

# always powering ahead

# Directlink

Stakeholder Meeting 3: Operating expenditure and other matters

8 November 2023



I'd like to begin by acknowledging the Traditional Owners of the land on which we all meet from today and pay my respects to Elders past, present and emerging.

# Welcome and purpose

Objective: To set the scene for the meeting.



# Agenda for today's meeting

Activity	Lead	Time
Welcome and purpose	Paul Alexander, General Manager Asset Management APA Group	10:00am – 10:05am
Circle back - Capital expenditure options for the 2025 to 2030 period	Annie Martyn, Asset Manager, APA Group	10.05am – 10.40am
Regulated asset base, depreciation and return on capital	Angelica Austin, Regulatory Specialist, APA Group	10.40am – 10.50am
Operating expenditure for the 2025 to 2030	Mark Allen, Senior Regulatory Manager, APA Group	10.50am – 11.35am
Capital Expenditure Sharing Scheme (CESS)	Mark Allen, Senior Regulatory Manager, APA Group	11.35am – 11.45am
Other topics - Cost pass through and pricing methodology	Mark Allen, Senior Regulatory Manager, APA Group	11.45am – 11.55am
Wrap up and thanks	Mark Allen, Senior Regulatory Manager, APA Group	11.55am – 12.00pm

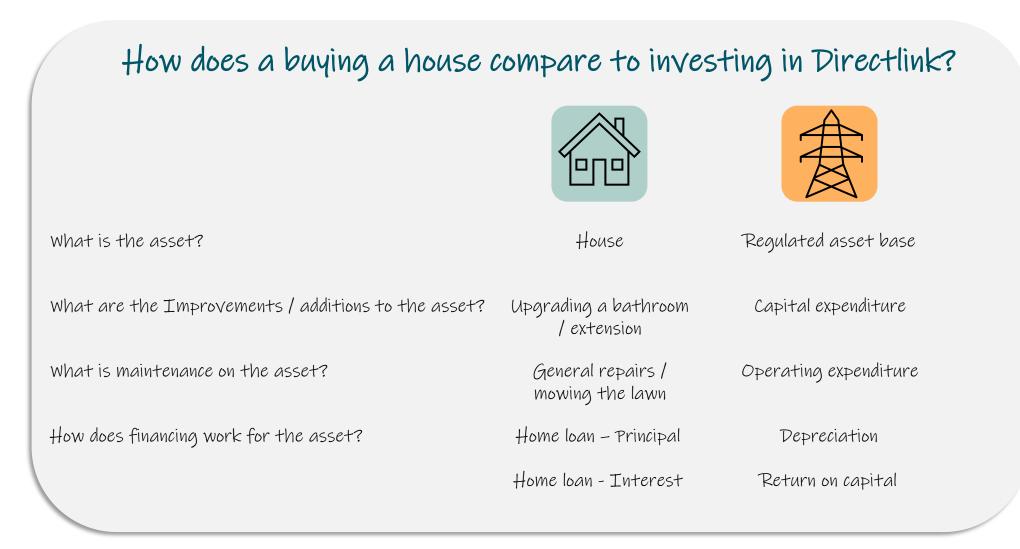


# Circle back - Capital expenditure options for the 2025 to 2030 period

Objective: To update stakeholders on progress and seek views on capital expenditure options for the 2025 to 2030 regulatory period

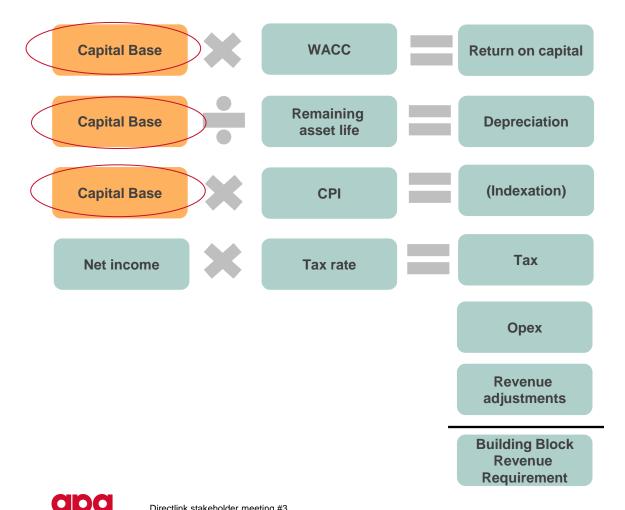


# But first, an analogy



# **Recap - Understanding the regulatory building blocks**

#### **Building block**

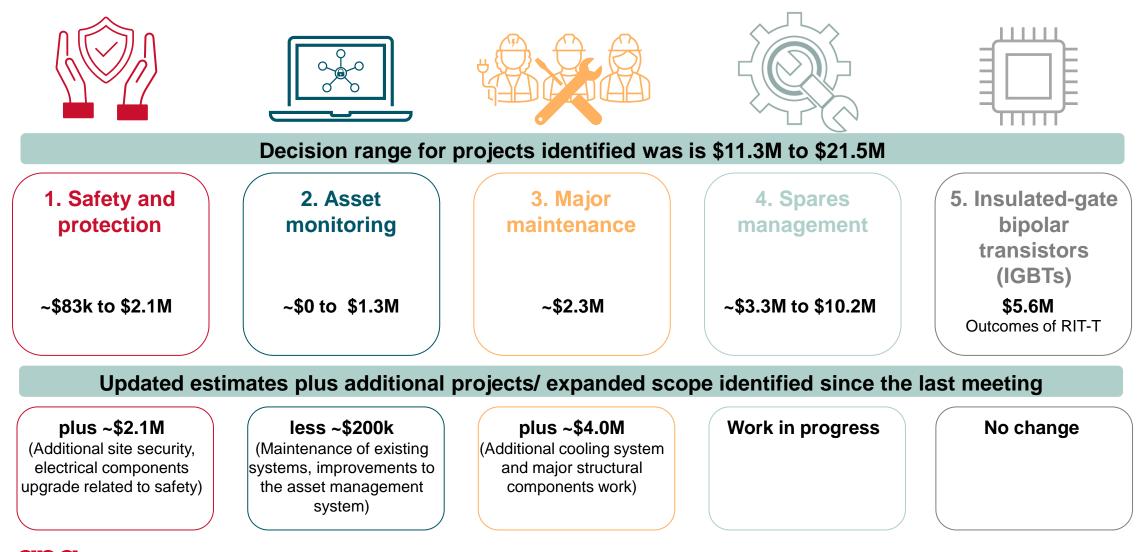


#### How capital expenditure affects revenue?

- Capital expenditure is money used to purchase, upgrade or extend the life of an asset
- They are long term investments meaning:
  - they have a life of more than one year; and
  - are paid for by customers over the life of an asset
- Capital expenditure is added to the existing capital base - otherwise known as the Regulated **Asset Base (RAB)**
- The RAB affects:
  - the return on capital
  - depreciation
  - indexation

# **Progress since our last meeting**

Capital expenditure overview 2025 - 30



# **1. Safety and protection**

Last meeting Safety and protection Site security improvement Landslip risk management ~\$83k to \$2.1M

twice if the landslip upgrades don't last the life of the asset?designed to cater for situat have historically occurred. There is always a risk that solution does not withstand unprecedented climate evenWould this upgrade and the prevention of future landslips saveThe opex for this is normal monitoring so there are no	rd
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· Additional site security for converter station





# 2. Asset Monitoring

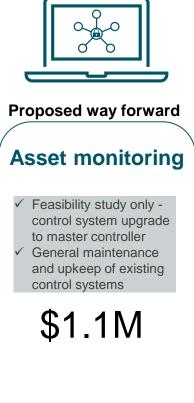
Last meeting

Asset monitoring

Control system upgrade to master controller



Questions from our last meeting	Our proposed way forward		
Will there be a performance change under a master controller? Does it need the approval of the AER and AEMO?	It is in the very early stages of being considered as an option. It would need AEMO's approval.		
<ul> <li>Would the upgrade mean that it would be monitored live, so issues could be addressed in real time?</li> <li>The master controller does not offer increased monitoring. It is expected to deliver reliability and efficiency improvements by transferring power through less systems.</li> <li>For example, if AEMO require 33% capacity, this is done through one system at full capacity and 2 are offline/.</li> </ul>			
<ul> <li>Additional projects</li> <li>Existing control, protection and telecoms equipment upgrade</li> <li>Includes fibre cables, RTUs interface to Essential Energy and AEMO</li> <li>Propose to conduct detailed engineering study by third party to assess OEM's proposal for master controller</li> </ul>			





# 3. Major maintenance



Last meeting

# 3. Major maintenance

Circuit breakers, fire system, cooling system and major structural component upgrades



APA have reached out to Essential Energy to discuss the more technical aspects in further detail. There is RTU/comms improvement scope included in asset monitoring. There is currently no proposed capital expenditure for underground AC cable as no faults have been observed in last 25 years of operation.
operation.



#### Proposed way forward

# 3. Major maintenance

✓ Circuit breakers
 ✓ Fire system
 ✓ Cooling system and
 ✓ Major structural components



Numbers may not add due to rounding

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# 4. Spares management



Question	Response
Do consumers today want to pay for the benefit of consumers later on?	We will be discussing principles for spare management in the next slide to explore this question further.
Is there was another market that left over spares could be sold to?	There is unlikely to be any use for left over spares, other than scrapping value.



#### Proposed way forward

# 4. Spares management

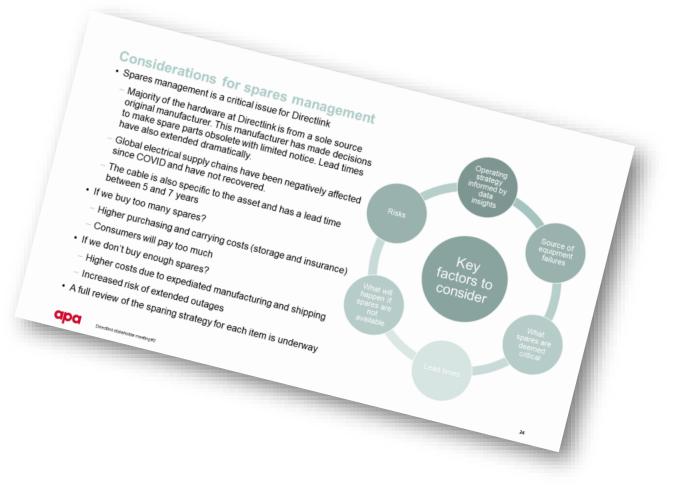
✓ Work in progress



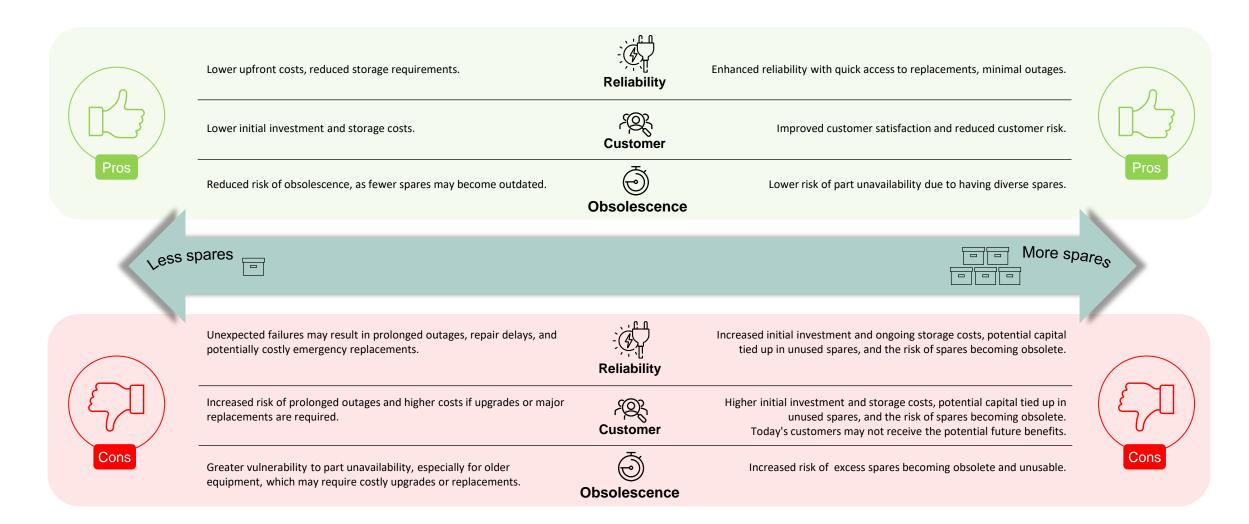


## **Spares strategy – preferences**

- Our approach to spares management needs careful consideration given it is a critical issues and risk for the next regulatory period and beyond
- As a result, work on the spares strategy will continue through to the AER's Draft Determination
- Balancing all of the risks involves conducting risk assessments, considering the age and type of equipment, industry standards and regulations, and customer expectations

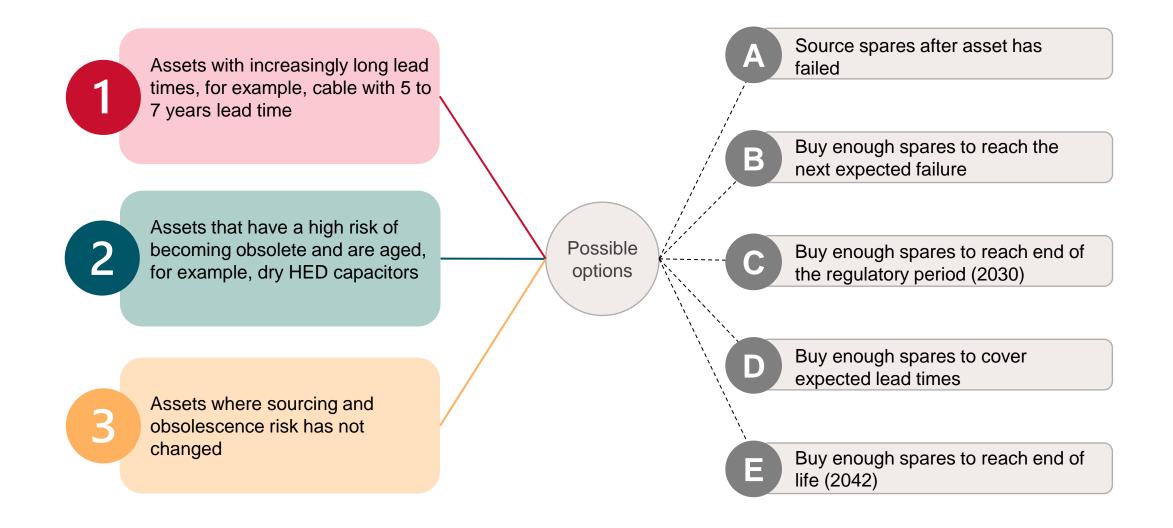


# **Spares strategy – preferences**



Directlink stakeholder meeting #3

# **Spares strategy options for feedback**



Directlink stakeholder meeting #3

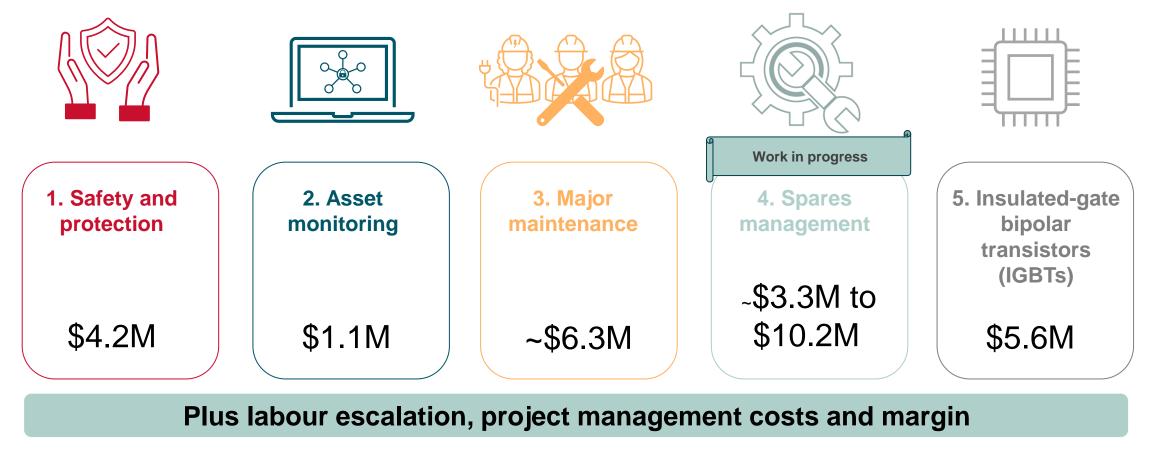
## 5. Insulated-gate bipolar transistors (IGBTs)





# **Proposed way forward**

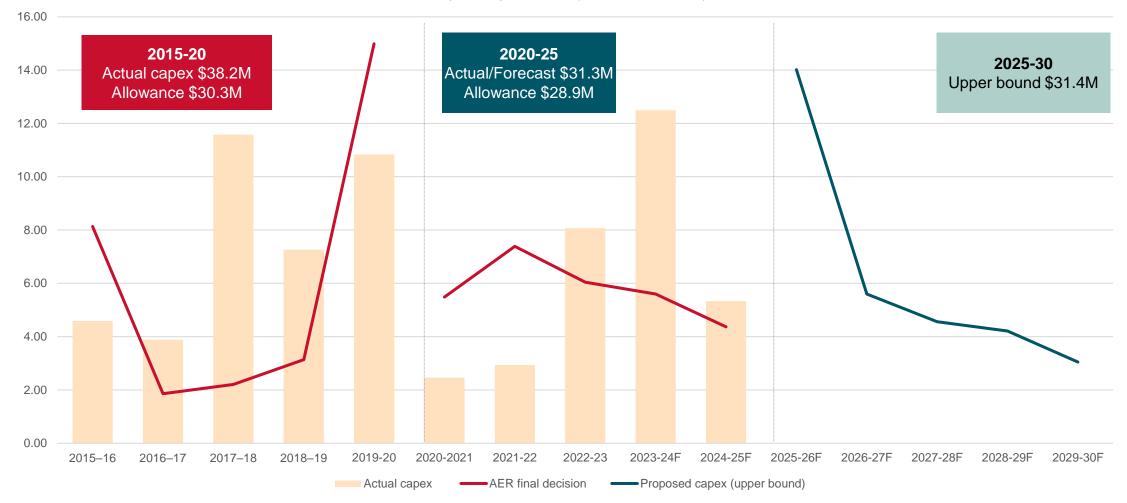
Capital expenditure overview 2025 - 30





# **Directlink's capital expenditure – draft forecast**

Capital expenditure (\$2024-25, million)

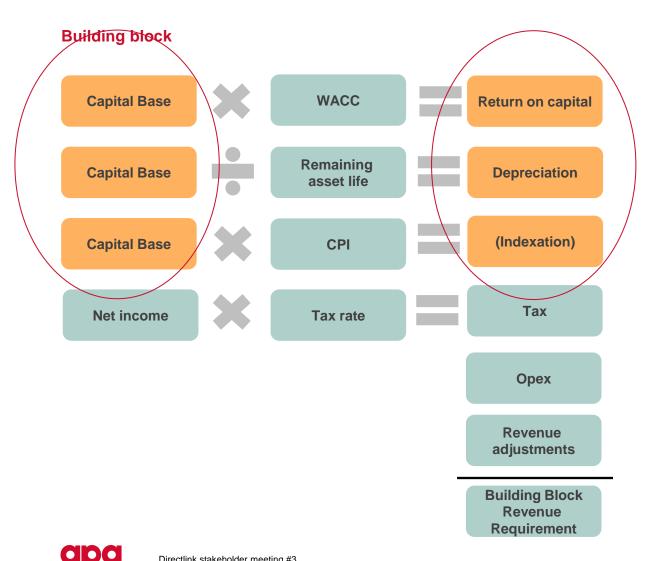




# Regulated asset base, depreciation and return on capital

Objective: To inform stakeholders on the regulated asset base, depreciation and return on capital for the 2025 to 2030 regulatory period

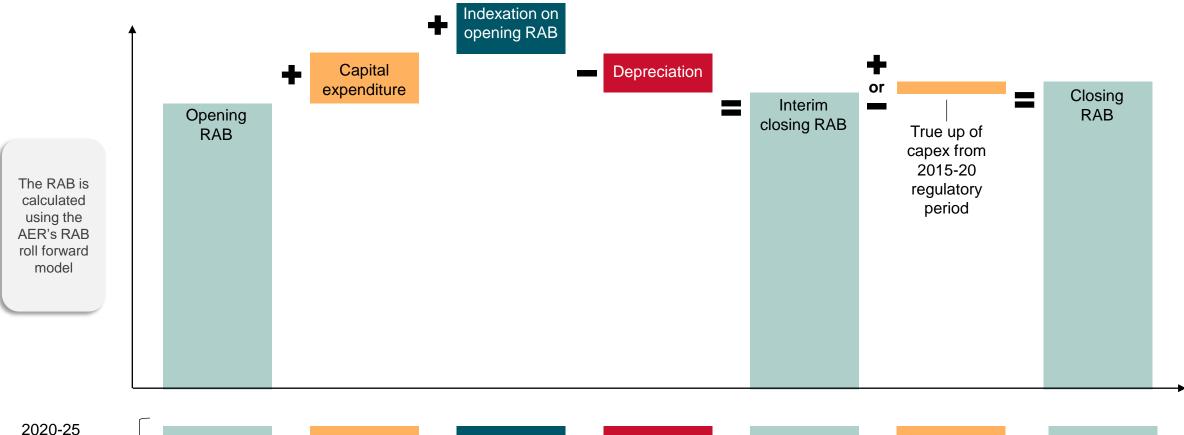
## Understanding the regulatory building blocks



How the regulated asset base, depreciation and return on capital affect revenue?

- Capital expenditure is added to the existing capital base - otherwise known as the Regulated Asset Base (RAB)
- The RAB substantially impacts revenue because it is a key input into the calculation of:
  - the return on capital
  - depreciation
  - indexation
- Increases in the RAB generally means that both the return on capital and depreciation will also increase

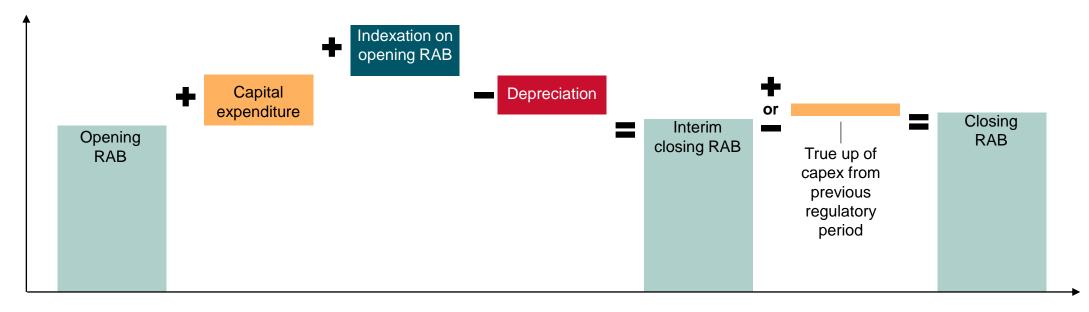
# How is the regulated asset base (RAB) calculated?







# Indicative RAB for 2025-2030







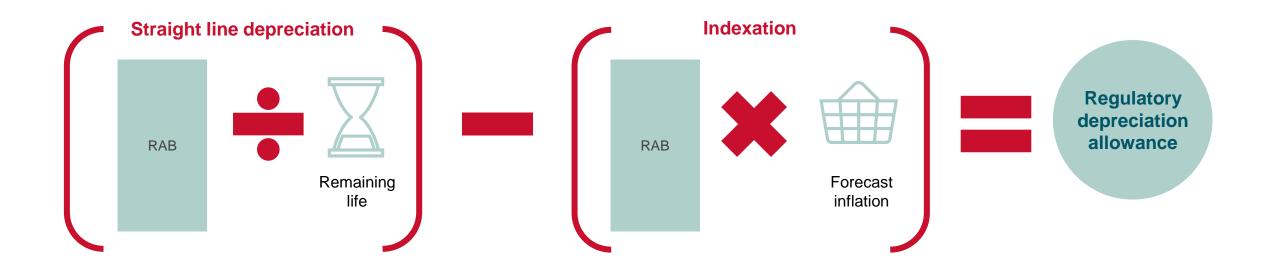
# **Depreciation and indexation**

#### What is depreciation?

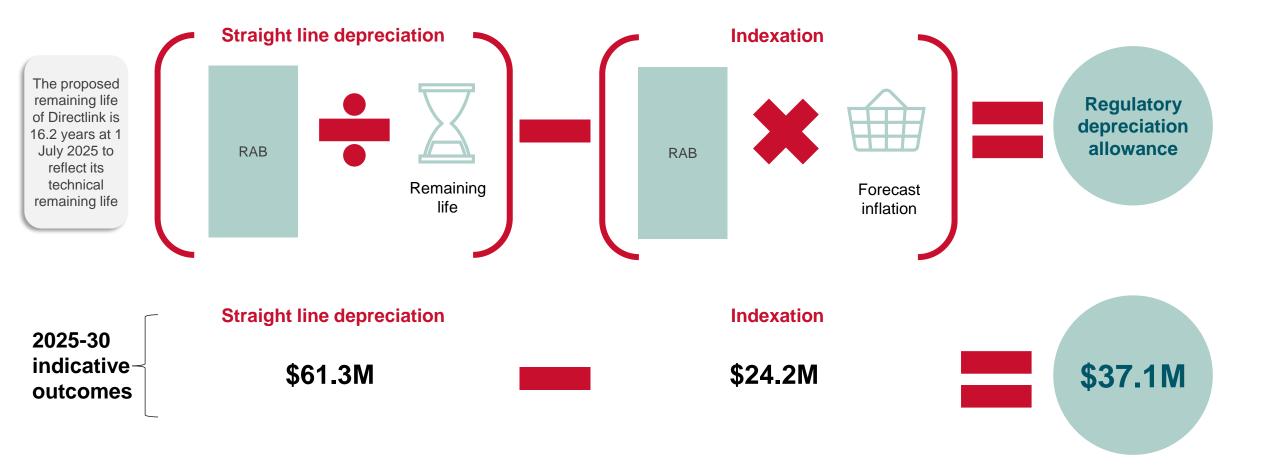
Depreciation is an allowance that allows capital investors to recoup their investment over the life of an asset – just like principal being paid back on a home loan.

#### How is depreciation calculated?

The AER's Post Tax Revenue Model is used to calculate the depreciation allowance. The formula below is calculated for each financial year



# **Indicative depreciation for 2025-2030**





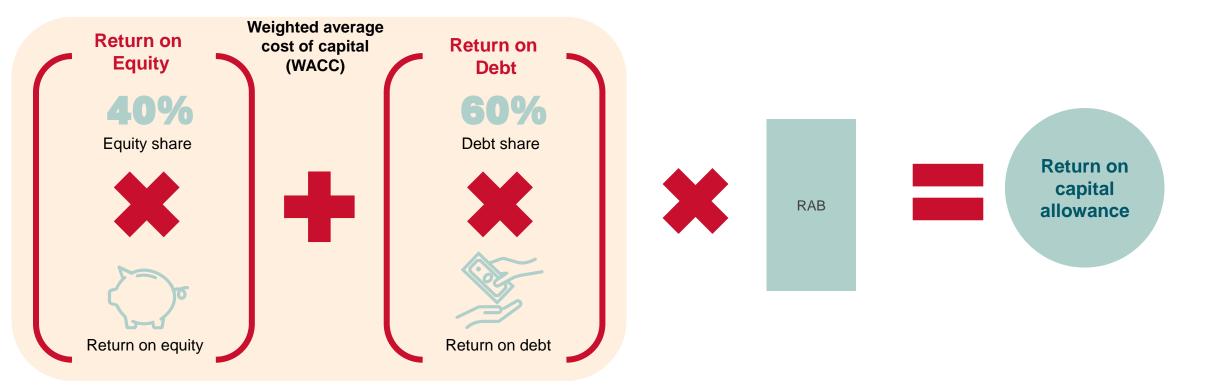
## **Return on capital**

#### What is Return on Capital?

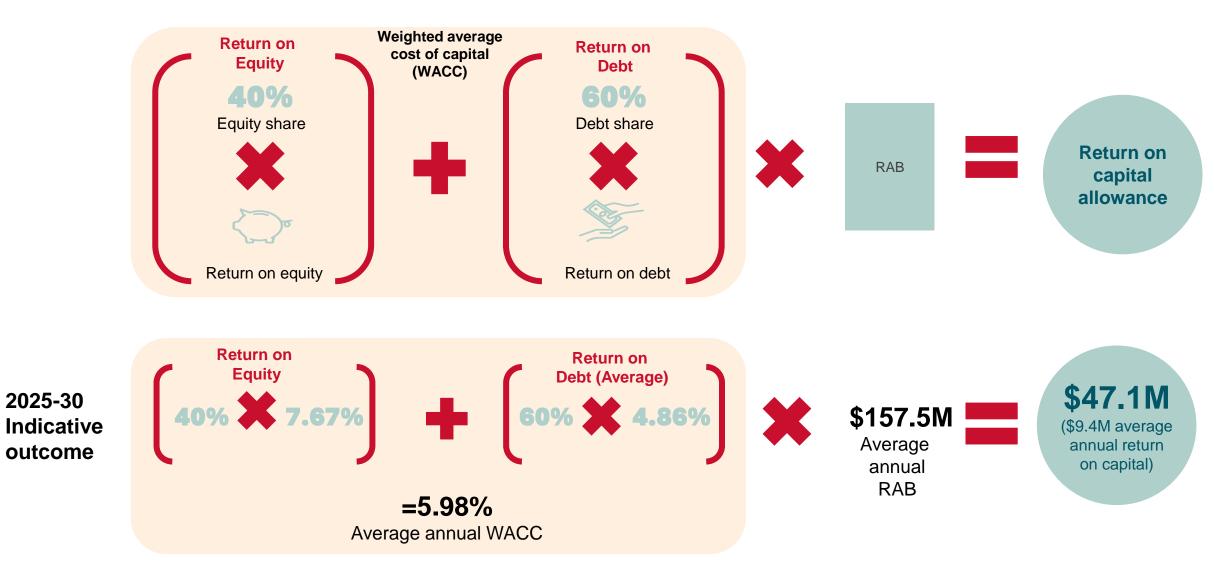
Return on capital is an allowance that allows businesses to receive a return on its Regulated Asset Base. The return on capital is usually a key driver of revenues.

#### How is Return on Capital calculated?

The AER's Post Tax Revenue Model and the Rate of Return Guideline is used to calculate the return on capital. The formula below is calculated for each financial year.



# Indicative Return on capital for 2025-2030

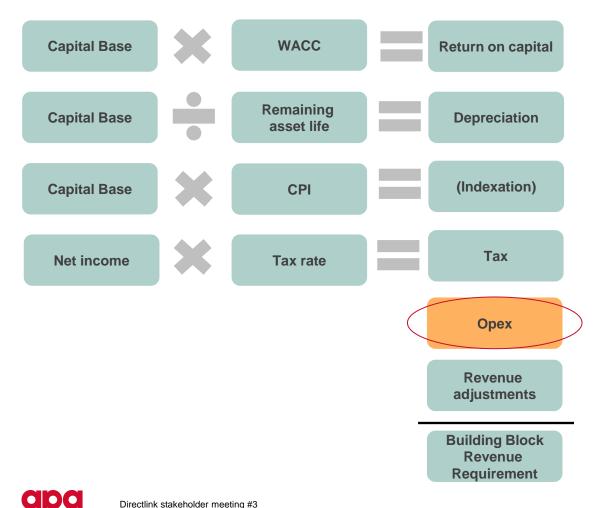


# Operating expenditure for the 2025 to 2030 period

**Objective: To seek stakeholder views on operating expenditure for the 2025 to 2030 regulatory period** 

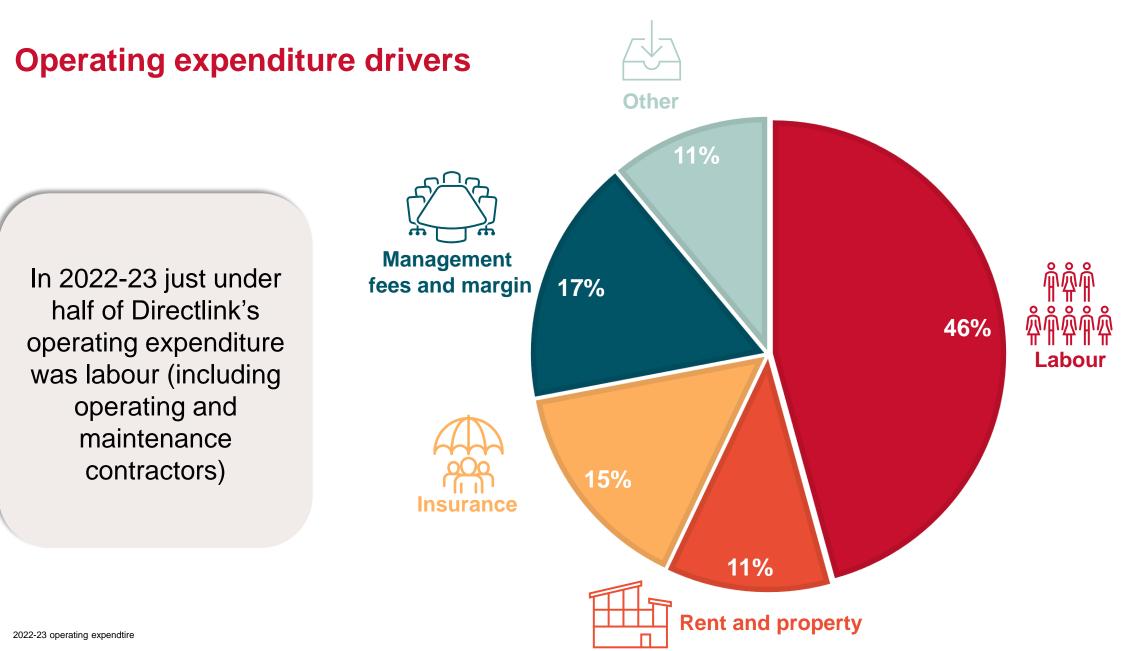
# Understanding the regulatory building blocks

#### **Building block**



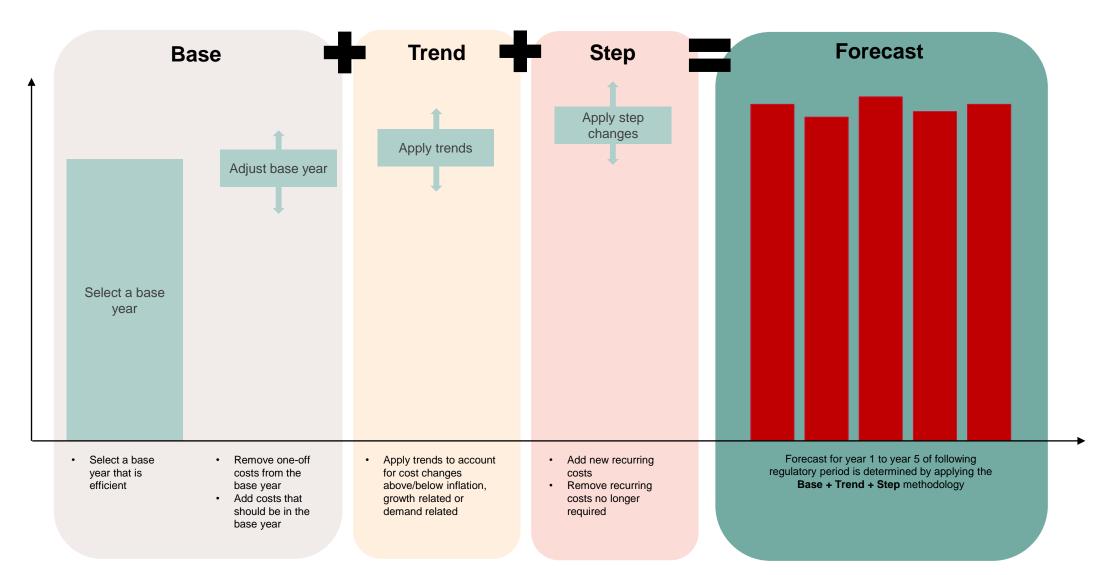
#### How operating expenditure affects revenue?

- · Operating expenditure is money used to run the asset on a day-to-day basis
  - It is paid for by customers in the year it is spent
  - It doesn't include long term investments
- Operating expenditure is added directly to the building blocks, so \$1 of operating expenditure translates to \$1 of revenue



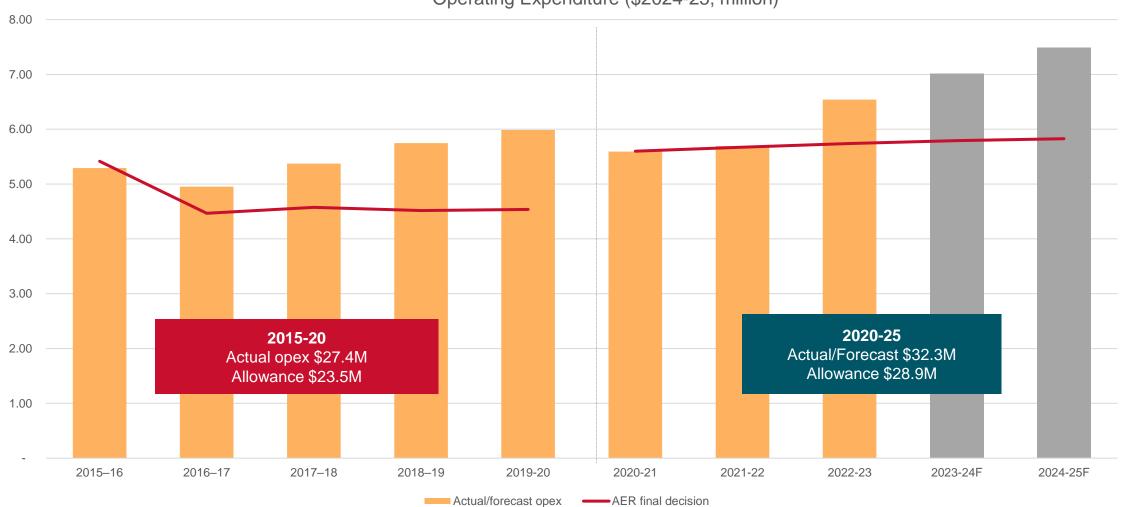
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### **Base Trend Step methodology – how does it work?**





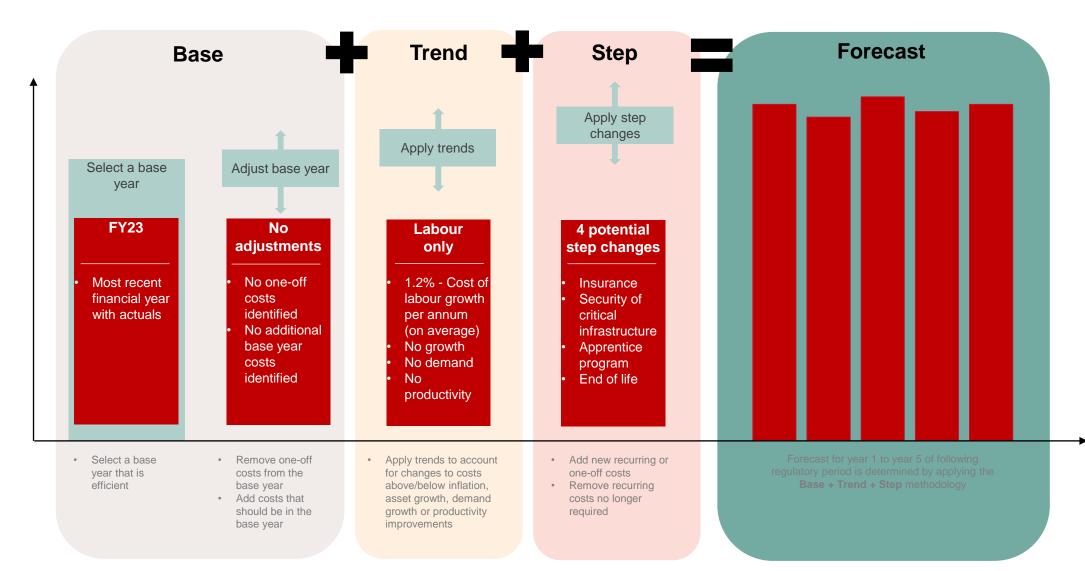
# **Directlink's previous operating expenditure**



Operating Expenditure (\$2024-25, million)



## **Base Trend Step application to Directlink**





# **Potential step changes (1)**

#### Insurance

Insurance for Directlink is forecast to increase progressively over the 2025-30 regulatory period.

These increases are being driven by tightening market conditions and responses to the increasing frequency and severity of extreme weather events.

Insurance costs are currently \$865k (FY23).

Additional insurance costs compared to FY23 base year (indicative)

FY26	FY27	FY28	FY29	FY30
\$150k	\$188k	\$210k	\$223k	\$207k

All figures presented in 2024-25\$



#### Security of Critical Infrastructure (SoCI)

The provisions of the Commonwealth Security of Critical Infrastructure (SoCI) Act will apply to APA and its subsidiary businesses, along with other energy networks. SOCI compliance costs, over and above business as usual costs, include:

- Cyber security
- Technology line security governance
- Program management and material risk •
- Enterprise security governance
- Personnel security
- Supply chain security

Additional SOCI costs compared to FY23 base year (indicative)

FY26	FY27	FY28	FY29	FY30
\$382k	\$543k	\$234k	\$234k	\$234k



## **Potential step changes (2)**

#### End of life program

Directlink will reach the end of its economic life and be fully depreciated in 2041/42. It will also reach the end of its technical life, with key technology likely to be obsolete or sub-optimal by approximately 2042.

An annual amount is proposed to be set aside to cover the cost of restoration and rectification works at the end of the life of Directlink.

The amount to be set aside each year will be less than the amount that will be required to be charged to customers in 2041/42.

New end of life costs compared to FY23 base year (indicative)

FY26	FY27	FY28	FY29	FY30
\$750k	\$750k	\$750k	\$750k	\$750k



#### Labour resilience

The energy transition will create competition for limited resources which may lead to labour and skills shortages into the future.

To help protect against the risk of labour and skills shortages, we are exploring whether:

- APA's apprenticeship program should be extended to Directlink,
- additional skilled labour should be employed, or
- other workforce strategies should be deployed.

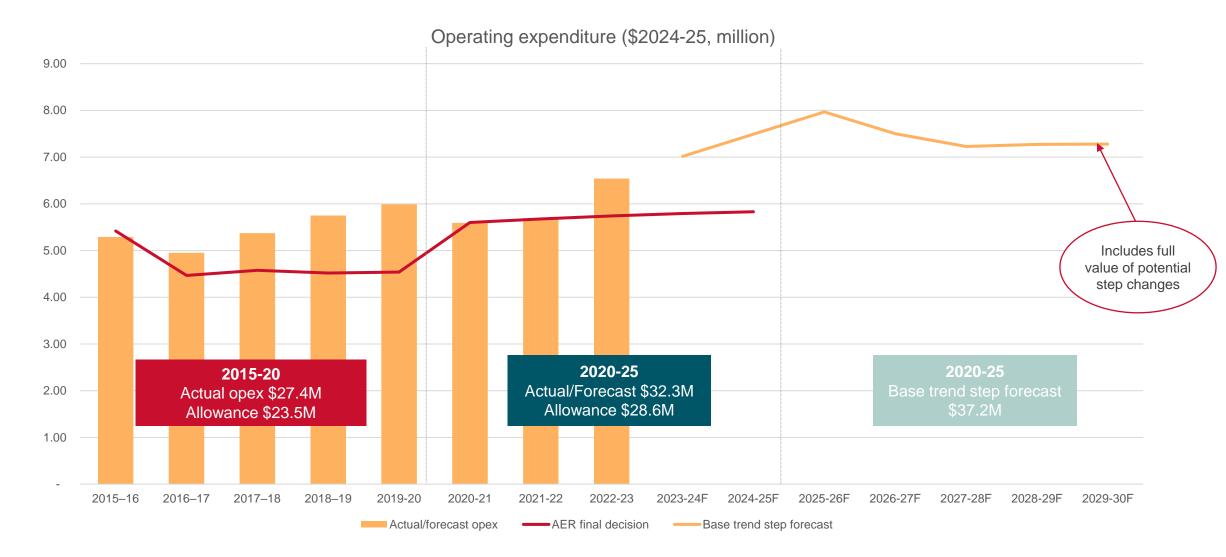
Additional labour resilience costs compared to FY23 base year (indicative)

FY26	FY27	FY28	FY29	FY30
\$300k	\$300k	\$300k	\$300k	\$300k

All figures presented in 2024-25\$



# **Directlink's Operating expenditure – draft forecast**





# **Capital Expenditure Sharing Scheme**

Objective: To seek stakeholder views on the capital expenditure sharing scheme for the 2025 to 2030 regulatory period



# What is the Capital Expenditure Sharing Scheme (CESS)?



The CESS provides financial rewards for network service providers whose capital expenditure becomes more efficient and financial penalties for those that become less efficient.

Consumers benefit from improved efficiency through lower regulated prices.





# **IGBT replacement - implications for CESS**

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- Directlink forecast a long term IGBT replacement contract with Hitachi as part of it forecast capital expenditure for the 2020-25 period
- The possibility of a contract was discussed with Hitachi prior to submission of the 202-25 regulatory proposal
- The forecast for a contract to the end of Directlink's regulatory life was \$3.3M per annum for 10 years and then \$1.7M per annum until 2024
- When it came to negotiating the actual project, Hitachi refused to negotiate on that basis and insisted on an asset replacement contract
- **ISSUE** This has resulted in IGBT capex being much higher than forecast, leading to additional CESS penalty

	Option 1 Separately assess the IGBT replacement project	<b>Option 2</b> Continue the CESS across multiple revenue periods
What is the principle that holds true?	"The revised project is prudent because of Hitachi's actions"	"The original proposal was prudent and should be reflected across multiple periods"
What method is used to assess CESS penalty reward arising from 2020-25?	<ul> <li>Remove IGBT costs from both actual and allowance</li> <li>Assess the prudency and efficiency of the IGBT replacement project underway</li> </ul>	Assess actual capex against allowance without change
How will it be treated in 2025-30 and beyond?	Base the allowance on the forecast spend and assess the future actual spend against this allowance	• Base the allowance on the forecast spend, including the forecast IGBT contract cost, and assess the future actual spend against this allowance
CESS outcomes for IGBTs	No penalty or reward	Penalty for 2020-25 Rewards from 2025-30 to 2042



# Other topics - Cost pass through and pricing methodology

Objective: To seek stakeholder views on nominating cost pass troughs and the pricing methodology for the 2025 to 2030 regulatory period



## What is a cost pass through?

During a regulatory period, circumstances can change that might affect the amount of revenue a network service provider requires to operate.

The Rules provides a mechanism to ensure substantial cost increases or reductions resulting from material unforeseen events can be reflected in the revenue requirement.

#### **Prescribed events**



Regulatory change event



Service standard event



Tax change event



Insurance event



Intertia shortfall event



Any another event specified in a determination, referred to as nominated events

## What are we proposing?

Nominated events approved for 2020-25





Any another event specified in a determination, referred to as nominated events





Insurer's credit risk event



**Terrorism event** 



Insurance coverage event



Natural disaster event



# **Pricing methodology**

Directlink does not establish tariffs for the provision of its service The annual revenue requirement set in accordance with the AER's determination is billed to Transgrid in 12 monthly instalments

# No changes to the pricing methodology are proposed for the 2025-30 period

Transgrid

Transgrid is the appointed coordinating Network Service Provider for the NSW and ACT.

As the coordinator, TransGrid applies **its pricing methodology** to determine the transmission prices to be charged in the NSW region to recover the regulated transmission revenues of Ausgrid, ActewAGL, Directlink and itself in line with the National Electricity Rules



Directlink revenue represents ~0.05% of NSW customers' total electricity bills.

2023-24 maximum allowed revenue for Transgrid is \$924M 2023-24 Maximum allowed revenue for Directlink is \$16M (1.7%)



# Wrap up and next steps

**Objective: To thank participants and explain next steps.** 



## **Next steps**

- Stakeholder group to:
  - Complete evaluation survey for today's meeting
  - Advise on areas of interest for the next meeting, which will provide a full overview of the Directlink revenue proposal, on Monday 4 December, 1:30pm – 3:00pm

#### • APA to:

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- Confirm agenda for the next meeting
- Send out meeting papers for the next meeting in late November



# Questions







# Thank you

