



2020-21 AEMO Budget and Fees

Introduction and overview

AEMO is a not-for-profit company limited by guarantee, with government and industry members. AEMO receives no ongoing Government funding and recovers its operating and capital expenses through approximately 20 different fees levied to participants. Each fee is limited to recovering the costs of providing that particular service.

This document focuses on the 2020-21 budget and fees that will support the provision of services across all of AEMO's functions. Further, in July 2020, AEMO will publish its annual Corporate Plan that will detail the activities, priorities and key performance indicators for AEMO for the financial year.

AEMO's current fee structure expires on 30 June 2021. As required by the National Electricity and Gas Rules, AEMO will initiate a separate consultation in July 2020 to discuss with market participants and other stakeholders an optimum fee structure for July 2021 commencement. In addition to a specific consultation on the structure of participant fees, AEMO is proposing to explore with stakeholders, in the coming year potential changes to AEMO's business and financial model to make it less debt reliant and enable AEMO and industry participants to collaboratively consider opportunities to remove costs from the energy value chain.

Financial summary

Labour-related expenses and IT, forecasting and operating system maintenance, and investments required to plan and operate Australia's electricity and gas systems and markets represent the bulk of AEMO's expenses. AEMO funds its technology-related investments through debt borrowings and participants' fees are set to recover the debt over the life of the asset. Where possible, AEMO also seeks grant funding for some of its capital investments.

AEMO's operating and capital budgets reflect the direct impact on the organisation of the significant transformation occurring in the energy industry. The volume of rule changes in the NEM, as a result of this transformation, has tripled in the past three years and virtually all these rule changes directly impact AEMO. This means either new compliance functions or implementation of rule and market changes, all of which have associated expenses. Obligations and technology investments have increased in the areas of system planning, cyber security protections, connections analysis and commissioning and market and operations consultation. The recent bush fires and current COVID-19 pandemic have provided harsh reminders of the additional need to build resilience and invest in our systems to enhance our rapid response capability.

To manage the sheer complexities involved with planning and operating systems with rapid changes and dependence on variable renewable and distributed resources, along with the forecasting and analysis of the operating capabilities of aging thermal resources, AEMO has increased personnel and capital investment in our forecasting, modelling and power system operations. These efforts are complemented by continued work in supporting technical standards for consumer investments in roof top solar, distributed storage and energy efficiency capabilities, while enabling information access for consumers to manage their energy use and, most importantly, their energy bills.

Apart from these requirements, after more than a decade of operations as AEMO and predecessor organisations, AEMO's existing information architecture is no longer capable of keeping up with both the data requirements and speed required to meet the sector's changing needs. Without requisite investment, AEMO's technology platforms and systems will fall short of meeting the changing needs of Australia's energy systems.

The COVID-19 pandemic and associated economic downturn are impacting AEMO's actual and forecast revenue, due to falling electricity demand reducing total MWh volumes. AEMO has managed this impact on its revenue to date through reductions in operating costs and improved use of technology. Based on best current estimates, AEMO expects to manage a continued forecast reduction in revenue into 2020-21, dependent on the pandemic's ongoing impact on the broader economy.

While the above drivers also impact AEMO's largely fixed costs, AEMO wants to ensure it is operating efficiently and adding value to the consumer's energy dollar. To this end, AEMO is undertaking a comprehensive review of its ways of working and its planned technology investment. This review will be undertaken through an external consultancy and is expected to drive further efficiencies and inform AEMO's operating model of the future.

As the energy transition continues to accelerate, AEMO's funding structure appears increasingly incompatible with our functional demands. Going forward, we will engage with industry and government members on both the structure of participant fees and on alternative future funding and operating models to lower costs across energy value chains.

Final Budget

In considering stakeholder feedback and the pressure on all elements of the energy supply chain caused by COVID-19, AEMO recognises that the previous guidance of a projected fee increase of 12% in NEM fees is challenging for members. AEMO will be reducing the NEM fee increase from a projected 12% down to 9% for the financial year 2021. Options are being considered internally as to how this decrease can best be managed, while minimising the impact on most of the services we provide.

AEMO's budgeted expenditure for 2020-21 is \$248.1 million, and its accumulated deficit at the end of the fiscal year (excluding the Victorian transmission network service provider [TNSP] function) is estimated to be \$62.3 million.

Under our current business structure, AEMO does not retain operating capital but instead relies on debt borrowings to pre-fund known capital expenses and any unrecovered operating expenses. AEMO's current capital requirements cover ongoing maintenance of its operating systems and license fees, upgrades to forecasting and decision tools to address increasing complexities in system planning and operations, required investments in cyber security, and market reforms such as the implementation of 5 minute and global settlement and the reforms of the WEM.

Additionally, AEMO's existing IT platforms and architecture were no longer able to cope with the speed, scope of change and data requirements we are experiencing. We are in the second year of a multi year digital uplift that will allow us to use cloud technology and reduce the cost of our internal operations and costs to our members. Our funding envelope of up to \$500 million available debt supports our ability to meet projected capital requirements.

While this model was suitable in the past when technological changes and evolving market requirements were incremental, the material increase in AEMO's obligations of recent years (and increased reform implementation) has increased the operating complexity and AEMO expects this trend to continue into the future.

For many markets and services that AEMO operates, fees will decline in the coming year. Across 11 fee sets, AEMO is pleased to be able to provide for a reduced fee in 2020-21. However, the NEM fee is increasing which reflects the need for additional investment as well as smoothing the recovery of costs over a longer period.

Given the rate of change occurring across the NEM in both markets and operations, in 2018 AEMO elected to cap the rate of its NEM fee increases to mitigate the impact on participants. The accumulated deficit reflects the delay in recovery of AEMO's costs that are the result of this voluntary fee cap.

The table below provides a summary of the final 2020-21 profit and loss and accumulated surplus/(deficit) position, in comparison to the 2019-20 budget.

Table 1 Summary profit and loss

Profit and loss (\$m)	AEMO (ex Vic TNSP) 2019-20 Budget	AEMO (ex Vic TNSP) 2020-21 Budget	Variance	Vic TNSP 2019-20 Budget	Vic TNSP 2020-21 Budget	Variance
Net revenue	198.4	220.2	21.8	19.1	34.3	15.2
Operating expenditure	235.6	248.1	12.5	22.3	31.1	8.8
Surplus/(deficit)	(37.3)	(28.0)	9.3	(3.2)	3.2	6.4
Acc. surplus/(deficit)	(42.0)	(62.3)	(20.3)	(0.1)	1.8	1.9

Capital program

AEMO's planned capital expenditure relates primarily to:

- A refresh of information technology systems that are nearing end-of-life, end-of-service with a digital capability.
- Ongoing maintenance and improvements of legacy systems, including licensing fees.
- Enhancements to cyber security, forecasting, modelling, and operational decision analysis tools.
- The design and implementation of the technical integration of DER into the network.
- Regulatory compliance programs, including market implementations such as Five Minute Settlement (5MS) and Global Settlements.

AEMO is currently conducting an internal review of the capital program and has engaged an external party to conduct a review with an objective of reducing the program while balancing the impact on stakeholders.

Table 2 is a summary of the capital program.

Table 2 Capital program summary

Capital Expenditure (\$'m)	2019-20 and prior	Budget 2020-21	Estimate 2021-22	Estimate 2022-23
Digital Platform, System and Cyber Refresh and ongoing maintenance	104.6	87.4	73.3	83.0
DER Integration – Net of estimated Govt funding	21.6	20.4	(2.3)	1.4
Regulatory Compliance Programs	43.2	56.2	25.0	18.4
Net Capital Expenditure	169.4	164.0	96.0	102.8

Further detail is provided in Section 3 of this document.

Impact on fees

AEMO has a number of separate functions, of which operating the systems and markets in the National Electricity Market (NEM) is the largest. Each function has its own fees, which are set in accordance with published fee structures. Fees are set on a cost recovery basis, and new initiatives and any under-recovery are funded via a debt facility.

The key points of the 2020-21 fees are:

- Most gas fees will be decreasing in 2020-21.
- The NEM fee is increasing by 9%, driven by the factors outlined above. This is a reduction from the foreshadowed 12% included in our draft consultation, following stakeholder feedback. It will require AEMO to reduce or cease some activities.
- Western Australian fees are aligned to the allowable revenue approved by the Western Australian Economic Regulation Authority (ERA).
- National Transmission Planner fees are increasing as a result of AEMO's expanded role to deliver an actionable Integrated System Plan (ISP). The costs associated with the development of the first actionable ISP will continue to be reviewed and refined.
- The Victorian TNSP fees are increasing, predominantly due to costs relating to the procurement of Western Murray System Strength Remediation services, operating costs linked with the Western Victoria Renewable Integration project, and a ramp up in regulatory investment activities associated with the Victoria to New South Wales Interconnector (VNI) West project.

Expenses and fees beyond 2020-21

There are a number of factors that may impact fees beyond 2020-21, which include:

- As the current determinations on the structure of participant fees for both electricity and gas conclude on 30 June 2021, AEMO will be undertaking an extensive consultation to determine new structures for participant fees for future years that will consider the evolving nature of the energy system and the services that AEMO provides in accordance with the principles set out in the relevant rules.
- New regulatory developments, which are being considered by the Energy Security Board (ESB) and the Australian Energy Market Commission (AEMC) through the rule change process. For instance, this would include the timing of the introduction of markets to procure demand response, and other potential changes including ahead, two-sided and essential security markets.
- Unforeseen revenue and system impacts, as well as new responsibilities, as a result of the COVID-19 pandemic and its aftermath.

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1. Fees

1.1 National Electricity Market

Purpose of this function	Power system security and reliability Market operations and systems Wholesale metering, settlements and prudential supervision Longer-term energy forecasting and planning services (For the eastern and southern Australian states)
Fees	<p>The projected NEM fee for 2020-21 is \$0.54/MWh (+9%).</p> <p>The NEM fee increases reflects the need for additional investment as well as smoothing the recovery of costs over a longer period.</p> <p>As detailed above, the additional investment is being driven by:</p> <ul style="list-style-type: none"> • Increased system and market complexity • Increased compliance obligations • Increased stakeholder engagement and reporting requirements <p>The costs associated with the Five Minute Settlement (5MS) project are not included, as cost recovery is not expected to commence before 2021-22.</p>

Table 3 NEM projected fees (indicative benchmark)

Fee	Actual 2019-20	Budget 2020-21
NEM fee \$/MWh)	0.50	0.54 +9%

AEMO's costs represent approximately 0.2% - 0.3% of an average household electricity bill.

This equates to a cost of approximately \$4 per customer per year.*

1.1.1 NEM energy consumption

NEM consumption is forecast to decline in 2020-21, reflecting the current best estimate as a result of the economic slowdown due to COVID-19. This in turn impacts those elements of the NEM fees that are linked to energy consumption.

Table 4 below outlines the budget energy consumption used to calculate the NEM fee. This fee will be reviewed for the reasons indicated in the *Introduction and overview*.

Table 4 NEM consumption

GWh	Budget 2019-20	Forecast* 2019-20	Budget 2020-21
NEM	179,387	178,904 -0.3%	176,391 -1.7%

* Forecast annual consumption at June 2020.

* Key assumptions:

- 10m NEMs in the NEM of which 8.8m are households, 1.1m small businesses and 0.1m large businesses.
- 57% of consumption relates to large business, 28% to households and 15% to small business.
- Consumption of less than 10Mwh per annum is considered a household.

1.2 Full Retail Contestability (FRC) Electricity

Purpose of this function	<p>To facilitate retail market competition in the east coast and southern states of Australia by managing and supporting:</p> <ul style="list-style-type: none"> • Data for settlement purposes • Customer transfers • Business to business processes • Market procedure changes
Fees	The FRC Electricity fee for 2020-21 will remain unchanged at \$0.02550 per connection point per week.

Table 5 FRC electricity projected fees

Fee	Actual 2019-20	Budget 2020-21
\$ per connection point per week	0.02550	0.02550 0%

1.3 National Transmission Planner (NTP)

Purpose of this function	Delivering an actionable Integrated System Plan (ISP)
Fees	<p>On 1 July 2020, the ISP will replace the initial stages of the RIT-T process, providing a ready-made modelling suite with assumptions, transparent justifications for actionable projects and greater certainty of success once a project has been determined actionable.</p> <p>The plan will also include Renewable Energy Zones for the first time.</p> <p>The above changes along with prior year under-recovery of NTP costs has increased the fee for 2020-21. The costs associated with the development of the first actionable ISP will continue to be reviewed and refined.</p>

Table 6 National Transmission Planner projected revenue requirement and operating costs

(\$m)	Budget 2019-20	Budget 2020-21
Revenue requirement	\$5.5m	\$19.9m
Annual operating costs	\$10.1m	\$15.9m

1.4 Victorian Electricity Transmission Network Service Provider (TNSP)

Purpose of this function	<ul style="list-style-type: none"> • AEMO provides shared transmission network services to users of the Victorian Declared Transmission System (DTS). • These services include the planning of future requirements and procuring of augmentations in the DTS.
Fees	<p>Transmission Use of System (TUOS) fees are calculated on an annual break-even basis, and are predominately influenced by network charges billed by the Victorian electricity transmission network owners and by estimations of settlement residue receipts.</p> <p>The fees for 2020-21 are 7.6% higher than the 2019-20 fees, mainly due to:</p> <ul style="list-style-type: none"> • An increase relating to procurement of Western Murray System Strength Remediation services, operating costs linked with the Western Victoria Renewable Integration project, and a ramp up in regulatory investment activities associated with the Victoria to New South Wales Interconnector (VNI) West project; and • Lower settlement residue income for the Victorian region as a result of lower estimated spot prices, partly offset by higher estimated Settlement Residue Auction proceeds.

Table 7 Projected TUOS revenue requirement

Fee	Actual 2019-20	Budget 2020-21
TUOS fees ('000)	549,555	591,499 +7.6%

1.5 Western Australia Wholesale Electricity Market (WEM)

Purpose of this function	<ul style="list-style-type: none"> • Power system security and reliability • Market operations and systems • Wholesale metering, settlements and prudential supervision • Preparing for and implementing the WA Government's WEM and Constrained Access Reforms • Longer-term energy forecasting and planning services
Fees	<p>The current WEM fee is \$0.861/MWh.</p> <p>This fee is to increase to \$0.894 (+4%) in 2020-21, lower than the prior year estimate. The increase is as a result of additional activities and complexity in the WEM including ongoing system management transition work. This increase is in line with the ERA's allowable revenue determination.</p>
Other notes	<p>The current three-year ERA determination on AEMO's allowable revenue and capital expenditure covers the period from 1 July 2019 to 30 June 2022.</p>

Table 8 WA WEM fees

Fee	Actual 2019-20	Budget 2020-21
WEM Market Operator fee (\$/MWh)	0.362	0.380 +5%
WEM System Management fee (\$/MWh)	0.499	0.514 +3%
WEM fee (\$/MWh)	0.861	0.894 +4%
WEM fee (indicative benchmark) * (\$/MWh)	1.722	1.788

* The fee listed above is a benchmark fee calculated by dividing the total cost of the WEM functions by the total forecast consumption. The actual fee charged to both Market Customers and Generators is \$0.380/MWh and 0.514/MWh for the Market Operations and System Management functions respectively.

1.5.1 WEM energy consumption

Consumption is expected to decrease by 3.5% in 2020-21 due to the impact of an expected economic slowdown as a result of COVID-19, continued increases in rooftop PV, and lower industrial load forecast.

Table 9 WEM consumption

GWh	Budget 2019-20	Forecast* 2019-20	Budget 2020-21
Load forecast	18,221	17,665 -3.0%	17,589 -3.5%

* Forecast annual consumption at June 2020.

1.6 Declared Wholesale Gas Market (DWGM)

Purpose of this function	<p>To enable competitive dynamic trading based on injections and withdrawals from the transmission system that links producers, major users and retailers</p> <p>This market provides the following broad services:</p> <ul style="list-style-type: none"> • Gas system security, market operations and systems • Gas system reliability and planning • Wholesale metering and settlements • Prudential management
Fees	<p>Energy tariff</p> <p>The current energy tariff is \$0.08713/GJ.</p> <p>This fee is to increase by 2% to \$0.08887/GJ in 2020-21. The fee increase is driven by lower forecast energy consumption in 2020-21.</p> <p>Distribution meter fee</p> <p>The distribution meter fee is paid by each market participant connected to a Declared Distribution System, or whose customers are connected to a Declared Distribution System, at a connection point which there is an interval metering installation.</p> <p>The distribution meter fee relates to metering data services and is to decrease by 6% to \$1.28580 per meter per day in 2020-21 to return a prior year surplus.</p> <p>Participant Compensation Fund</p> <p>The Participant Compensation Fund fee is not required to be charged in 2020-21, as the current level of DWGM PCF funds being held meets the Rules requirement.</p>

Table 10 Projected DWGM fees

Fee	Actual 2019-20	Budget 2020-21
Energy tariff (\$/GJ)	0.08713	0.08887 +2%
Distribution Meter (\$/day per meter)	1.36970	1.28580 -6%
PCF Fee (\$/GJ)	0	0

1.6.1 DWGM energy consumption

The budgeted consumption for 2020-21 is based on data used in the March 2020 Gas Statement of Opportunities (GSOO) with updated information to reflect the current outlook.

Table 11 DWGM energy consumption

TJ	Budget 2019-20	Forecast* 2019-20	Budget 2020-21
Domestic	126,870	137,613	127,993
Industrial	65,609	67,152	65,745
Export	41,982	33,528	22,909
GPG	4,519	15,283	14,553
Total	238,980	253,576	231,200
		+6.1%	-3.3%

* Forecast annual 2019-20 consumption at June 2020.

1.7 Short Term Trading Market (STTM)

Purpose of this function

To enable a wholesale market gas balancing mechanism at the gas hubs – Sydney, Adelaide and Brisbane

The market is a day ahead market for each hub, and the market sets a daily market price

The STTM function provides the following broad services:

- **Market operations and systems**
- **Market Operator Service (MOS) – AEMO recovers the pipeline operators' service costs for their portion of operating costs in relation to the STTM and recovers this from participants**
- **Wholesale metering and settlements**
- **Prudential management**

Fees

The current STTM fee is \$0.04258/GJ.

This fee is to decrease by 13% to \$0.03684/GJ in 2020-21 as the costs associated with the establishment of the STTM have been fully recovered.

Participant Compensation Fund

The Participant Compensation Fund fee is not required to be charged in 2020-21, as the current level of STTM PCF funds being held meets the Rules requirement.

Table 12 Projected STTM fees

Fee	Actual 2019-20	Budget 2020-21
Activity Fee (\$/GJ withdrawn)	0.04258	0.03684 -13%
PCF Fee – Syd (\$/GJ withdrawn per hub per ABN)	0	0
PCF Fee – Adel (\$/GJ withdrawn per hub per ABN)	0	0
PCF Fee – Bris (\$/GJ withdrawn per hub per ABN)	0	0

1.7.1 STTM energy consumption

The STTM energy consumption forecast is based on data used in the March 2020 GSOO, with updated information to reflect the current outlook. Forecast 2020-21 consumption is closely aligned to the 2019-20 forecast.

Table 13 Projected STTM energy consumption

TJ	Budget 2019-20	Forecast* 2019-20	Budget 2020-21
Adelaide	21,543	20,893	20,327
Brisbane	31,489	31,927	31,173
Sydney	92,239	88,568	87,979
Total	145,272	141,388	139,479
		-2.7%	-1.3%

* Forecast annual 2019-20 consumption at June 2020.

1.8 FRC Gas Markets

Purpose of these functions To provide the services and infrastructure to allow gas consumers to choose their retailer while also providing the business to business interactions to support efficient operation of the market.

The following broad services are provided:

- Support retail market functions and customer transfers.
- Manage data for settlement purposes.
- Implement market procedure changes.
- Operate the central IT systems that facilitate retail market services.

(Operated in Victoria, Queensland, South Australia, New South Wales and Western Australia)

1.8.1 Victorian FRC Gas

Fees The current Victorian FRC Gas fee is \$0.06548 per customer supply point/month. This fee is to decrease to \$0.06221 (down 5%) in 2020-21, due to a reduction in costs to provide this service.

Table 14 Projected Victorian FRC gas fees

Fee	Actual 2019-20	Budget 2020-21
FRC Gas Tariff (\$ per customer supply point per month)	0.06548	0.06221 -5%
Initial Registration Fee (\$ per participant)	19,000	19,570 +3%

1.8.2 Queensland FRC Gas

Fees The current Queensland FRC Gas fee is \$0.24482 per customer supply point/month. This fee is to increase to \$0.26441 in 2020-21. This fee has been reduced over recent years to return an accumulated surplus to participants, and the increase reflects the fee returning to its base level.

Table 15 Projected Queensland FRC gas fees

Fee	Actual 2019-20	Budget 2020-21
FRC fee (\$ per customer supply point per month)	0.24482	0.26441 +8%
Initial Registration Fee (\$ per participant)	17,000	17,510 +3%

1.8.3 South Australia FRC Gas

Fees The current South Australian FRC Gas fee is \$0.20839 per customer supply point/month. This fee is to decrease to \$0.20214 (down 3%) in 2020-21, due to a reduction in costs to provide this service.

Table 16 Projected South Australia FRC gas fees

Fee	Actual 2019-20	Budget 2020-21
FRC fee (\$ per customer supply point per month)	0.20839	0.20214 -3%
Initial Registration Fee (\$ per participant)	16,000	16,480 +3%

1.8.4 New South Wales FRC Gas

Fees	The current New South Wales (including Australian Capital Territory) FRC Gas fee is \$0.15097 per customer supply point/month. This fee is to decrease to \$0.14040 (down 7%), due to system costs being fully amortised by end of 2020-21.
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Table 17 Projected New South Wales FRC gas fees

Fee	Actual 2019-20	Budget 2020-21
FRC fee (\$ per customer supply point per month)	0.15097	0.14040 -7%

1.8.5 Western Australia FRC Gas

Fees	The fee for 2020-21 is to decrease by 5% to \$0.12170, due to a reduction in costs to provide this service.
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Table 18 Projected Western Australia FRC gas fees

Fee	Actual 2019-20	Budget 2020-21
FRC fee (\$ per customer supply point per month)	0.12811	0.12170 -5%
Initial Registration Fee – member	13,163	13,435
Initial Registration Fee – associate member	2,632	2,686
Annual Fee – Member	20,231	20,649
Annual Fee - Associate Member	3,945	4,027

Note: associate members are self-contracting users that are party to the WA Gas Retail Market Agreement. The 2020-21 registration and annual fees are calculated according to clause 362A(5) of the Retail Market Procedures (WA).

1.9 Eastern and South Eastern Gas Statement of Opportunity (GSOO)

Purpose of this function	To report the supply adequacy of eastern and south-eastern Australian gas markets to meet energy needs – AEMO reports on demand and supply, and delivery constraints projected for the next 20 years Retailers across the FRC gas market jurisdictions are currently charged for GSOO costs at a flat rate per customer supply point
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Fees	The current GSOO fee is \$0.03989 per customer supply point/month. This fee is to decrease to \$0.03869 (down 3%) in 2020-21, due to a reduction in costs to provide this service.
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Table 19 Projected GSOO fees

Fee	Actual 2019-20	Budget 2020-21
GSOO (\$ per customer supply point per month)	0.03989	0.03869 -3%

1.10 Gas Supply Hub (GSH)

Purpose of this function	<p>To provide an exchange for the wholesale trading of natural gas to enable improved wholesale trading for an east coast gas market affected by significant liquefied natural gas (LNG) exports in Queensland – through an electronic platform, GSH participants can trade standardised, short-term physical gas products at each of the three foundation pipelines connecting at Wallumbilla</p> <p>AEMO centrally settles transactions, manages prudential requirements and provides reports to assist participants in managing their portfolio and gas delivery obligations</p>
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Fees	<p>Fees are determined outside of AEMO’s budget and fee setting process and are set within the Gas Supply Hub exchange agreement with consultation with stakeholders when changes are made.</p>
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The GSH fee schedule is included in this report for information purposes.

Table 20 Projected GSH fees

Fee	Fee type	Actual 2019-20	Budget 2020-21
Trading participants	Fixed Fee - one licence per annum	12,000	12,000
	Fixed Fee - additional licence per annum	12,000	12,000
	Variable transaction fee		
	• Daily product fee (\$/GJ)	0.03	0.03
	• Weekly product fee (\$/GJ)	0.02	0.02
	• Monthly product fee (\$/GJ)	0.01	0.01
Reallocation participants	Fixed fee per annum	9,000	9,000
Viewing participants	Fixed fee per annum	3,600	3,600

1.11 Gas Capacity Trading (CTP)

Purpose of this function	<p>To facilitate the secondary trading of pipeline capacity.</p> <p>The following broad services are provided:</p> <ul style="list-style-type: none"> • Settlement and prudential management of capacity transactions. • Exchange transaction information with facility operators to facilitate the delivery of capacity transactions. • Update STTM contract rights and DWGM accreditations in accordance with transactions in integrated products.
Fees	There is minimal change to the fees for 2020-21.

Table 21 Projected CTP fees

Fee	Fee type	Actual 2019-20	Budget 2020-21
Capacity Trading Platform (CTP)	Fixed Fee - one licence per annum (commodity & capacity)	12,000	12,000
	Fixed Fee - one licence per annum (capacity only)	7,000	7,000
	Variable transaction fee		
	• Daily product fee (\$/GJ)	0.044	0.045
	• Weekly product fee (\$/GJ)	0.034	0.035
	• Monthly product fee (\$/GJ)	0.024	0.025
	Initial Registration Fee - Facility Operators (\$ per participant)	15,000	15,450

Note: the variable transaction fees for CTP are including a fee of \$0.00309 relating to OTS code panel.

1.12 Day Ahead Auction (DAA)

Purpose of this function	<p>To reallocate contracted but unominated transportation capacity to shippers that value it the most</p> <p>The following broad services are provided:</p> <ul style="list-style-type: none"> • Auction platform to allocate capacity to shippers • Settlement and prudential management of auction transactions • Provide auction results to facility operators to facilitate the delivery of auction transactions • Update DWGM accreditations in accordance with transactions to a DWGM interface point
Fees	There is minimal change to the fees for 2020-21.

Table 22 Projected DAA fees

Fee	Fee type	Actual 2019-20	Budget 2020-21
Day ahead Auction (DAA)	Variable fee (\$/GJ)	0.034	0.035 +3%
	Initial Registration Fee - Auction participants (\$ per participant)	15,000	15,450

Note: the variable fee for DAA is including a fee of \$0.00309 relating to OTS code panel.

1.13 Operational Transportation Service (OTS) Code Panel

Purpose of this function	To assess and consult on proposals to amend the Operational Transportation Service Code and develop proposals to amend the Code, prepare impact and implementation reports on proposals, make recommendations in relation to proposals, report to the AER on proposals, develop proposals at the request of the AER and other related functions
Fees	OTS code panel fee of \$0.00309 per GJ is levied on all CTP and DAA trades.
Other notes	AEMO is permitted to recover costs incurred in relation to the OTS Code Panel including establishing and operating the OTS Code Panel, the participation of the AEMO member of the OTS Code Panel and providing services to facilitate the functioning of the OTS Code Panel.

Table 23 Projected OTS Code Panel fees

Fee	Fee type	Actual 2019-20	Budget 2020-21
OTS Code Panel (\$/GJ)	Variable fee (\$/GJ)	0.00300	0.00309 +3%

1.14 Gas Bulletin Board (GBB)

Purpose of this function	To provide information relating to gas production, transmission, storage and usage for facilities that are connected to the east coast gas market GBB provides market participants timely data to assist in decision making. This includes capacity outlooks, nominations and forecasts, actual flows, linepack adequacy and additional information for maintenance planning
Fees	The fee is \$0.00048/GJ for Producers and \$0.00244/GJ for Participants in Wholesale Gas Markets. These fees are to decrease by 12% and 9% in 2020-21 as a result of lower costs to provide the service.

Table 24 Projected GBB fees

Fee	Actual 2019-20	Budget 2020-21
Producer (\$/GJ)	0.00054	0.00048 -12%
Participants in Wholesale Gas Market (\$/GJ)	0.00268	0.00244 -9%

1.15 Western Australian Gas Services Information (GSI)

Purpose of this function

To ensure:

- Security, reliability and availability of the supply of natural gas
- Efficient operation and use of natural gas services
- Efficient investment in natural gas services
- Facilitation of competition in the use of natural gas services

The GSI function includes the GBB [WA] and WA GSOO:

- Similar to the GBB on the East Coast, the WA GBB is an information website hub to provide flow information on gas, transmission, storage, emergency management with supply disruptions, and demand in WA
- The WA GSOO is an annual planning document providing medium to long-term outlook of WA gas supply and demand and transmission and storage capacity

Fees

The current GSI recovery is \$1.708m.

The recovery is to reduce to \$1.115 in 2020-21, as a result of lower costs to perform the function.

Other notes

The current three-year ERA determination on AEMO's allowable revenue and capital expenditure covers the period from 1 July 2019 to 30 June 2021.

Table 25 Projected GSI fees

Revenue requirement	Actual 2019-20	Budget 2020-21
AEMO GSI revenue requirement (\$'000)	1,708	1,115

1.16 Other budgeted revenue requirements

AEMO also collects revenue to recover the costs of the following functions. The SA planning function costs have remained stable while the settlement residue auction revenue requirements have reduced.

Table 26 Other revenue requirements

Other revenue requirement	Actual 2019-20	Budget 2020-21
SA Planning (\$'000)	1,000	1,000
Settlement Residue Auctions (\$'000)	718	626

1.17 Energy Consumers Australia (ECA)

Purpose of this function	To promote the long-term interests of energy customers, residential and small business customers
Fees	<p>AEMO is required to recover the funding for the ECA from market participants (i.e. pass through recovery). Total expenditure budgeted by the ECA to be recovered in 2020-21 is \$7.9m (2019-20: \$7.6m).</p> <p>The electricity ECA fee is \$0.01185 per connection point per week in 2020-21 (10% increase) to reflect an increase in the ECA budgeted revenue requirement and an under-recovery in 2018-19 that was not fully accounted for in the 2019-20 fee.</p> <p>The gas ECA fee is \$0.03429 per customer supply point per month in 2020-21 (4% decrease) mainly due to a small surplus in the 2019-20 financial year.</p>

Table 27 ECA requirements

AEMO's ECA Fees	Actual 2019-20	Budget 2020-21
Electricity (\$/connection point for small customers per week)	0.01082 +10%	0.01185 +10%
Gas (\$/customer supply point per month)	0.03556 +0%	0.03429 -4%

2. Financials

2.1 Consolidated profit and loss 2020-21

Table 28 Consolidated profit and loss 2020-21

	AEMO (excl. Vic TNSP)			Victorian TNSP			AEMO			Note
	Budget 2019-20 \$'000	Budget 2020-21 \$'000	Variance \$'000	Budget 2019-20 \$'000	Budget 2020-21 \$'000	Variance \$'000	Budget 2019-20 \$'000	Budget 2020-21 \$'000	Variance \$'000	
REVENUE										
Fees and Tariffs	186,896	205,785	18,889	-	-	-	186,896	205,785	18,889	A
TUoS Income	-	-	-	549,555	591,499	41,944	549,555	591,499	41,944	B
PCF Fees	1,000	1,000	-	-	-	-	1,000	1,000	-	
Settlement Residue	-	-	-	63,000	52,017	(10,983)	63,000	52,017	(10,983)	C
Other Revenue	10,461	13,400	2,939	59,884	60,662	778	70,345	74,062	3,717	D
TOTAL REVENUE	198,357	220,185	21,828	672,439	704,177	31,739	870,796	924,363	53,567	
NETWORK CHARGES										
	-	-	-	(653,394)	(669,893)	(16,499)	(653,394)	(669,893)	(16,499)	E
NET REVENUE	198,357	220,185	21,828	19,045	34,285	15,240	217,402	254,470	37,068	
OPERATING EXPENDITURE										
Total Labour	174,372	200,452	26,080	9,480	10,247	767	183,852	210,699	26,847	
Contractors	1,508	2,817	1,309	260	244	(16)	1,768	3,061	1,293	F
Capitalised internal labour	(44,273)	(50,991)	(6,718)	(115)	(96)	18	(44,388)	(51,087)	(6,700)	
Consulting	19,846	12,913	(6,933)	4,578	11,641	7,063	24,423	24,553	130	G
Fees-Agency, Licence and Audit	2,166	2,133	(33)	-	-	-	2,166	2,133	(33)	
Information Technology and Telecommunication	31,333	33,281	1,948	188	16	(172)	31,522	33,297	1,776	H
Occupancy	7,467	8,248	782	-	-	-	7,467	8,248	782	I
Training & Recruitment	4,019	4,145	126	64	102	38	4,082	4,247	165	J
Travel & Accommodation	3,424	2,381	(1,043)	78	87	9	3,502	2,468	(1,034)	
Other Expenses from Ordinary Activities	8,418	8,800	382	11	38	27	8,429	8,838	409	K
Depreciation and Amortisation	31,017	28,445	(2,573)	9	12	3	31,026	28,457	(2,569)	L
Financing Costs	869	1,393	524	-	-	-	869	1,393	524	M
OPERATING EXPENDITURE (excluding external recoverable costs)	240,166	254,016	13,850	14,553	22,291	7,738	254,719	276,307	21,588	
External Recoverable Consultancy	1,367	1,657	290	1,821	1,302	(519)	3,188	2,959	(230)	
Corporate Recovery	(5,887)	(7,529)	(1,642)	5,887	7,529	1,642	-	(0)	(0)	
TOTAL OPERATING EXPENDITURE	235,646	248,144	12,498	22,261	31,122	8,861	257,907	279,266	21,359	
ANNUAL SURPLUS / (DEFICIT)	(37,289)	(27,959)	9,331	(3,216)	3,163	6,379	(40,505)	(24,796)	15,709	
Transfer to Reserves	(1,387)	(1,387)	0	-	-	-	(1,387)	(1,387)	0	
Brought Forward Surplus / (Deficit)	(3,329)	(32,953)	(29,624)	3,085	(1,362)	(4,448)	(244)	(34,316)	(34,072)	
ACCUMULATED SURPLUS / (DEFICIT)	(42,005)	(62,299)	(20,293)	(130)	1,801	1,931	(42,136)	(60,498)	(18,362)	

Notes to consolidated profit and loss 2020-21

Revenue

A Higher fees and tariffs mostly due to additional revenue in the NEM reflecting a 9% uplift in fees. National Transmission Planner (NTP) revenues are also budgeted to materially increase given the broadening of AEMO's role.

B & E TUOS income and Network Charges. Refer to comments in *Section 1.4 Victorian Electricity Transmission Network Service Provider (TNSP)*.

C Decrease in settlement residue estimated in the Victorian region due to lower estimated spot prices, partly offset by higher estimated Settlement Residue Auction proceeds.

D Higher other revenue due to an increase in pass-through costs in the Victorian TNSP function and higher connection revenue.

Expenditure

F Labour uplift reflects a combination of additional resources required to manage:

- The ISP – uplifting the ISP to be an actionable energy roadmap that will replace the initial stages of the Regulatory Investment Test – Transmission (RIT-T), providing a ready-made modelling suite with assumptions, transparent justifications for actionable projects, and, most importantly, greater certainty of project success once a project has been declared actionable.
- The VNI West (RIT-T) project that is being jointly run by AEMO and TransGrid to assess the viability of increasing interconnector capacity between Victoria and New South Wales.
- Additional resources to increase system strength assessments, build capacity to review NEM incidents, support the commissioning of new interconnectors, and increase the analysis and reporting of marginal loss factors (MLFs).
- An uplift in stakeholder engagement across all of the large programs and activities being undertaken across the organisation.

G Consulting costs are broadly in line with an uplift in specialist advice and support regarding increased activities to manage the ISP and RIT-T activities, partly offset by broader consultancy reductions across the organisation.

H IT and Telecommunications costs reflects increased emphasis on national forecasting and modelling utilising cloud technologies, new distributed energy resources (DER) market applications, and critical multi-vendor weather support for grid operations.

I Marginally higher occupancy costs mostly reflect additional resources.

J Marginally higher training and recruitment costs in line with additional resource requirements.

K Other expenses from ordinary activities are higher, mostly due to a material uplift in annual insurance premiums.

L Depreciation and amortisation is lower than 2019-20, due to a reassessment of the useful lives of some projects.

M Higher financing costs reflect an increase in the debt facility.

Note: financing costs relating to capex projects will initially be capitalised and recovered through fees following project completion.

3. Capital expenditure program

Table 29 Capital spend – next three years

Capital Expenditure (\$'m)	2019-20 and prior	Budget 2020-21	Estimate 2021-22	Estimate 2022-23
Digital Platform, System and Cyber Refresh and ongoing maintenance	104.6	87.4	73.3	83.0
DER Integration – Net of estimated Govt funding	21.6	20.4	(2.3)	1.4
Regulatory Compliance Programs	43.2	56.2	25.0	18.4
Net Capital Expenditure	169.4	164.0	96.0	102.8

The above table:

- Provides an estimate of AEMO’s capital program over the following three years.
- Does not include any allowance to fund transformational market initiatives that are as yet unconfirmed but may materialise; for example, the implementation of the Consumer Data Rights program or the implementation of an ahead market and a two-sided market.

AEMO’s capital spend is largely driven by the significant change the industry is going through, which has resulted in a need to refresh current systems and carry out large regulatory-directed programs.

AEMO is required to initially fund the build of these programs via an external debt facility and will commence depreciating these assets, including interest costs, (and recovering these costs from participants) once the programs are completed in forward years.

This results in AEMO being required to take out a large funding facility (currently \$500m).

The current capital program represents AEMO’s current plans, however:

- An internal review of the capital program is currently being conducted with a view to reducing the program while minimising the impact on stakeholders.
- AEMO is working with stakeholders and other regulatory bodies to assess the impact of COVID-19 on the industry reform initiatives.
- AEMO has engaged an external party to conduct a thorough review of the capital program and advise, where practical, if cost and risk can be reduced.

AEMO’s capital program can be broadly grouped into three categories:

- **Digital Platform, System and Cyber Refresh and ongoing maintenance**
 - A high proportion of AEMO’s systems are bespoke and are nearing end of life and need to be replaced. AEMO is planning a significant refresh of its systems over the coming years that will include the development of a modern digital platform that will provide more reliable and transparent data.
 - The ‘do nothing’ option would result in continued higher costs to run, modify and operate AEMO’s systems, due to age, complexity and capability.
 - The significant increase in data volumes necessitates an increase in computational capability, analytics, design, and digitalisation to support the real-time operation of AEMO’s energy systems and markets.

- **DER Integration**

- AEMO is working in partnership with the ESB, market bodies, and stakeholders to design and implement technical integration of DER. AEMO is seeking government funding to minimise the impact on participant fees for these programs.

- **Regulatory Compliance Programs**

- 5MS – the program to move from a 30-minute settlement period to a 5-minute settlement period was initially planned to go live on 1 July 2021. Industry is currently assessing the benefits of a deferral of this go-live date. AEMO is currently continuing work on this program in line with the original date in the AEMC's Rule determination.
- WA Market Reform – AEMO continues to support the WA Government's Foundational Regulatory Frameworks including the planning and implementation of a new market design.
- Wholesale Demand Response – this program will implement a mechanism for third party demand response service providers to participate in the wholesale energy market.

Appendix A. Fee schedules

A1.1 Fee schedule of electricity functions

Table 30 Budgeted total revenue requirement by function

Function	Budget 2020-21 \$'000	Rate	Paying Participants
NEM			
General Fees (unallocated)	28,725	\$0.16280/MWh of customer load	Market Customers
Allocated Fees			
Market Customers	36,193	\$0.20520/MWh of customer load	Market Customers
Generators * and Market Network Service Providers	30,831	Daily rate calculated on 2019 capacity/energy basis	Generators and Market Network Service Providers
NEM Revenue Requirement	95,750		
Participant Compensation Fund	1,000	Daily rate calculated on capacity/energy basis	Scheduled Generators, Semi-Scheduled Generators and Scheduled Network Service Providers
Registration fees	2,800		Participants that intend to register
Other	9,081		Dependent on service provided
Project developer		\$6,180 per assessment per facility	Project developers
NEMDE queue		\$15,00 per application	Registered participants
TOTAL NEM	108,630		
FRC ELECTRICITY			
FRC operations	13,780	\$0.02550 per connection point per week	Market Customers with a Retail Licence
Other		\$850 per book build application	Voluntary Book Build Participant Accreditation Fee
TOTAL FRC ELECTRICITY	13,780		
National Transmission Planner	19,857		Transmission Network Service Providers
Energy Consumers Australia	6,341	\$0.01185/connection point for small customers/week	Market Customers
Additional Participant ID		\$5,500 per additional participant ID	Existing Participants
WA WHOLESALE ELECTRICITY MARKET			
WEM Market Operator fee	13,488	\$0.381/MWh	WA Market Customers and Generators
WEM System Management fee	18,238	\$0.514/MWh	WA Market Customers and Generators

Function	Budget 2020-21 \$'000	Rate	Paying Participants
WA WEM Revenue Requirement	31,726		
WA Economic Regulatory Authority fee		\$0.174/MWh	WA Market Customers and Generators

* Excluding non-market non-scheduled generators

Table 31 Fee schedule of new NEM registrations

Application type	2020-21 \$
Registration as Scheduled Market Generator ^A	23,690
Registration as Semi-Scheduled Market Generator	31,930
Registration as Scheduled Non-Market Generator	17,510
Registration as Semi-Scheduled Non-Market Generator	26,780
Registration as Non-Scheduled Market Generator	20,600
Registration as Non-Scheduled Non-Market Generator	14,420
Registration as Market Customer	11,330
Registration as Market Small Generation Aggregator	11,330
Transfer of Registration	11,330
Registration as Metering Co-ordinator (MC) ^B	11,330
Registration as Market Ancillary Service Provider	16,480
Registration as Network Service Provider	10,300
Registration as Trader	14,420
Registration as Reallocator	13,390
Classification of generating units as frequency control ancillary services (FCAS) generating units ^B	10,300
Classification of load as frequency control ancillary services load – new ancillary services or classify load in a new region ^C	10,300
Classification of a Dedicated Connection Asset	5,150
Amendment of the relevant plant associated with its existing load classification, and/or aggregating further load to its existing load classification for frequency control ancillary services purposes	2,060
Registration as an Intending Participant	6,180
Exemption from registration	6,180
Disbursement Charge – Additional Energy Conversion Model – Semi Scheduled Market Generator	5,150
Disbursement Charge – Additional Energy Conversion Model – Non-Scheduled Market Generator	2,575
Classification of load as wholesale demand response unit – new wholesale demand response unit or classify load in a new region or load forecasting area ^D	10,300
Registration as Demand Response Service Provider	16,480

Application type	2020-21 \$
Amendment of the relevant plant associated with its existing load classification, and/or aggregating further load to its existing load classification for wholesale demand response unit	2,060
Aggregation of existing load already classified as wholesale demand response unit	2,060

A. Each category of Generator in this table includes applications made by persons intending to act as intermediaries.

B. This fee is additional to the fee required to register as a Generator.

C. This fee is additional to the fee required to register as a Market Customer or Market Ancillary Service Provider or Demand Response Service Provider.

D. This fee is additional to the fee required to register as a Demand Response Service Provider.

Note: Fees relating to Demand Response commence upon opening for registration 24 June 2021.

Fee schedule of new WA WEM registrations

Application type	2020-21 \$
Rule Participant Registration Application Fee	1,900
Facility Registration Application Fee	3,800
Facility Transfer Application Fee	1,900
Conditional Certification of Reserved Capacity	1,164
Resubmission - Application for Early Certified Reserved Capacity	10,671
Consumption Deviation Application Reassessment Application Fee for Non-Temperature Dependent Loads and for Relevant Demand (Clause 4.26.2CC and 4.28.9B of the WEM Rules)	515

Note: Rule Participant De-registration and Facility De-registration will remain at zero.

Table 33 Fee schedule of new Power of Choice accreditations

Application type	2020-21 \$
Initial Deposit – Embedded Network Manager	2,000
Initial Deposit – Metering Data Providers	5,000
Initial Deposit – Metering Providers	5,000
Incremental charge rate per hour	Per Table 36

A1.2 Fee schedule of gas functions

Table 34 Gas fee by function

Function	Rate 2020-21	Basis
Vic Declared Wholesale Gas Market		
Energy Tariff	0.08887	\$/GJ withdrawn
Distribution Meter	1.2858	\$/day per meter
PCF	Nil	\$/GJ withdrawn
VIC Gas FRC	0.06221	\$ per customer supply point/ mth

Function	Rate 2020-21	Basis
QLD Gas FRC	0.26441	\$ per customer supply point/ mth
SA Gas FRC	0.20214	\$ per customer supply point/ mth
NSW/ ACT Gas FRC	0.14040	\$ per customer supply point/ mth
WA Gas FRC	0.12170	\$ per customer supply point/ mth
Annual fee – members	20,649	per annum
Annual fee – associate members*	4,027	per annum
STTM		
Activity Fee	0.03684	\$/GJ withdrawn
PCF Fee – Syd	Nil	\$/GJ withdrawn per hub per ABN
PCF Fee – Adel	Nil	\$/GJ withdrawn per hub per ABN
PCF Fee – Bris	Nil	\$/GJ withdrawn per hub per ABN
Energy Consumers Australia	0.03429	\$ per customer supply point/ mth
Gas Statement of Opportunities	0.03869	\$ per customer supply point/ mth
Gas Supply Hub		
Fixed Fee – Trading Participants	12,000	\$ per licence per annum
Fixed Fee – Trading Participants	12,000	\$ per additional licence per annum
Fixed Fee – Reallocation participants	9,000	\$ per licence per annum
Fixed Fee – Viewing participants	3,600	\$ per licence per annum
Variable Fee – Daily product fee	0.03	\$/GJ
Variable Fee – Weekly product fee	0.02	\$/GJ
Variable Fee – Monthly product fee	0.01	\$/GJ
Gas Trading Platform		
Fixed Fee – commodity and capacity	12,000	\$ per licence per annum
Fixed Fee – capacity only	7,000	\$ per licence per annum
Variable Fee – Daily product fee	0.045	\$/GJ
Variable Fee – Weekly product fee	0.035	\$/GJ
Variable Fee – Monthly product fee	0.025	\$/GJ
Day Ahead Auction	0.035	\$/GJ
Gas Bulletin Board		
Producers	0.00048	\$/GJ withdrawn
Wholesale market participants	0.00244	\$/GJ withdrawn
WA Gas Services Information	1,115	\$'000
Additional Participant ID	\$5,500	\$ per additional participant ID

Table 35 Fee schedule of new gas registrations

Market	Budget 2020-21	Basis
Victoria Retail Gas	19,570	\$ per participant
QLD Retail Gas	17,510	\$ per participant
SA Retail Gas	16,480	\$ per participant
NSW Retail Gas	N/A	N/A
WA Retail Gas	13,435	\$ per member
WA Retail Gas	2,686	\$ per associate member
Victoria Wholesale Gas	N/A	N/A
STTM	N/A	N/A
Part 24 Facility Operator	15,450	\$ per facility operator
Day ahead auction – Auction Participant	15,450	\$ per participant
BB allocation agents	15,450	\$ per participant
BB transportation facility user	11,330	\$ per participant
BB capacity transaction reporting agents	11,330	\$ per participant

A1.3 AEMO charge-out rates

Table 36 AEMO charge-out rates

Market	2020-21	Basis
Senior Leadership	490	\$ per hour
Manager/ Specialist	410	\$ per hour
Principal	330	\$ per hour
Senior	290	\$ per hour
Analyst/ Engineer	270	\$ per hour
Officer/ Intern	230	\$ per hour

Symbols and abbreviations

Term	Definition
5MS	5 Minutes Settlement
CTP	Capacity Trading Platform
DAA	Day Ahead Auction
DER	Distributed Energy Resource
DWGM	Declared Wholesale Gas Market
ERA	Economic Regulation Authority
ESOO	Electricity Statement of Opportunities
FRC	Full Retail Contestability
GBB	Gas Bulletin Board
GJ	Gigajoule
GSOO	Gas Statement of Opportunities
TJ	Terajoule
TNSP	Transmission Network Services Provider