

ENVIRONMENT, PLANNING AND SUSTAINABLE DEVELOPMENT DIRECTORATE

ABOUT THE DIRECTORATE

The Environment, Planning and Sustainable Development Directorate (EPSDD) aims to lead the nation in achieving sustainable outcomes; to be a 'liveable and sustainable city'. The Directorate is responsible for developing and implementing a wide range of policies and programs across city planning and development, climate change and the environment. The Environment Division is responsible for heritage, conservation research, nature conservation policy, catchment management and water policy and environment protection policy, and includes the ACT Parks and Conservation Service. The Climate Change and Sustainability Division is responsible for delivering 100% renewable electricity by 2020, carbon neutrality by 2050 at the latest, and climate adaptation actions. The ACTSmart program, Energy Efficiency Improvement Scheme and Carbon Neutral Government programs deliver on-the-ground energy savings. The Land Supply and Policy Division is responsible for land development projects including affordable housing, land economics, land strategy and policy and building policy. The Planning Delivery Division administers the Territory Plan in terms of planning approval, leasing and deed management and environmental impact statements. This Division includes the Office of the Surveyor-General and Land Information. The Planning Policy Division is responsible for the Territory Plan, strategic planning, civil infrastructure planning and major projects. The Urban Renewal Division includes the Asbestos Response Taskforce and the Public Housing Renewal Taskforce as well as strategic projects and infrastructure, and urban projects. The division is responsible for driving the ACT Government's urban renewal agenda by supporting major projects that aim to improve the liveability of our city and through the delivery of the Public Housing Renewal Program, Asset Recycling Initiative and Loose-fill Asbestos Insulation Eradication Scheme.

The City Renewal Authority is leading the transformation of the city renewal precinct, which spans Dickson, Northbourne Avenue, Haig Park, Civic and West Basin.

The Suburban Land Agency is responsible for delivering the ACT Government's suburban development program, including urban renewal in established town centres and suburbs. This comprises releases for residential, commercial, industrial, mixed use and community purposes.

KEY PERFORMANCE INDICATORS

EPSDD set itself a target of a 3% reduction in electricity consumption for 2017-18, estimated to reduce carbon emissions by 2.8% compared with emissions at 1 July 2017. This reduction was expected to largely come from the consolidation of staff in Dame Pattie Menzies House by the end of 2017, resulting in reduced overall heating load in winter which is the greatest driver of energy consumption. The target is subject to seasonal weather variations and climate change.

EPSDD manages a large number of assets through the Environment Division and Suburban Land Agency as well as having its staff in a large number of buildings throughout the ACT for either operational reasons or due to the cost of moving staff following administrative arrangement changes. It is expected that staff currently located at Dame Pattie Menzies House, 221 London Circuit and 470 Northbourne Avenue will move to a new location in Dickson in 2020.

EPSDD has identified five Key Performance Indicators for 2017-18:

- > Introduce energy efficient LED lighting to ACT Government-owned locations
- > Review out of hours office use particularly at Dame Pattie Menzies House
- > Improve metering to monitor energy use
- > Actively manage heating and cooling systems at all sites to minimise energy
- > Communicate energy efficiency programs to staff and contractors new to EPSDD, as well as to EPSDD's stakeholders and wider community.

COMMENTS ON THIS QUARTER

Emissions for the Suburban Land Agency and City Renewal Authority will be separated from EPSDD emissions from Q1 2018-19 onwards, reflecting that they will be separate entities for the purpose of carbon reporting. However, until then for whole of government completeness they are included in this Q4 2017-18 report.

The relocation of City Renewal Authority staff into Canberra Nara Centre from 1 July 2017 accounts for its unusual percentage increase in energy consumption compared with 2016-17. Similarly, changes to the proportion of floor area accounted for at 470 Northbourne Avenue demonstrates an artificial reduction in energy use at that site.

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COMMENTS

ACHIEVEMENTS

- > Most of the office buildings occupied by EPSDD demonstrated reductions in electricity and gas consumption during 2017-18. This was partly due to a milder winter, and partly due to operational changes such as more energy efficient staff practices and changes to equipment settings.
- > LED lighting has been installed at Dame Pattie Menzies House, Canberra Nara Centre and Stromlo Depot. Other sites will be assessed in 2018-19 and lighting upgraded as required.
- > Metering at all sites managed by EPSDD is now suitable for monitoring energy use.
- > Action was taken in Quarter 4 reducing staff access to Dame Pattie Menzies House outside of normal business hours.
- > EPSDD energy efficiency programs were mentioned at staff induction sessions, all staff emails and associated communications, and to the wider community by the ACTSmart team.
- > Heating, cooling and ventilation systems (HVAC) were reviewed at Athllon Depot, Tidbinbilla Visitors Centre, Tidbinbilla Depot and Namadgi Visitor Centre in mid-2017. HVAC systems at DPMH and Transact House/470 Northbourne were reviewed on an ongoing basis to improve efficiency and the comfort and welfare of employees.

UNCERTAINTIES/CONSTRAINTS

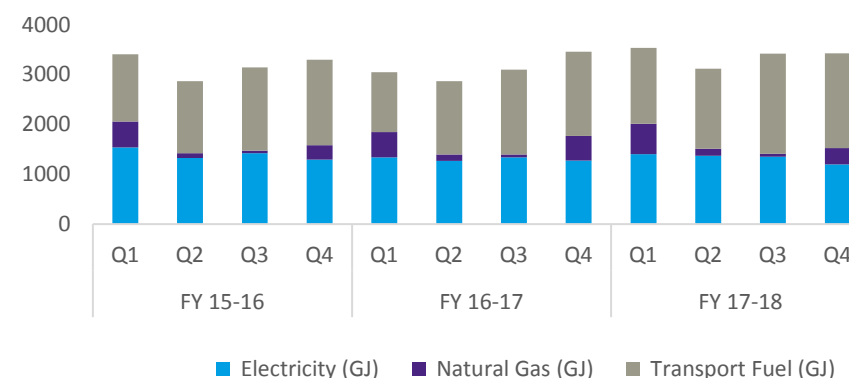
- > Transport fuel use in 2017-18 was higher than in 2016-17 due to increased operational demand flowing from vehicle reliant programs such as the Kangaroo Management Program, and implementation of the bushfire operations plan, which last year included significant fuel use during prescribed burning activities. This is the key focus of EPSDD for 2018-19.
- > The nature of the business of the Suburban Land Agency in preparing sites for sale means that the total energy used by its sites and vehicles is hard to forecast and beyond the control of EPSDD. For completeness of reporting, energy consumed by Suburban Land Agency activities is included in EPSDD quarterly reports.

FOCUS AREAS/OPPORTUNITIES

- > EPSDD will continue to promote and facilitate active travel opportunities to staff as an alternative to the use of fleet vehicles where possible.
- > Assessing staff access to other office sites outside of normal business hours may continue to reduce electricity and gas consumption at those sites.
- > New staff and contractors across EPSDD will continue to need to understand and adopt the Directorate's energy efficiency measures and programs.
- > LED lighting be installed at all remaining EPSDD sites.

DATA EXTRACTED 02/08/2018

3 YEAR ENERGY CONSUMPTION PROFILE



QUARTERLY ENERGY CONSUMPTION

	Q4 17-18	Difference*	tCO ₂ -e [^]
Electricity (GJ)	1,196.01	-6%	151.16
Gas (GJ)	332.70	-33%	17.14
Fuel (GJ)	1,899.91	12%	133.75
Total energy (GJ)	3,428.62	-1%	302.05

* Compared to the same period previous year

[^] Related to current reporting period

FINANCIAL YEAR TO DATE ENERGY CONSUMPTION

	YTD 17-18	Difference*	tCO ₂ -e [^]
Electricity (GJ)	5,327.50	2%	673.34
Gas (GJ)	1,138.17	-5%	58.65
Fuel (GJ)	7,052.26	16%	496.47
Total energy (GJ)	13,517.93	8%	1,228.45

* Compared to the same period previous year

[^] Related to current reporting period

FINANCIAL YEAR TO DATE ENERGY CONSUMPTION BY BUSINESS UNIT

Business Unit	Energy (GJ) [#]	Difference*	tCO ₂ -e [^]
Dame Pattie Menzies House & other sites	2,693.32	-5%	269.87
ACT Parks & Conservation Service	2,369.91	-2%	295.62
Asbestos Response Taskforce & Public Housing Renewal Taskforce	283.49	3%	35.83
Office of the Commissioner for Sustainability & the Environment	92.21	68%	8.58
City Renewal Authority	66.98	325%	5.75
Suburban Land Agency	1,032.45	-32%	130.37

[#] Electricity and Natural Gas only

* Compared to financial year to date 2016-17

[^] Related to current reporting period

Quarter 4 2017-18

(April to June 2018)

DG INDICATOR

A 3% electricity reduction target (compared with 2016) and ensuring the effective internal governance of energy performance reporting.

PERFORMANCE AGAINST TARGET

	Target ¹	Result
Electricity	-3%	5.8%
Gas	none	-18.5%
Total stationary energy	-3%	0.6%

¹ Target based on calendar year 2016 data and reflects Director-General performance indicator results.

DIRECTORATE KPI'S

- KPI'S**
- Introduce energy efficient LED lighting to all ACT Government-owned locations
- Improve metering to monitor energy use
- Review out of hours office use particularly at Dame Pattie Menzies House
- Communicate energy efficiency programs to staff and contractors new to EPSDD, as well as to EPSDD's stakeholders and wider community
- Actively manage heating and cooling systems at all sites to minimise energy

FINANCIAL YEAR TO DATE ENERGY CONSUMPTION AT FOCUS SITES

Location	Energy (GJ) [#]	Difference*	tCO ₂ -e [^]
Dame Pattie Menzies House	2346.54	-7%	229.18
470 Northbourne Avenue	730.47	-47%	92.32
Stromlo Depot	525.22	-4%	62.47
Tidbinbilla Depot	339.81	-4%	42.95
Namadgi Visitors Centre	337.61	-1%	42.67

[#] Electricity and Natural Gas only

* Compared to financial year to date 2016-17

[^] Related to current reporting period