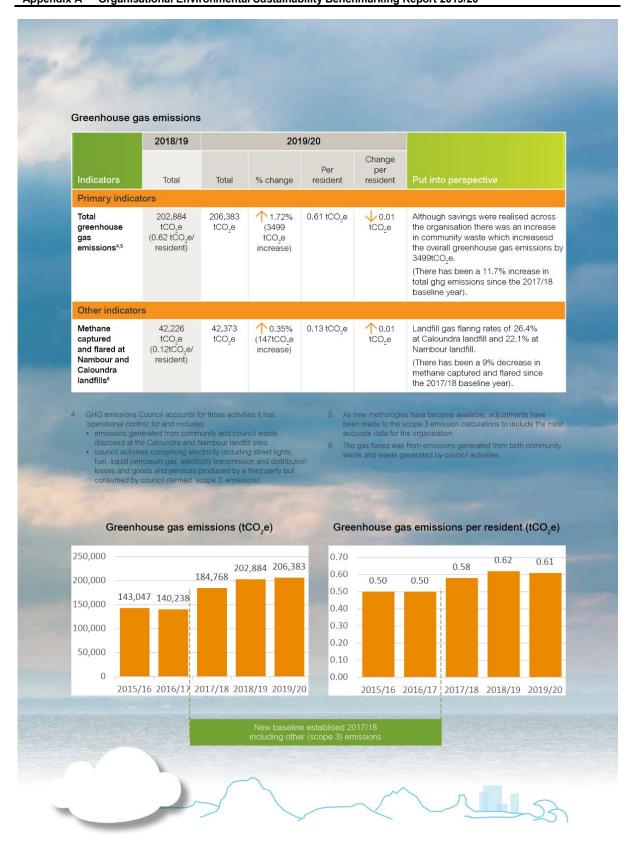
of the gas capture infrastructure network. During 2019/20 there were dry weather conditions which reduces landfill gas generation. Works are currently underway to expand the gas capture network at the Caloundra landfill.

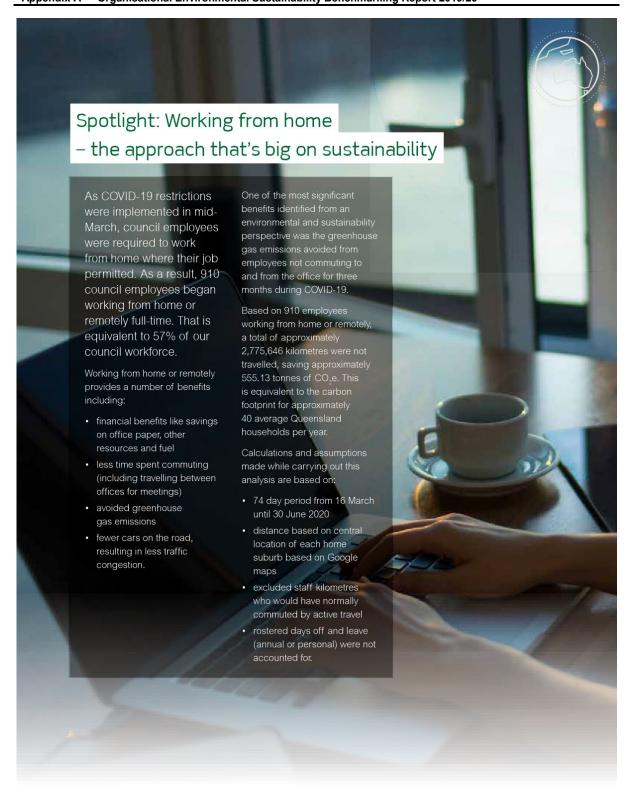
If we exclude emissions from waste a different picture emerges. Reporting figures show an overall reduction of 6% (compared to 2018/19) in greenhouse emissions for our council activities. This shows

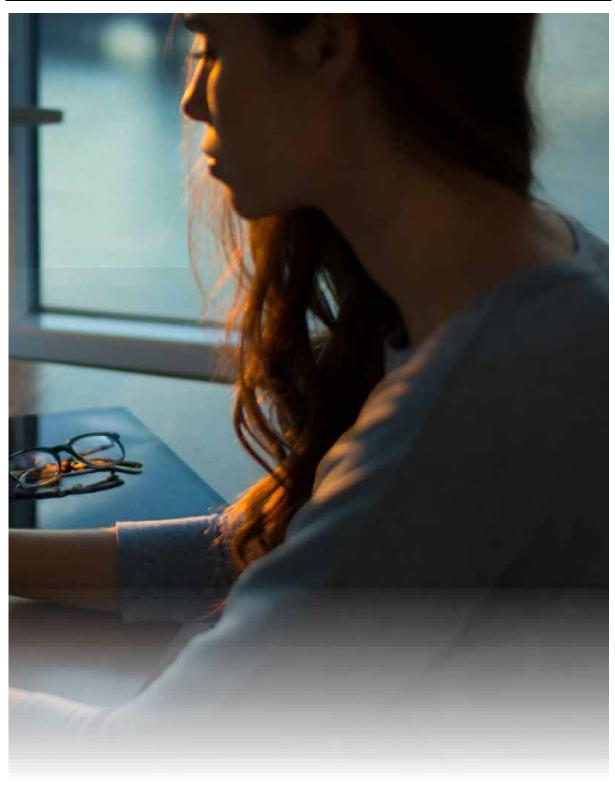


Waste	67.6%	139,580 tCO ₂ e from waste in landfills
Electricity	5.3%	10,895 tCO ₂ e from our large and small sites
Street lights ³	5.0%	10,236 tCO ₂ e from our street lights
Fuel	2.6%	5425 tCO ₂ e from our fleet vehicles and bulk diesel supply
Liquid petroleum gas (LPG)	0.3%	586 tCO ₂ e that is used at council's sites
Other emissions	19.2%	$39,662~\mathrm{tCO_2}$ e including goods and services produced by a third party

Street lighting has been separated out from the 'Electricity' area as it is a significant source of greenhouse gas emissions and it is calculated as a









Waste

Waste generated by council activities is calculated via

- Council's waste contractor collections for council managed sites (based on bin size, service frequency and regional audit data).
- 2 Self-haul data is waste from council activities that is measured at the weighbridge (at the transfer stations).

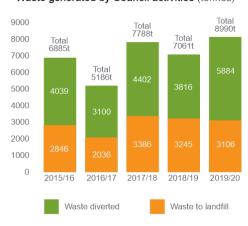
Green waste, construction and demolition waste that is processed and recycled at council depots is managed separately and not included in these data sources.

The total figure for 2019/20 from waste generated by council's activities was 8990 tonnes. Of this total, 65% (5884t) was recycled and 35% (3106t) landfilled. This is a decrease of 4% of waste to landfill compared to 2018/19.

The increase in recycling occurred mainly from the self-haul component that came from the construction and demolition (C&D) and commercial and industrial (C&I) green waste sectors.

Council is increasingly using more recycled materials to deliver construction projects. Some materials being recycled include road profiling, crushed concrete, mulch and clean fill.

Waste generated by Council activities (tonnes)



	2018/19		201	9/20		
Indicators	Total	Total	% change	Per FTE	Change per FTE	Put into perspective
Primary indi	cators					
Waste generated by council activities	erated (4t/FTE) (1929t increase)		↑ 2t	The total waste of 8990 tonnes consists of 65% (5884t) recycled and 35% (3106t) landfilled. (This is a 15% increase in waste generation since the baseline year 2017/18).		
Other indica	tors					
Waste generated by council activities diverted from landfill	3816t (2t/FTE)	5885t	↑ 54% (2069t increase)	4t	↑ 2t	In comparison to 2018/19 there has been an increase of 54% (2069t) in waste diverted (recycled). This is mainly due to more concrete and green waste from council activities going to the resource recovery centres. (There has been a 34% increase in waste diverted from landfill since the 2017/18 baseline).



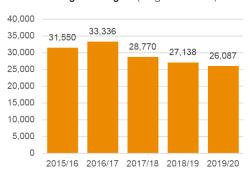
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Energy (electricity)

The total electricity consumption includes electricity used at council's large and small sites and street lights.

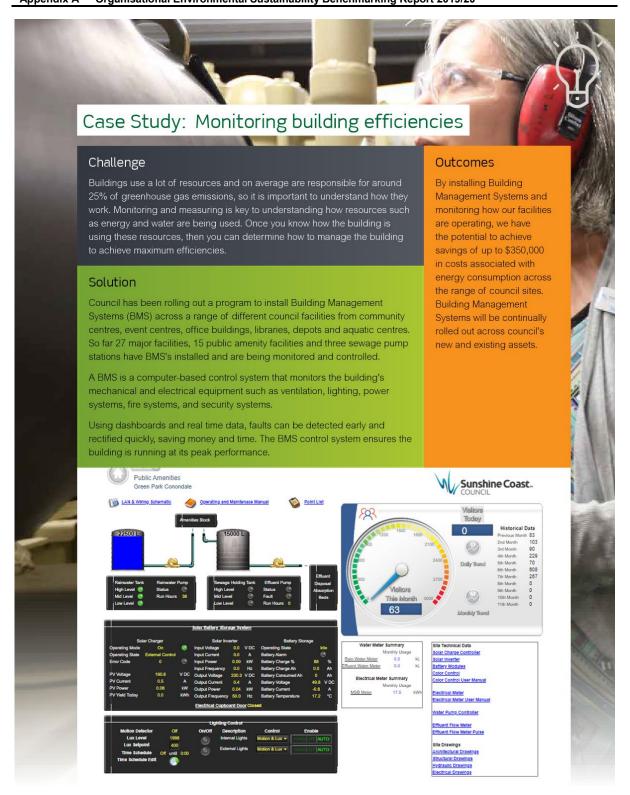
This year the total electricity consumption decreased by 4% which was expected due to facility closures from March to June during the pandemic. Street lighting consumption has remained reasonably constant with a slight 1% increase.

Total electricity consumption – including street lights (megawatt hours)



	2018/19		201	9/20		
Indicators	Total	Total	% change	Per FTE	Change per FTE	Put into perspective
Primary indi	cators					
Total electricity consumption (including street lighting)	27,138MWh (16,270kWh/ FTE)	26,087 MWh	(1051 MWh reduction)	16,294 kWh	↓ 24kWh	Ongoing efficiencies (e.g., Buidling Management Systems) and the impact of the COVID shutdown have contributed to the decrease. (Since the 2017/18 baseline year there has been a 9% decrease in electricity consumption).
Other indicat	tors					
Electricity consumption (excluding street lights)	14,631MWh (8772kWh/ FTE)	13,450 MWh	\$8% (1181MWh reduction)	8401 kWh	371kWh	The overall decrease within council's buildings was largely influenced by the closure of many of council facilities and staff working from home between March to June 2020.
Street lighting consumption	12,507MWh (7498kWh/ FTE)	12,637 MWh	1% (130MWh increase)	7893 kWh	↑ 395kWh	Street lighting inventory has increased on the prior year, accounting for the increase in consumption. (This is a 3% increase since the 2017/18 baseline year).
Total electricity costs (including all costs such as network charges and including street lights)	\$6,939m	\$6,763m	3% (\$176,000 decrease)	N/A	N/A	Reductions in electricity costs reflect the reduced consumption in Council facilities/buildings. (This is a 14% decrease in total costs since the 2017/18 baseline year).

Appendix A



Renewable energy

Renewable energy includes solar photovoltaics (PVs) on council buildings and facilities and energy generated by our Sunshine Coast Solar Farm.

During the 2019/20 period, energy generated at the Sunshine Coast Solar Farm totalled 28,729 MWh, a 3% reduction when compared to 2018/19. This reduced output was due to a wide-scale component issue from the equipment manufacturer.

As part of our approach to being Australia's most sustainable region, we also actively work with our community and other local governments to share our knowledge in renewable energy. There were a total of 22 tours carried out at the Sunshine Coast Solar Farm for the 2019/20 period and another 7 tours that were planned but were postponed due to COVID-19.



In 2019/20 there was a 17kW increase in the installed PV solar capacity across council. The installation occurred at the Mooloolaba Holiday Park as part of the site upgrade, bringing the total installed solar PV capacity to 15,341 kW across both the Sunshine Coast Solar Farm and council's buildings and facilities.

	2018/19		2019	/20			
Indicators	Total	Total	% change	Per FTE	Change per FTE	Put into perspective	
Primary indicator	rs						
Total installed solar PV capacity Sunshine Coast Solar Farm (SCSF) and solar PV on council buildings and facilities	15,324 kW (115kW)	15,341	17 kW increase)	N/A	N/A	Council continues to identify opportunities for renewable energy.	
Other indicators							
Capacity of solar (PV) panel systems on council buildings/ facilities. ⁷	324 kW (0.19 kW/ FTE)	341	↑5% (17kW increase)	0.21 kW	↑0.02 kW	This increase is due to 17kW system installed at Mooloolaba Holiday Park as part of the upgrade.	
Energy generated by Sunshine Coast Solar Farm (SCSF)	29,528 MWh	28,729	3% (799MWh reduction)	N/A	N/A	The reduction can be contributed to weather variations and a number of inverter outages due to internal component failures. This was identified as a wide scale problem across many solar farms and took time for the equipment manufacturer to replace. The solar farm offset 110% of council's electricity operational requirements for this financial year.	
Electricity cost savings for SCSF against 'business as usual' after all costs	\$429,400	\$68,000	₩ 84%	N/A	N/A	This figure is lower than the prior year is largely due to suppressed wholesale market pricing observed for the last six months of this financial year.	

A comprehensive audit is required to perform a detailed assessment of the historial solar systems installed and opportunities for new installations/ upgrades.

Energy (fuel)

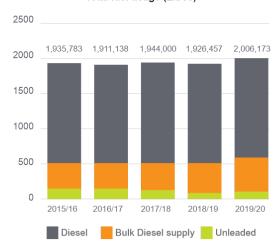
Fuel includes diesel and unleaded petrol used in council fleet vehicles and bulk diesel used by heavy plant and equipment such as graders, rollers, tractors and mowers.

While there has been a 4% increase in fuel use there has been a 3% reduction in fuel costs due to the drop in fuel prices during COVID-19 from an average of \$1.40/litre to as low as \$0.93/litre. The increase in fuel usage, particularly bulk diesel, is attributed to increased production at the quarry.

Council continuously reviews its fleet for fuel efficiencies and there is potential to purchase more hybrid and electric vehicles when replacing fleet vehicles. This has been evident in 2019/20 with an increase of five hybrid vehicles raising the total to seven.



Total fuel usage (Litres)



	2018/19		2019	/20					
Indicators	Total	Total	% change	Per FTE	Change per FTE	Put into perspective			
Primary indicators									
Litres of fuel used	1,926,457 L (1155 L/ FTE)	2,006,173 L	14% (79,716 L increase)	1253 L	↑ 98L	Diesel vehicles make up 89% of council's fleet. Savings associated with fleet diesel were achieved during April to June when a proporiton of vehicles were not in use due to staff working from home. (Fuel consumption has increased by 3%			
04						since the 2017/18 baseline year.)			
Other indica	tors								
Fuel costs	\$2,556,033 (\$1,532/ FTE)	\$2,474,839	↓ 3% (\$81,194 decrease)	N/A	N/A	There has been a 3% decrease since the previous year due to very low fuel prices during COVID-19.9 (This is a 9% decrease since the 2017/18 baseline year).			
Alternative- fuel and advanced technology fleet vehicles	2	7	5 vehicles	N/A	N/A	There has been an increase of 5 hybrid vehicles since the previous financial year. This represents 1.25% of the fleet vehicles.			

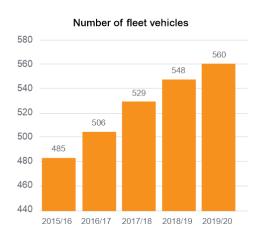


Transport

Council's fleet includes 560 vehicles and 1028 plant and equipment (e.g. trucks, small/major plant equipment and marine vessels) bringing the total to 1588. As part of our benchmarking indicator's we only measure the change in the number of fleet vehicles (plant and equipment vehicles excluded).

All council cars are fitted with GPS to reduce idling and minimise wear and tear on tyres. These initiatives encourage smarter driving, reducing the need for early replacement of tyres and resulting in lowering greenhouse gas emissions.

In early 2020 a new staff travel program (MovUs) was introduced to assist council employees to change the way they travel. This tool helps employees plan their travel to and from work, find carpool and bike buddies and track travel with the aim of enabling sustainable travel solutions.



	2018/19		2019	/20		
Indicators	Total	Total	% change	Per FTE	Change per FTE	Put into perspective
Primary indicate	irs					
Fleet vehicles ⁸	548	560	12% (increase of 12 vehicles)	N/A	N/A	Overall there has been a 6% increase in the number of fleet vehicles since the baseline year 2017/18.
Other indicators						
Fleet vehicles that are four cylinder	391	400	12% (increase of 9 vehicles)	N/A	N/A	This represents 71% of the total fleet being 4-cylinder. (This is an increase of 7% since the 2017/18 baseline year).
Total distance saved by staff using alternative transport (car pool, cycling, walking or public transport) ⁹	236,023 km (142 km/ FTE)	179,313 km	24% (56,710 km reduction)	112 km	↓ 30 km	This 24% reduction in green travel reflects the move to working from home that occurred from March to June 2020.

This figure includes passenger and light commercial vehicles as well as seven hybrid (electric/fuel) passenger vehicles.
 This was the result of Travel Smart's 'Green Travel' program for staff. Alternative transport, outside of what has been registered through this program

This was the result of Travel Smart's 'Green Travel' program for staff. Alternative transport, outside of what has been registered through this program has not been included.



Water

Water consumed refers to the potable water that council is billed for by the utility company (Unitywater). It doesn't include the use of water from other sources such as rainwater tanks.

This year we have seen a 6% increase in water usage. This is partly due to the seven-month period from July 2019 to January 2020 that was extremely dry (drought conditions) with higher water usage to maintain the sports fields, as well as servicing our holiday parks with above normal occupancy levels.

While there has been an increase in usage there has been a decrease in cost reflecting adjustment in fixed access charges.





	2018/19		2019/2	20		
Indicators	Total	Total	% change	Per FTE	Change per FTE	Put into perspective
Primary indicato	rs					
Water consumed by council	618,650kL (371kL/ FTE)	L 656,986 kL		↑ 39 kL	This increase relates to the drought conditions from July 2019 to January 2020 with higher water usage to maintain sports fields and servicing the holiday parks. (Council's water consumption has increased by 2% since the 2017/18 baseline year).	
Other indicators						
Council's total water cost (including all costs such as water access and sewerage charges)	\$4,660,574 (\$2,794/ FTE)	\$4,491,496	4% (\$169,078 decrease)	N/A	N/A	There has been an overall decrease of \$169,078 in water costs compared to 2018/19 and a decrease in 5% since the baseline year.



Case Study: Stormwater to water street trees and create cool refuges

Challenge

Street trees bring character and beauty to our streets. Shady trees also create an environment that provides an important cooling effect on hot days. For these trees to grow they require a high level of maintenance with a regular watering regime. This involves a lot of time and effort and uses good quality reticulated water to ensure these plants survive and thrive.

Solution

Golden Beach is the first Sunshine Coast suburb to trial stormwater being redirected to water the street trees. This site was selected as it has 102 recommended planting locations representing 10.4km of verge.

In this trial there are several methods being tested including various forms of garden beds and underground infrastructure.

Outcomes

This program provides many benefits:

- removes pollution and litter from stormwater before it reaches our waterways
- allows better tree growth, which cools the region with shade and evapotranspiration
- · reduces the need for manual watering
- · improves amenity and liveability
- reduces the amount of water needed to support a healthy urban forest.

The trial will be monitored and its success will be measured by the health and growth of the trees, the stormwater levels and reduction of pollutants in our waterways.



Our environmental sustainability programs

Environmental sustainability programs encourage council employees and the community to make informed choices that promote sustainable living

Living Smart is council's sustainability behaviour change program that encourages our community and staff to make simple lifestyle changes. The program shares stories and information that is relevant to our community's needs and interests. It prioritises local content, encourages sharing, provides resources and enables community connection.

Some examples of Living Smart activities and campaigns during 2019/20 included:

- · Love your Leftovers campaign provided resources to encourage people at home to save money and waste
- #BYOSunshineCoast Challenge to encourage reusable products and reduce single-use plastics
- #homehacks campaign encouraged people to share their knowledge, home projects and ideas
- Crafting a Circular Economy a series of online conversations hosted at local businesses to showcase how they are implementing circular economy behaviours and encouraging other businesses to consider how to join the movement.



Key programs delivered during 2019/20 encouraging council employees to make sustainable choices included:

- · Plastic Free July Challenge (2019) - involved 17 teams of four people who individually carried out more than 400 actions throughout the month
- National Recycling Week engaged 348 employees who completed the 'War on Waste: It's as easy as Reduce, Reuse, Recycle' quiz. Employees also shared 193 ideas about reducing waste
- Ride to Work Day 40 employees participated in the event, with 74 taking part in the electric bikes 'come and try sessions'.

	2018/19		2019/20		
Indicators	Total	Total	% change	Per FTE	Put into perspective
Primary indicators					
Staff participating in three priority work place sustainability programs and events (Ride to Work, Plastic Free July, National Recycling Week)	N/A	530 participants	N/A	N/A	This is a new indicator to provide a standardised measurement for monitoring internal participation in these three key programs/events. There are a number of other events/opportunities that are run throughout the year promoting internal sustainability engagement.
Other indicators					
Number of engaged employees through council's online sustainability platform	N/A	208 members	N/A	N/A	This is a new indicator to measure our online sustainability engagement with employees. The 'Sustainability Snippets' Yammer page is an online platform that encourages collaboration and sharing of knowledge amongst employees.



Case Study: Marine Debris Program

In addition to the Beach Clean Up Program which is primarily community driven, supporting and assisting volunteer groups and individuals (our Clean Ocean Champions), council runs three major regional events and one month long project - Clean Up for the Hatchlings, Schools Beach Clean-Up, Clean Up Australia Day and Plastic Free July.

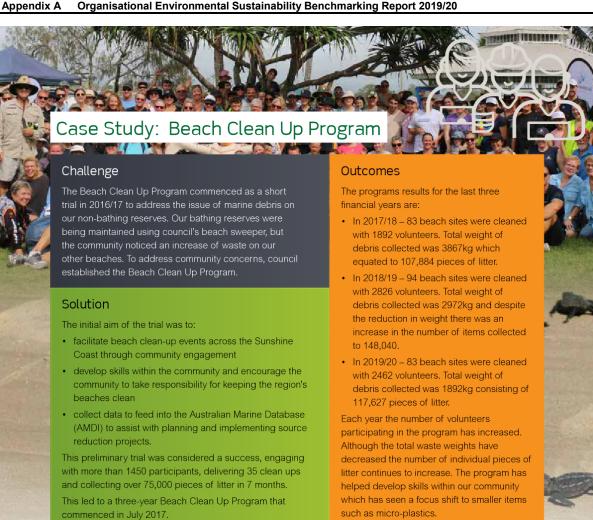
There are also two Australian Marine Database (AMDI)

workshops held each year to continue developing skills within the community to encourage source reduction projects.

There have been several source reduction projects undertaken throughout the last three years as well. Ten Little Pieces, one of our Clean Ocean Champions, commenced an initiative with support from the program which saw a Cigarette Butt Voting Ballot Bin installed near

Alexandra Headland - a hotspot for inappropriate cigarette butt disposal. The bin and associated signage raised awareness of the problem in the area and assisted with some behaviour change in some of the visitors to the area.

A second source reduction project was commenced with the support of advertising students at the University of the Sunshine Coast. As part of their mid-year assessment, teams of students



were asked to design a concept that would assist with the behaviour change around the incorrect disposal of dog poo bags on the beach at North Shore beach in Twin Waters. The winning team developed a signage campaign 'Leave nothing but pawprints' which is currently being incorporated into the Waste teams 'Clean Sunshine Coast, it's in our hands' campaign and should be visible on bins in coastal locations soon.

They also designed a clip to attach to the dog's lead to encourage dog owners to dispose of poo in the nearest bin - this is currently being developed through council's Innovation Portal.

The program also provided support to the Generation Innovation challenge last year, assisting Olivia and Zac with the launch of their SeaFrame movement. The students had to find funding for their idea

to create a movement to instil behaviour change and celebrate those people that were cleaning their local beaches regularly. Despite not winning the challenge, Olivia and Zac are working with an app designer - so watch this space!

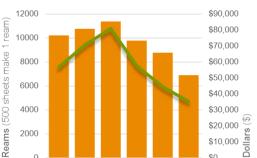


Council is continually looking for opportunities to embed sustainability into its systems and processes.

Council has an important role to support improved sustainability outcomes throughout the local economy with our purchasing power. This year we have introduced a new indicator relating to the local spend with businesses on the Sunshine Coast. In 2019/20, council spent \$268.46m with local businesses, which represents 70% of total purchasing expenditure.

Council goes paper-lite

Over the last few years council has implemented programs (e.g. Follow Me Print and a PIN system) to reduce the amount of unnecessary printing. This is having a big impact on the amount of paper purchased and reducing stationery costs. Since our consumption peaked in 2016/17 we have reduced our paper purchases by 39% with cost savings of 56% (\$45,657). As we become more digital the need for printing continually declines. COVID-19 demonstrated how further significant reductions can be realised by a more permanent shift to a digital environment.



Amount of paper purchased and its cost

)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	\$0	
	Pape	r purc	hased	(in rea	ams)	C	ost	

	2018/19	201	9/20	
Indicators	Total	Total	% change	Put into perspective
New contracts, recommended for award by Procurements Contract Committee (exceeding the value of \$250,000) that were evaluated with regard to environmental criteria. ¹⁰	84 of 90 contracts (93%)	61 of 67 contracts (91%)	↓ 2%	In 2019/20 91% of contracts were evaluated against environmental criteria. Due to the nature of some contracts they don't all require evaluation against these type of criteria.
Council's procurement that went to local spend with Sunshine Coast businesses	N/A	\$268.46m	N/A	This is a new indicator that is being included to track council's contribution to local procurement. This represents 70.14% of council's total purchasing spend.
New permanent employees who have participated in some kind of induction checklist or council's corporate orientation program where they were informed of and encouraged to embrace Council's vision of being Australia's most sustainable region. ¹¹	290	133	↓ 54%	There was an employment freeze during the 2019/20 financial year resulting in a decrease of 54% of new permanent employees completing council's corporate induction program compared to 2018/19.

^{10.} In many cases environmental criteria are applied to the request for quote (RFQ) evaluation process for contracts under \$250,000. However, these are not all captured in a central location, so have

been omitted

Total number of new employees includes permanent, full and parttime, casual, temporary full and part-time - excluding contractors.

