sunwater

Mareeba-Dimbulah Water Supply Scheme

Scheme Summary

Thursday 9 November 2023

First Nations Commitment Statement

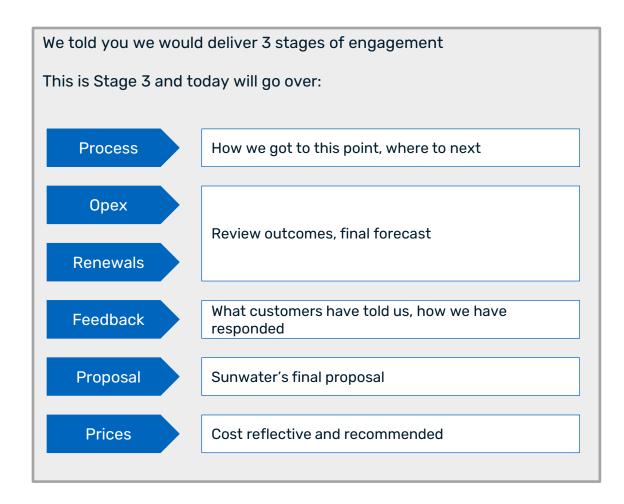
Sunwater acknowledges Aboriginal and Torres Strait Islander peoples as the first peoples of this country and Traditional Owners and Custodians of the land and water we rely on. We respect and value their continued sacred connection to Country, including the diverse, rich traditions, languages and customs that are the longest living in the world. We acknowledge their resilience in the face of significant and ongoing historical, cultural and political change within Australia. We recognise and value the importance of truth-telling today, and our role to listen and learn. Our vision for reconciliation is that we are a nation of unity and fairness for all; a nation that owns its history and acknowledges its First Nations peoples, their strength and their living culture.

Our goal is to work together to realise mutual benefits with First Nations peoples through authentic relationships and respect for cultural value; fostering a sense of belonging and pride in our people, community, customers and stakeholders. We can learn so much from Traditional Custodians who have cared for Country for thousands of years in the way we sustainably manage water and land. Going beyond compliance and embedding reconciliation into core business practices and decision making brings to life our purpose of Delivering Water for Prosperity through Valuing People, Working Together and Taking Responsibility.

This commitment has been endorsed by our Board and Executive Leadership team and reflects what our people, communities, and Shareholders expect of us. Aligned with our Code of Conduct, which describes how we work together no matter our role or where we are located, this commitment statement will be enabled through an Aboriginal and Torres Strait Islander recognition, engagement and participation strategy.

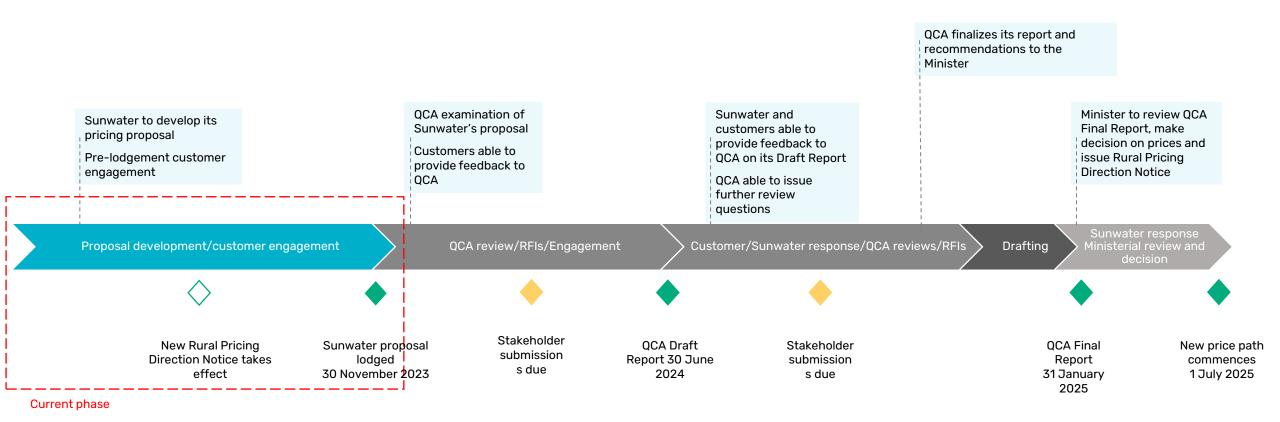
Agenda for today







Recap - Timeline to 1 July 2025

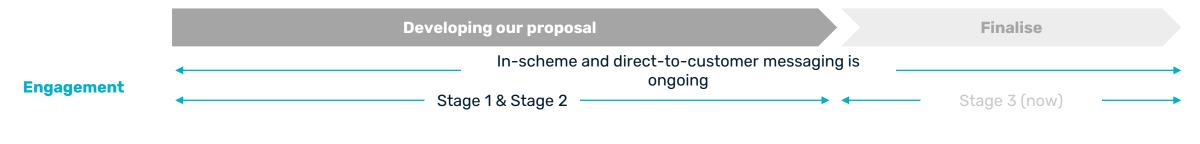




back	Wh	hat customers requested:		at we did:
er feed	•	more detailed information on scheme-specific costs including specific details on renewals expenditure	√	Our Stage 3 engagement materials include details on scheme specific opex costs and renewals projects
Sustom	•	an additional customer meeting	√	We attended an additional meeting in response to a request from Tinaroo Water Committee



Our customers have helped shape our proposal



Cost building blocks

Draft opex and renewals forecasts
Review phase - external prudency and efficiency tests

Final opex and renewals forecasts

Revenue requirement

Annuity and regulated asset-base cost recovery options - renewals Seek customer preferences (renewals cost recovery) Revised per changes to opex and renewals Finalise and share response to customers

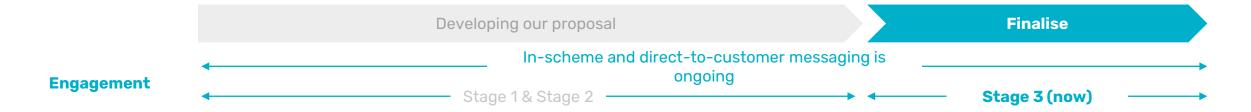
Irrigation prices

Multiple options – renewals cost recovery and electricity cost pass-through Seek customer preferences (renewals costs and electricity cost pass-through)

Finalise and share proposed prices with customers



Our customers have helped shape our proposal - now it's ready to finalise



Cost building blocks

Draft opex and renewals forecasts

Review phase - External prudency and efficiency tests

Revenue requirement

Annuity and regulated asset-base cost recovery options - renewals Seek customer preferences (renewals cost recovery)

Irrigation prices

Multiple options – renewals cost recovery and electricity cost pass-through Seek customer preferences (renewals costs and electricity cost pass-through) Final opex and renewals forecasts

Revised per changes to opex and renewals

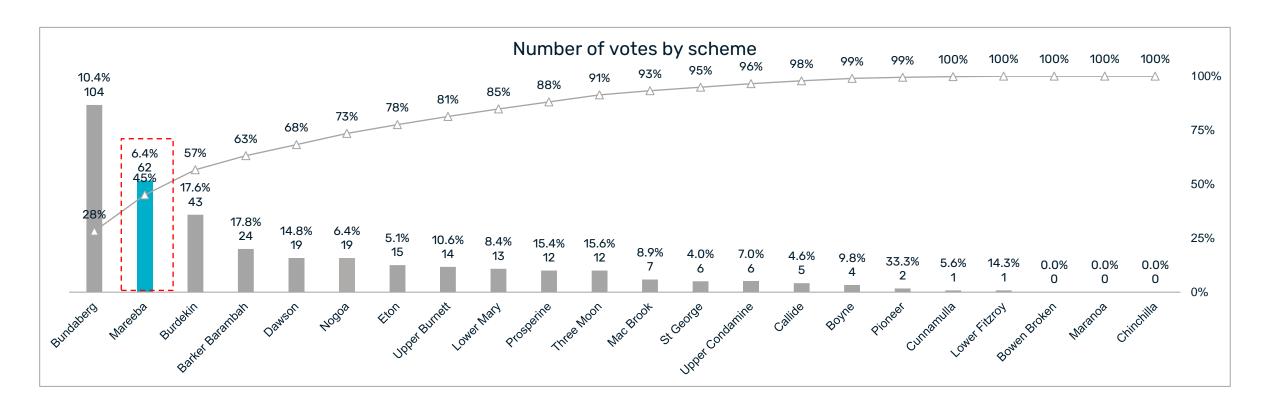
Finalise and share response to customers

Finalise and share proposed prices with customers



What customers told us - feedback process

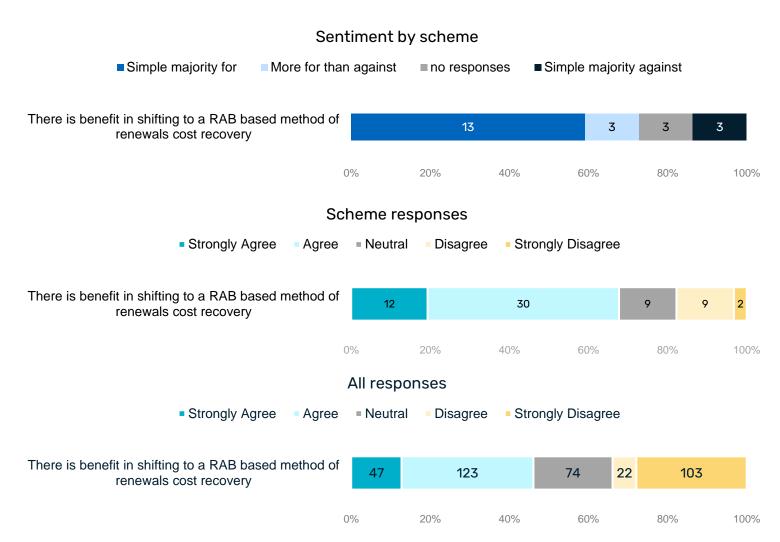
6.4 per cent scheme response rate





What customers told us - RAB Proposal

- Put forward as a change to all water supply schemes
- Sunwater has included a shift to a RAB as part of its submission
- GoVote results show broad customer support

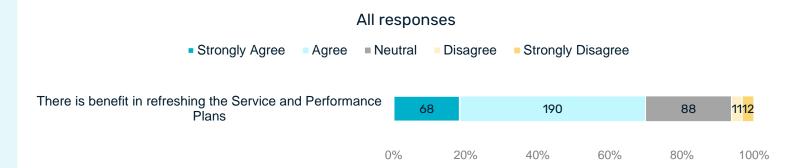




What customers told us - Other proposals

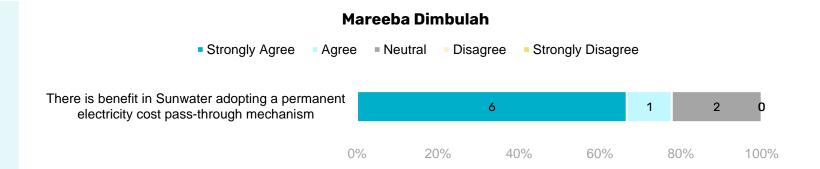
Service and Performance Plans (S&PPs)

- Clear customer support for a refresh of the S&PPs
- Working on publishing 2022-23 actuals in December 2023
- Sunwater welcomes feedback on the content of the refreshed S&PPs



ECPT

- 9 Mareeba (Channel Relift) customers responded
- 0 customers disagreed
- Sunwater welcomes further feedback





Mareeba Supply

Opex base-year and how it changed from Stage 2

Derivation of opex base year - from Stage 2 to Stage 3 engagement ('000s)



Cost categories	2025-26	2026-27	2027-28	2028-29
Insurance	\$324.5	\$332.1	\$339.6	\$346.4
Electricity	\$5.7	\$5.8	\$5.9	\$6.0
Ops & Maint	\$506.0	\$518.2	\$529.1	\$539.6
Support costs	\$1,270.2	\$1,280.2	\$1,309.4	\$1,337.2

\$2,106.3

\$2,136.4

These numbers take the base year and add

Billing system renewal opex allowance

(\$343k per annum)

Inflation forecasts

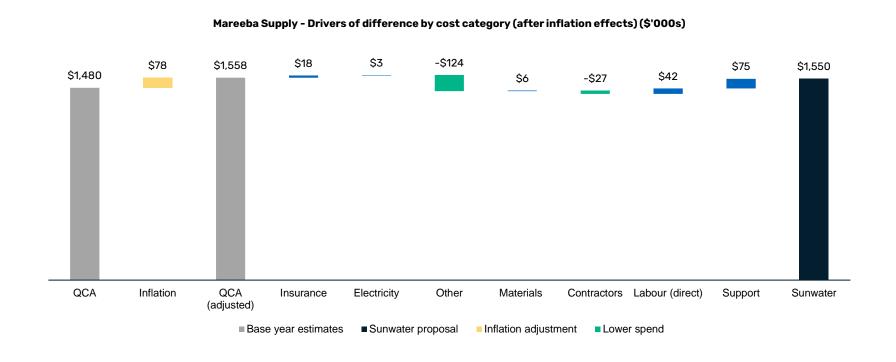
Opex total

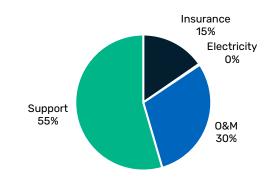


\$2,229.3

\$2,184.1

Base year comparison with QCA





Base year broken into major spend categories



Renewals expenditure - Current pricing period

Current pricing period expenditure and renewals roll-forward (\$'000s)

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	
	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast	
			Current price path period			period		
Opening balance		-\$398.6	-\$450.6	-\$420.7	-\$530.6	-\$406.2	-\$68.3	
Francis dikuma		-\$164.1	-\$619.2	-\$766.7	-\$543.1	-\$351.7	-\$793.8	
Expenditure		Aggregate spend for roll-forward period =-\$3,238.4						
Insurance proceeds								
Annuity Contribution		\$129.5	\$668.8	\$675.1	\$690.7	\$707.3	\$723.2	
Interest		-\$17.4	-\$19.7	-\$18.4	-\$23.2	-\$17.8	-\$3.0	
Closing Balance ¹	-\$398.6	-\$450.6	-\$420.7	-\$530.6	-\$406.2	-\$68.3	-\$141.9	

Note 1: Closing balance for 2018-19 was set by the QCA at the last pricing review. The calculated (forecast) 2024-25 value is used to set the opening balance of the regulated asset base for the price path period.

Significant projects (by value) delivered in this period (\$'000s)

Project name	Year	Value
Comprehensive Risk Assessment - Tinaroo Falls Dam	2020-22	\$694.2
Testing of post tensioning permanent strand anchors at Tinaroo Falls Dam	2022	\$358.1
23TI02-Replace SCADA & Controls TID	2021-23	\$260.9

- Sunwater expects to have delivered \$3.2M in renewals activities for the 2019-20 to 2024-25 period.
- 2. The QCA allowance for the same period was \$2.8M.
- 3. Mareeba Dimbulah Water Supply Scheme is forecast to have a negative annuity closing balance.
- 4. The opening RAB balance for the scheme has been set at \$0.14M.



Renewals expenditure - Forecast

Internal and external prudency and efficiency review

Recommended cost and timing adjustments



Identified new programs

Program	Adjustment to timing (years)	Percentage adjustment to costs
Switchboard and Control Renewal	1	13.8%
Meters	0	-1.3%
Instrumentation	0	-0.6%
Valve Renewal and Replacement	5	-7.3%
Dam-Related Works	0	-2.8%
Safety and Security Assets	0	-22.3%
Pump & Motor	0	-3.8%
Gates	6	-15.2%
SCADA	0	-38.0%
Pipeline Refurbishment / Replacement	15	-7.3%
Channel re-lining and re-shaping	0	2.0%
Civil and Roads (inlet / outlet towers)	1	-2.3%
Mechanical / Minor Works	0	0
Individual Projects	2	-6.1%



Renewals expenditure - Forecast

Internal and external prudency and efficiency review

Recommended cost and timing adjustments

Identified new programs



Most significant additions for your scheme shown on next slide



Program	Scope	Range	Recommended
Dam Instrumentation	 Inconsistencies / gaps in monitoring and management of safety instrumentation across dam sites A risk-based approach for the management and monitoring of instrumentation to provide early warning of the development of trends and behaviours Program of works covering the FY21 to FY28 period 	Low = \$8M High = \$35M	\$18M covering project definition, business case development for recommended site improvements, and construction activities associated with 10 most critical sites
Arc Flash	 Staff entering and operating facilities with switchboards are exposed to arcflash risks Possibility to cause serious long-term harm or death Review of all relevant Sunwater sites – identified 109 sites for investment to mitigate risk 	Low = \$4.3M High = \$50.5M	\$11M covering triage and installation of upstream protection devices and Arc Flash detection relays
Smart Meters	Improved ability to manage water, compliance and safety risks via deployment of smart meters	Low = \$2.1M High = \$8.4M	\$4.2M applying meters to gauging stations and 80% of volume in priority schemes
Dam Safety Management	 Risk management planning and ALARP activities require a range of activities including investigative studies – compliance driven 	Low = \$0M High = \$18.4M	\$8.3M covering required studies for priority dams considered to have a low likelihood of capital intervention



Renewals expenditure - Forecast (four years RAB-aligned)

Category	2025-26	2026-27	2027-28	2028-29	Aggregate	Percentage
18. Dam Instrumentation Program	\$0.0	\$0.0	\$2,506.2	\$0.0	\$2,506.2	42%
20. Dam Safety Management Program	\$1,209.5	\$0.0	\$0.0	\$451.8	\$1,661.3	28%
5. Dam-Related Works Program	\$0.0	\$356.2	\$507.3	\$0.0	\$863.5	15%
17. Arc Flash Program	\$216.3	\$134.0	\$0.0	\$0.0	\$350.2	6%
1. Switchboard and Control Renewal Program	\$0.0	\$47.3	\$0.0	\$14.8	\$62.1	1%
Remaining programs	\$106.3	\$0.0	\$0.0	\$0.0	\$106.3	2%
Sub-total programs	\$1,532.1	\$537.5	\$3,013.5	\$466.5	\$5,549.7	93%
Projects not captured in programs	\$0.0	\$55.6	\$264.6	\$72.4	\$392.6	7%
Total	\$1,532.1	\$593.1	\$3,278.1	\$538.9	\$5,942.3	100%
Сарех	\$1,435.9	\$181.3	\$2,506.2	\$451.8	\$4,575.2	77%
Renewals opex	\$96.2	\$411.8	\$771.9	\$87.2	\$1,367.1	23%

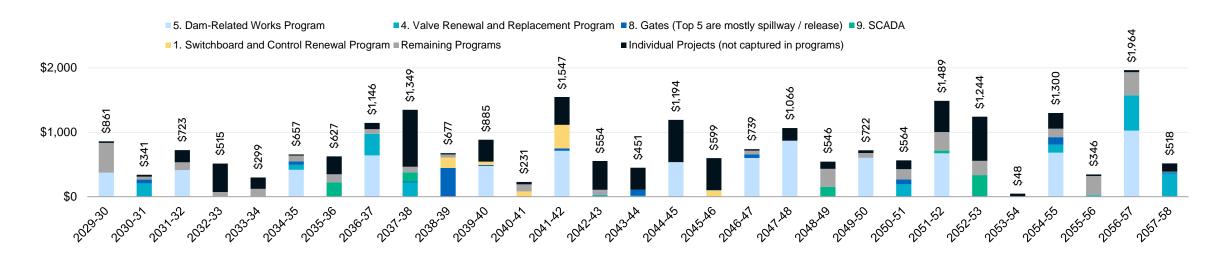
Our review process has lifted the 4-year forecast

\$1.7M to \$5.9M





Renewals expenditure - Forecast (rest of the annuity period - out to 2057-58)



Project name	Commencement year	Value	Percentage total
Testing of post tensioned anchors - Tinaroo Falls Dam	2025	\$4,630	20%
Study: Dam Safety Inspection - Tinaroo Dam	2025	\$1,925	8%
Refurbish Channel Bench Flume 0-320.04M - Tinaroo Dam - Irrigation Supply	2038	\$1,137	5%
Refurbish 1300Mm Cone Valve - Tinaroo Dam - Outlet Works	2037	\$887	4%
20 Year Dam Safety Review - Tinaroo Dam	2028	\$870	4%
Other	Varies	\$13,752	59%
Total		\$23,201	

Projects shown in this table may include multiple instances of a planned corrective maintenance activity due to occur at intervals throughout the 2029-30 to 2057-58 period

Our review process has lowered the aggregate forecast for the 2029-30 to 2057-58 period \$27.7M to \$23.2M (\$4.5M)



Sunwater's proposal for Mareeba Supply

Total 4-year scheme-level revenue requirement of \$11.2M

Prices that reflect a RAB methodology

Refreshed S&PPs

Forecast revenue requirement (inclusive of revenue adjustments) (\$'000s)

Numbers may not add due to rounding

Building block	2025-26	2026-27	2027-28	2028-29	Aggregate	Percentage
Price path related expenditure	е					
Opex	\$2,106.3	\$2,136.4	\$2,184.1	\$2,229.3	\$8,656.0	77.3%
Renewals opex	\$96.2	\$411.8	\$771.9	\$87.2	\$1,367.1	12.2%
Capital returns	\$179.8	\$379.8	\$456.0	\$524.2	\$1,539.8	13.7%
Tax allowance	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0%
Sub-total	\$2,382.3	\$2,928.0	\$3,412.0	\$2,840.6	\$11,562.9	103.2%
Revenue adjustments						
Revenue transfer	-\$179.3	-\$181.1	-\$185.2	-\$189.1	-\$734.6	-6.6%
Revenue offsets	-\$75.3	-\$77.4	-\$79.6	-\$81.6	-\$313.8	-2.8%
Insurance review	\$72.7	\$74.8	\$76.8	\$78.8	\$303.0	2.7%
QCA fee ¹	\$92.5	\$95.0	\$97.7	\$100.4	\$385.5	3.4%
Sub-total	-\$89.4	-\$88.7	-\$90.2	-\$91.5	-\$359.8	-3.2%
Total	\$2,292.9	\$2,839.3	\$3,321.8	\$2,749.1	\$11,203.0	100.0%

Note 1: The QCA fee is apportioned to each scheme on the basis of irrigation entitlements.



Mareeba-Dimbulah – River Tinaroo/Barron



2026-27

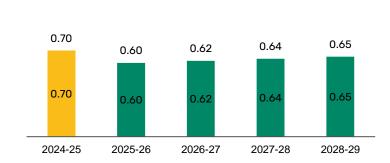
2027-28

2028-29

2025-26

2024-25





Part B (\$/ML)



Mareeba Distribution

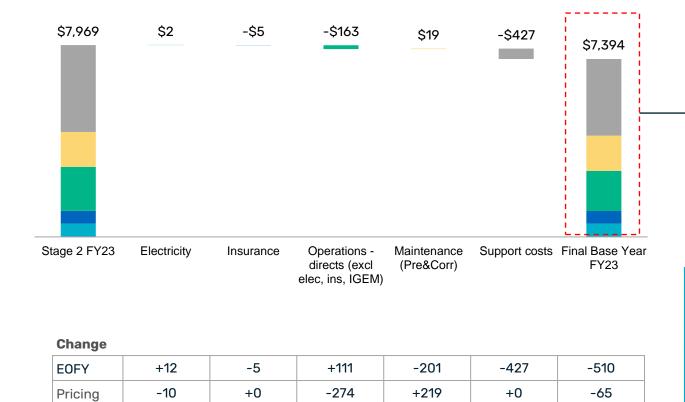
Opex base-year and how it changed from Stage 2

-427

-575

+19

Derivation of opex base year - from Stage 2 to Stage 3 engagement ('000s)



-163

These num	bers take	the ba	ase year	and add
inflation fo	recasts			

Cost categories	2025-26	2026-27	2027-28	2028-29
Insurance	\$719.6	\$736.7	\$753.2	\$768.3
Electricity	\$682.6	\$699.0	\$715.1	\$729.4
Ops & Maint	\$3,417.9	\$3,500.2	\$3,574.7	\$3,645.7
Support costs	\$3,481.4	\$3,566.0	\$3,641.3	\$3,713.7
Opex total	\$8,301.6	\$8,501.8	\$8,684.3	\$8,857.1

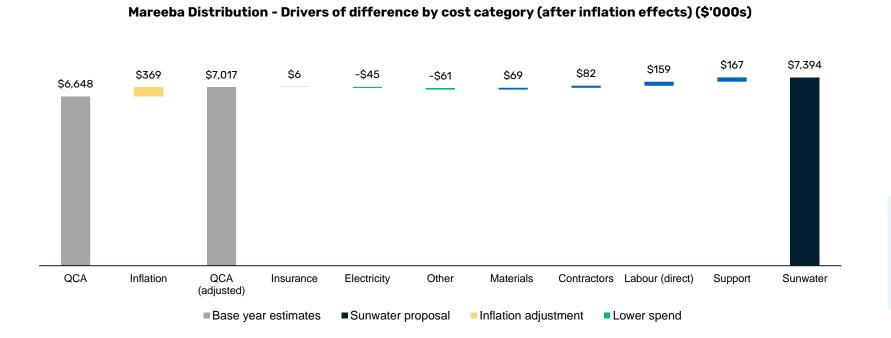


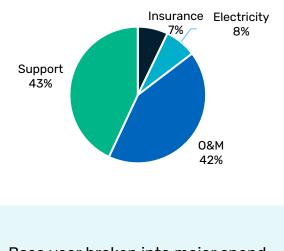
Total

+2

-5

Base year comparison with QCA





Base year broken into major spend categories



Renewals expenditure - Current pricing period

Current pricing period expenditure and renewals roll-forward (\$'000s)

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast		
				Curren	t price path p	eriod			
Opening balance		\$10,556.5	\$12,364.5	\$13,094.2	\$13,397.9	\$12,740.2	\$12,465.9		
Francisco di Arros		-\$991.6	-\$640.2	-\$1,178.3	-\$2,181.3	-\$1,818.8	-\$909.2		
Expenditure		Aggregate spend for roll-forward period =-\$7,719.4							
Insurance proceeds									
Annuity contribution		\$2,338.1	\$829.2	\$909.5	\$937.8	\$987.5	\$1,009.6		
Interest		\$461.6	\$540.6	\$572.5	\$585.8	\$557.0	\$545.0		
Closing balance ¹	\$10,556.5	\$12,364.5	\$13,094.2	\$13,397.9	\$12,740.2	\$12,465.9	\$13,111.3		

Note 1: Closing balance for 2018-19 was set by the QCA at the last pricing review. The calculated (forecast) 2024-25 value is used to set the opening balance of the regulated asset base for the price path period.

Significant projects (by value) delivered in this period (\$'000s)

Project name	Year	Value
Replace Reg Gate 26 West Barron Main Channel	2023	\$685.8
North Walsh Distribution - Pipeline Section Replacements	2020-23	\$610.9
Replace Customer Meters	2021-23	\$508.3

- Sunwater expects to have delivered \$7.7M in renewals activities for the 2019-20 to 2024-25 period.
- 2. The QCA allowance for the same period was \$5.4M.
- 3. Mareeba Distribution is forecast to have a positive annuity closing balance.
- 4. The opening RAB balance for the scheme has been set at \$0M.



Renewals expenditure - Forecast

Internal and external prudency and efficiency review

Recommended cost and timing adjustments



Identified new programs

Program	Adjustment to timing (years)	Percentage adjustment to costs
Switchboard and Control Renewal	1	13.8%
Meters	0	-1.3%
Instrumentation	0	-0.6%
Valve Renewal and Replacement	5	-7.3%
Dam-Related Works	0	-2.8%
Safety and Security Assets	0	-22.3%
Pump & Motor	0	-3.8%
Gates	6	-15.2%
SCADA	0	-38.0%
Pipeline Refurbishment / Replacement	15	-7.3%
Channel re-lining and re-shaping	0	2.0%
Civil and Roads (inlet / outlet towers)	1	-2.3%
Mechanical / Minor Works	0	0
Individual Projects	2	-6.1%



Renewals expenditure - Forecast

Internal and external prudency and efficiency review

Recommended cost and timing adjustments

Identified new programs



Most significant additions for your scheme shown on next slide



Program	Scope	Range	Recommended
Dam Instrumentation	 Inconsistencies / gaps in monitoring and management of safety instrumentation across dam sites A risk-based approach for the management and monitoring of instrumentation to provide early warning of the development of trends and behaviours Program of works covering the FY21 to FY28 period 	Low = \$8M High = \$35M	\$18M covering project definition, business case development for recommended site improvements, and construction activities associated with 10 most critical sites
Arc Flash	 Staff entering and operating facilities with switchboards are exposed to arcflash risks Possibility to cause serious long-term harm or death Review of all relevant Sunwater sites – identified 109 sites for investment to mitigate risk 	Low = \$4.3M High = \$50.5M	\$11M covering triage and installation of upstream protection devices and Arc Flash detection relays
Smart Meters	Improved ability to manage water, compliance and safety risks via deployment of smart meters	Low = \$2.1M High = \$8.4M	\$4.2M applying meters to gauging stations and 80% of volume in priority schemes
Dam Safety Management	 Risk management planning and ALARP activities require a range of activities including investigative studies – compliance driven 	Low = \$0M High = \$18.4M	\$8.3M covering required studies for priority dams considered to have a low likelihood of capital intervention



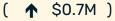
Renewals expenditure - Forecast (four years RAB-aligned)

Category	2025-26	2026-27	2027-28	2028-29	Aggregate	Percentage
11. Channel re-lining and re-shaping	\$155.2	\$174.9	\$1,754.3	\$169.1	\$2,253.5	29%
2. Meter Renewal Program	\$318.3	\$621.4	\$383.0	\$269.2	\$1,591.9	21%
17. Arc Flash Program	\$650.0	\$402.6	\$0.0	\$0.0	\$1,052.6	14%
12. Civil and Roads (inlet/outlet towers)	\$0.0	\$0.0	\$149.0	\$480.7	\$629.8	8%
15. Minor Works	\$166.7	\$26.2	\$98.7	\$3.5	\$295.3	4%
Remaining programs	\$222.5	\$29.8	\$95.2	\$248.6	\$596.1	8%
Sub-total – programs	\$1,512.8	\$1,255.0	\$2,480.3	\$1,171.1	\$6,419.1	84%
Projects not captured in programs	\$0.0	\$464.8	\$339.0	\$452.9	\$1,256.7	16%
Total	\$1,512.8	\$1,719.8	\$2,819.3	\$1,624.0	\$7,675.8	100%
Capex	\$1,240.3	\$1,062.3	\$383.0	\$614.2	\$3,299.8	43%
Renewals opex	\$272.5	\$657.5	\$2,436.3	\$1,009.8	\$4,376.1	57%

Our review process has lifted the 4-year forecast

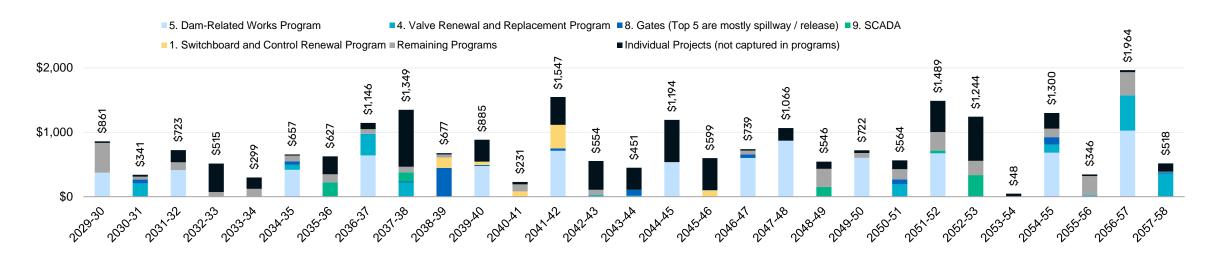
\$7M to \$7.7M







Renewals expenditure - Forecast (rest of the annuity period - out to 2057-58)



Project name	Commencement year	Value	Percentage total
Concrete Lining Refurbishment Works - Distribution Pipelines	2025	\$7,203	15%
Replace Switchboard - South Walsh Irrigation - South Walsh Relift	2057	\$2,194	5%
Bench Flume Joint Repairs - Mareeba System	2029	\$1,878	4%
Concrete Synthetic Lining Replacement - Mareeba System	2028	\$1,737	4%
Refurbish Roads - Mareeba Distribution	2028	\$1,406	3%
Other	Varies	\$33,357	70%
Total		\$47,776	

Projects shown in this table may include multiple instances of a planned corrective maintenance activity due to occur at intervals throughout the 2029-30 to 2057-58 period

Our review process has lowered the aggregate forecast for the 2029-30 to 2057-58 period \$56.3M to \$47.8M (\$8.5M)



Sunwater's proposal for Mareeba Distribution

Total 4-year scheme-level revenue requirement of \$22.9M

Prices that reflect a RAB methodology

Refreshed S&PPs

Forecast revenue requirement (inclusive of revenue adjustments) (\$'000s)

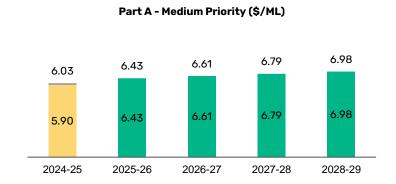
Numbers may not add due to rounding

Building block	2025-26	2026-27	2027-28	2028-29	Aggregate	Percentage	
Price path related expenditure							
Opex	\$8,301.6	\$8,501.8	\$8,684.3	\$8,857.1	\$34,344.8	93.0%	
Renewals opex	\$272.5	\$657.5	\$2,436.3	\$1,009.8	\$4,376.1	11.8%	
Capital returns	\$21.1	\$63.7	\$95.4	\$116.5	\$296.8	0.8%	
Tax allowance	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0%	
Sub-total	\$8,595.1	\$9,223.1	\$11,216.0	\$9,983.4	\$39,017.6	105.6%	
Revenue adjustments							
Revenue transfer	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0%	
Revenue offsets	-\$629.4	-\$647.4	-\$665.2	-\$681.8	-\$2,623.8	-7.1%	
Insurance review	\$130.3	\$134.1	\$137.7	\$141.2	\$543.3	1.5%	
QCA fee ¹	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	0.0%	
Sub-total	-\$499.0	-\$513.3	-\$527.4	-\$540.6	-\$2,080.4	-5.6%	
Total	\$8,096.1	\$8,709.7	\$10,688.6	\$9,442.8	\$36,937.2	100.0%	
Returned annuity balance	-\$3,375.6	-\$3,472.4	-\$3,567.9	-\$3,657.1	-\$14,073.0	-38.1%	
Total (net of returns)	\$4,720.5	\$5,237.3	\$7,120.7	\$5,785.7	\$22,864.2		

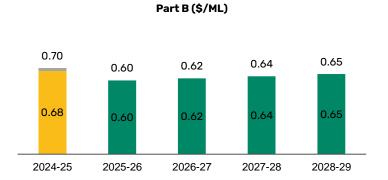
Note 1: The QCA fee is apportioned to each scheme on the basis of irrigation entitlements.



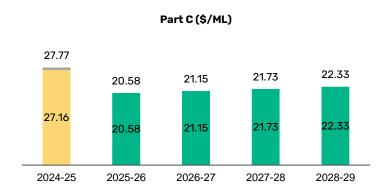
River Supplemented Streams and Walsh River **P0 Change** -6.5%



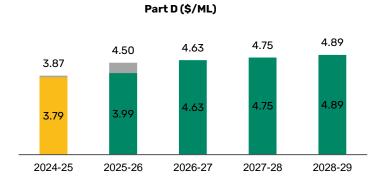
P0 Change -13.4%



P0 Change -10.3%



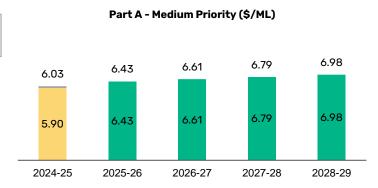
P0 Change -5.4%



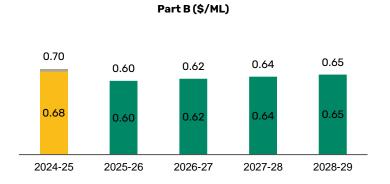


Mareeba-Dimbulah outside a relift up to 100ML

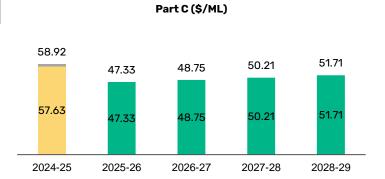




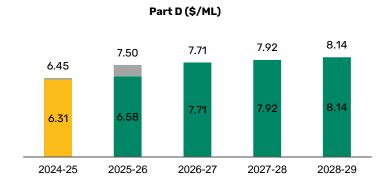








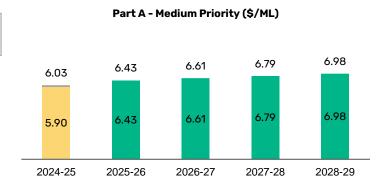
P0 Change -5.4%



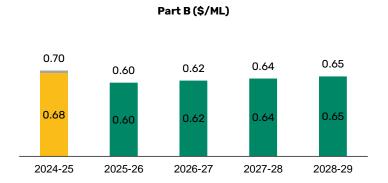


Mareeba-Dimbulah outside a relift 100ML to 500ML

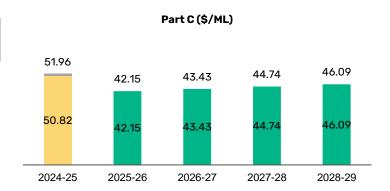




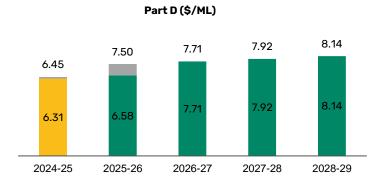








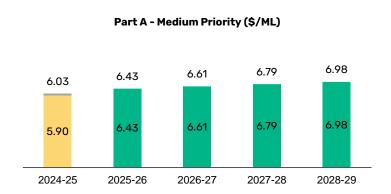




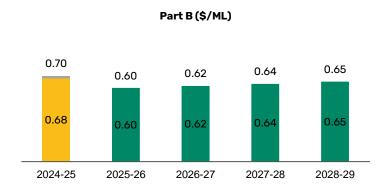


Mareeba-Dimbulah outside a relift over 500ML

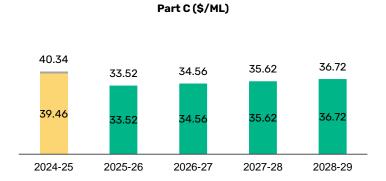




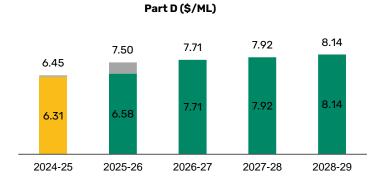
P0 Change -13.4%



P0 Change -11.0%



P0 Change -5.4%





Prices (under an electricity cost pass-through)

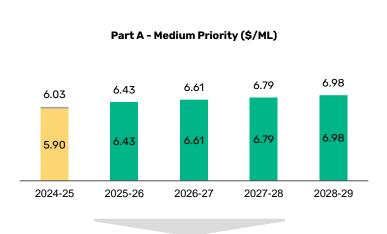
Mareeba-Dimbulah - Channel Relift **P0 Change** -6.5%

Prices inclusive of electricity

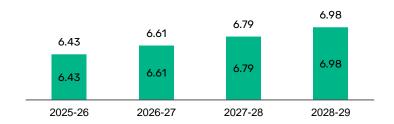
Part A and Part B cost reflective charges are unaffected by the pass-through proposal

Prices under pass-through

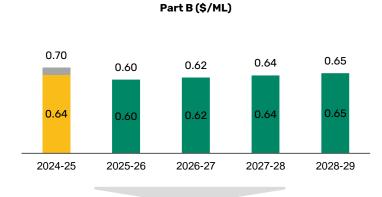
Recommended Part A and Part B charges are calculated as a bundle with Part C and Part D charges and may differ under a pass-through



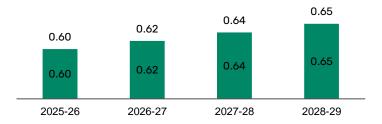








Part B (\$/ML)



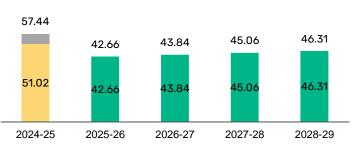


Prices (under an electricity cost pass-through)

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Mareeba-Dimbulah – Channel Relift **P0 Change** -9.0%

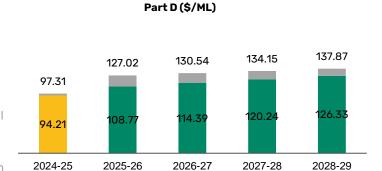
The Part C charge will be split into a Part C and a Part E charge under a pass-through



Part C (\$/ML)

P0 Change 3.6%

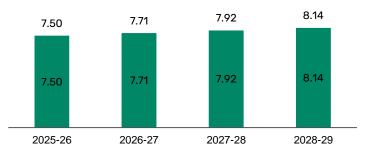
The Part D charge will be split into a Part D and a Part F charge under a pass-through



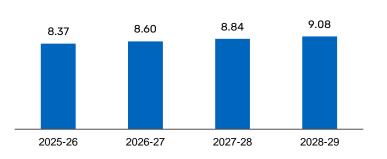




Part D (\$/ML)



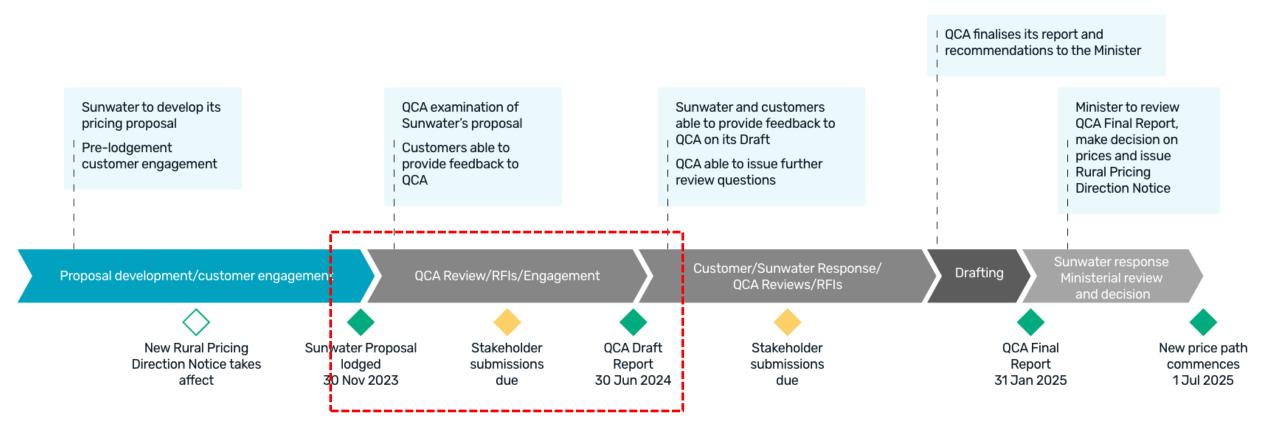
Part E (\$/ML) - Indicative only



Indicative only Part F (\$/ML) - Indicative only



Recap and next steps



You will also have the opportunity to provide comment / feedback to QCA



Delivering water for prosperity