ACT Government
Chief Minister, Treasury and Economic Development

Freedom of Information Disclosure Log Publication Coversheet

The following information is provided pursuant to section 28 of the *Freedom of Information Act 2016*.

Application Details	
Ref. No.	CMTEDDFOI 2024-115
Date of Application	28 March 2024
Date of Decision	5 June 2024
Processing time (in working days)	45
Fees	Waived
Decision on Access	Partial Release
Information Requested (summary)	Briefings to the Chief Minister or Minister for Emissions Reduction regarding the big Canberra Battery since 1 January 2020.

Publication Details		
Original application	☑ Published	☐ N/A
Decision notice	☑ Published	☐ N/A
Documents and schedule	☑ Published	☐ N/A
Decision made by Ombudsman	N/A	
Additional information identified by Ombudsman	N/A	
Decision made by ACAT	N/A	
Additional information identified by ACAT	N/A	

From: [redacted]
To: CMTEDD FOI
Subject: FOI request regarding Big Canberra Battery
Date: Thursday, 28 March 2024 8:19:31 AM

Good morning CMTEDD FOI team,

On behalf of [redacted] I write to request a separate request, under the *Freedom of Information Act 2016*, copies of the following documents:

1. A copy of all briefings (including Question Time, Annual Reports and Budget estimates and any other briefing material) to the Chief Minister or Minister for Emissions Reduction regarding the Big Canberra Battery since 1/1/2020, including attachments to the briefs.

Thanks,

[redacted]

ACT Government
Chief Minister, Treasury and Economic Development

Our ref: CMTEDDFOI 2024-115

[redacted]

FREEDOM OF INFORMATION REQUEST – NOTICE OF DECISION

I refer to your application under section 30 of the *Freedom of Information Act 2016* (the Act), received by the Chief Minister, Treasury and Economic Development Directorate (CMTEDD) on **28 March 2024**.

Specifically, you have sought access to the following information:

> *A copy of all briefings (including Question Time, Annual Reports and Budget estimates and any other briefing material) to the Chief Minister or Minister for Emissions Reduction regarding the Big Canberra Battery since 1/1/2020, including attachments to the briefs.*

Authority

I am an Information Officer appointed by the CMTEDD Director-General under section 18 of the Act to deal with access applications made under Part 5 of the Act.

Timeframes

In accordance with section 40 of the Act, CMTEDD is required to provide a decision on your access application within 30 days.

As this matter required third party consultation, the decision due date was extended by 15 working days, in accordance with section 40(2) of the Act.

Therefore, a decision is due by **5 June 2024.**

Decision on access

Searches of CMTEDD records have identified 66 documents within the scope of your request.

I have decided to grant full access to 31 documents. I have decided to grant partial access to seven documents. I have found 28 documents to be exempt.

The records identified as relevant to your application are listed in the schedule enclosed at **Attachment A**. This provides a description of each document that falls within the scope of your request and the access decision for each of those documents.

Please note, that many of the documents marked as full access contain redactions. This is due to information contained being out of scope. According to the Ombudsman (2020)

Dealing with Access Applications, if only out of scope information has been removed from relevant records, and all information considered in scope of the access application has been disclosed, it is considered a full access decision.

Release of documents

The information being released to you is provided at **Attachment B**.

Statement of Reasons

In accordance with section 54(2) of the Act a statement of reasons outlining my decisions is below. In reaching my access decisions, I have taken the following into account:

- the Act
- the information that falls within the scope of your request
- third party views.

As a decision maker, I am required to determine whether the information within scope is in the public interest to release. To make this decision, I am required to:

- assess whether the information would be contrary to public interest to disclose as per **Schedule 1** of the Act.
- perform the public interest test as set out in section 17 of the Act by balancing the factors favouring disclosure and factors favouring non-disclosure in **Schedule 2** of the Act.

Exemptions claimed

Schedule 1: Information taken to be contrary to the public interest.

My reasons for deciding not to grant access to the identified documents and components of these documents are as follows:

- *Section 1.6 - Cabinet Information.*

The documents listed as exempt on **Attachment A**, contain information that has been submitted, or a Minister proposes to submit, to Cabinet for its consideration and that was brought into existence for that purpose.

Under the Act schedule 1, Section 1.6 Cabinet information is:

(1) Information

(a) that has been submitted, or that a Minister proposes to submit, to Cabinet for its c onsideration and that was brought into existence for that purpose; or

(b) that is an official record of Cabinet; or

(c) that is a copy of, or part of, or contains an extract from, information mentioned in p aragraph (a) or (b); or

(d) the disclosure of which would reveal any deliberation of Cabinet (other than through the official publication of a Cabinet decision).

The purpose of this exemption is to maintain confidentiality of the Cabinet process and to uphold the principle of collective ministerial responsibility. This exemption was discussed in the Commonwealth v Northern Land Council [1993] HCA 24; (1993) 176 CLR 604 (21 April 1993). Paragraph 6 of the decision, states that:

> …it has never been doubted that it is in the public interest that the deliberations of Cabinet should remain confidential in order that the members of Cabinet may exchange differing views and at the same time maintain the principle of collective responsibility for any decision which may be made.

Public Interest Test

The Act has a presumption in favour of disclosure. As a decision maker I am required to decide where, on balance, public interests lies. As part of this process I must consider factors favouring disclosure and nondisclosure.

In *Hogan v Hinch* (2011) 243 CLR 506, [31] French CJ stated that when 'used in a statute, the term [public interest] derives its content from "the subject matter and the scope and purpose" of the enactment in which it appears'. Section 17(1) of the Act sets out the test, to be applied to determine whether disclosure of information would be contrary to the public interest. These factors are found in subsection 17(2) and Schedule 2 of the Act.

Schedule 2: Factors to be considered when deciding the public interest.

Taking into consideration the information contained in the documents found to be within the scope of your request, I have identified that the following public interest factors are relevant to determine if release of the information contained within these documents is within the 'public interest'.

Factors favouring disclosure (Section 2.1)

- *Section 2.1(a)(i) - promote open discussion of public affairs and enhance the government's accountability.*
- *Section 2.1(a)(ii) - contribute to positive and informed debate on important issues or matters of public interest.*
- *Section 2.1(a)(iv) - ensure effective oversight of expenditure of public funds.*

The release of this information can reasonably be expected to promote open discussion regarding renewable energy security in the Territory. The release of this information can also reasonably be expected to contribute to informed debate on a matter that is often in the media – the Territory's action on Climate change and the renewable energy section.

I am reasonably confident release of this information will inform the public regarding expenditure of public funds on the Big Canberra Battery project.

I am satisfied that these factors favouring disclosure carry some weight. However, these factors are to be balanced against the factors favouring nondisclosure.

Factors favouring nondisclosure (Section 2.2)

- *Section 2.2(a)(ii) - prejudice the protection of an individual's right to privacy or any other right under the Human Rights Act 2004.*
- *Section 2.2(a)(xiii) - prejudice the competitive commercial activities of an agency.*

Having reviewed the documents, I consider the protection of an individual's right to privacy is a significant factor. I have decided that their right to privacy in relation to their personal information has a higher weighting not to disclose, than the public interest has in disclosing this information. I am of the view that disclosure of another constituent's name and contact information could prejudice that individual's right to privacy. The direct

mobile number of Territory staff, where mobile phone numbers may be used for home and work purposes, this information has been redacted, as release could or would also be reasonably be expected to prejudice their right to privacy under the *Human Rights Act 2004*.

I have also found that it is reasonable to consider that some information could reasonably be used to prejudice the competitive commercial activities of an agency. When the ACT competes for commercial opportunities, it is sometimes necessary that this information is not revealed so that the agency can complete its function without commercial prejudice. I have applied some weight to this factor.

Having applied the test outlined in section 17 of the Act and deciding that release of information contained in the documents is not in the public interest to release, I have chosen to redact this specific information in accordance with section 50(2). Noting the pro-disclosure intent of the Act, I am satisfied that redacting only the information that I believe is not in the public interest to release will ensure that the intent of the Act is met and will provide you with access to the majority of the information held by CMTEDD within the scope of your request.

Charges

Under section 107(2)(e) of the Act, fees must be waived if the applicant is a member of the Legislative Assembly.

Online publishing – Disclosure Log

Under section 28 of the Act, CMTEDD maintains an online record of access applications called a disclosure log.

Your original access application and my decision will be published on the CMTEDD disclosure log. Your personal contact details will not be published.

Ombudsman Review

My decision on your access request is a reviewable decision as identified in Schedule 3 of the Act. You have the right to seek Ombudsman review of this outcome under section 73 of the Act within 20 working days from the day that my decision is provided to you, or a longer period allowed by the Ombudsman.

We recommend using this form *Applying for an Ombudsman Review* to ensure you provide all of the required information. Alternatively, you may write to the Ombudsman at:

The ACT Ombudsman
GPO Box 442
CANBERRA ACT 2601

Via email: actfoi@ombudsman.gov.au

ACT Civil and Administrative Tribunal (ACAT) Review

Under section 84 of the Act, if a decision is made under section 82(1) on an Ombudsman review, you may apply to the ACAT for review of the Ombudsman decision. Further information may be obtained from the ACAT at:

ACT Civil and Administrative Tribunal
GPO Box 370
Canberra City ACT 2601
Telephone: (02) 6207 1740

http://www.acat.act.gov.au/

Should you have any queries in relation to your request please contact the Information Access Team by telephone on 6207 7754 or email CMTEDDFOI@act.gov.au.

Yours sincerely

Katharine Stuart
Information Officer
Chief Minister, Treasury and Economic Development Directorate
5 June 2024

ACT Government
Chief Minister, Treasury and Economic Development

FREEDOM OF INFORMATION REQUEST SCHEDULE

WHAT ARE THE PARAMETERS OF THE REQUEST	Reference NO.
"A copy of all briefings (including Question Time, Annual Reports and Budget estimates and any other briefing material) to the Chief Minister or Minister for Emissions Reduction regarding the Big Canberra Battery since 1/1/2020, including attachments to the briefs."	**CMTEDDFOI 2024-115**

Please note, that many of the documents marked as full access contain redactions. This is due to information contained being out of scope. According to the Ombudsman (2020) *Dealing with Access Applications,* if only out of scope information has been removed from relevant records, and all information considered in scope of the access application has been disclosed, it is considered a full access decision.

Ref No	Page number	Description	Date	Status	Reason for Exemption	Online Release Status
1	1-5	*Arrangement for Evoenergy for grant funding application*	19/10/2023	Full Release	n/a	Yes
2	6-9	*EPSDD brief - Barr - Climate Change Adaptation Activities*	15/12/2023	Full release	n/a	Yes
3	10-16	*Meeting & Arrangements Brief - Min Council Trade & Investment - 20 Oct (Att C.8 - Agenda Brief - 3. Transition to Net Zero references Big Canberra Battery)*	13/10/2023	Partial Release	Sch 2.2 (a)(ii) (207 whole pages removed as out of scope)	Yes
4	17-29	*Arrangements Brief - ACBC Networking Day - Green Economy Future*	October 2023	Full release	n/a	Yes
5	30-39	*CM Arrangements Brief and Talking Points - APCS-CCCLM Panel 2023 OCA update 10.10.23*	October 2023	Full release	n/a	Yes
6	40-43	*Info Brief - Barr - Future battery options - SIGNED*	12/09/2023	Partial Release	Sch 2.2 (a)(xiii)	Yes
7	44-50	*Arrangements Brief and speaking notes - Barr - Net Zero Fellowship India*	June 2023	Full release	n/a	Yes
8	51-61	*1. Brief - CM SIGNED - MIN R SIGNED [Icon Water - Quarterly Meeting with Shareholders 17 March 2023 - Brief]*	8/03/2023	Partial Release	Sch 2.2 (a)(xi)	Yes
9	62-65	*Info brief - 23-827 - SIGNED [Progress report on climate actions in Quarter 1 2023]*	28/02/2023	Partial	Sch 1 1.6	Yes

10	**66-89**	*Mtg Brief - 23-134 - TO SIGN [Canberra Business Chamber Roundtable - 5 September 2023]*	**29/08/2023**	**Partial Release**	**Sch 1 1.6**	**Yes**
11	**90-100**	*Chief Minister Arrangements Brief - ACBC Event*	**15/09/2022**	**Full release**	**n/a**	**Yes**
12	**101-105**	*SIGNED - Info Brief - Neoen Goyder South Renewable Project - 221874*	**23/05/2022**	**Full release**	**n/a**	**Yes**
13	**106-116**	*Arrangements Brief - Barr - Better Futures Australia Forum*	**06/09/2022**	**Full release**	**n/a**	**Yes**
14	**117-125**	*Meeting and Arrangements Brief - Brisbane Lord Mayor - 12 July 2022 - SIGNED CM*	**11/07/2022**	**Full release**	**n/a**	**Yes**
15	**126-131**	*MTG Brief - Meeting Minister Lauren Moss (NT Government) - 222927 - SIGNED CM*	**01/01/2021**	**Full release**	**n/a**	**Yes**
16	**132-137**	*Brief – 22-2563 to SIGN [Ministerial Meeting Brief - Barr - Mike Cannon-Brookes (Co-CEO & Co-Founder, Atlassian) - 15 June 2022]*	**14/06/2022**	**Full release**	**n/a**	**Yes**
17	**138-147**	*Arrangements Brief - Barr - Climate Action Network Australia National Conference - 21 June 2022*	**21/06/2022**	**Full release**	**n/a**	**Yes**
18	**148-157**	*2022-03-10 Arrangements Brief - Chief Minister - CEAG Preview - Canberra Switched On*	**15/03/2022**	**Full release**	**n/a**	**Yes**
19	**158-162**	*MTG Brief - 22-660 - TO SIGN [Ministerial Meeting Brief - Barr - Lunch with Ben Oquist & Saul Griffith - The Australia Institute]*	**24/02/2022**	**Partial**	**Sch2.2 (a)(ii)**	**Yes**
20	**163-172**	*Att A - Arrangements Brief - Barr - Australian Electric Vehicle Association Annual Conference*	**8/12/2021**	**Full release**	**n/a**	**Yes**
21	**173-180**	*20211021 - Arrangements brief - Global Race to Zero Summit - 21-4452*	**21/10/2021**	**Partial Release**	**Sch2.2 (a)(ii)**	**Yes**
22	**181-184**	*Arrangements Brief [Meeting brief for Treasurer with Andrew Dillon CEO of Energy Networks Australia - Wednesday 14 July 2021 10:30AM to 11:00 AM]*	**14/07/2021**	**Full release**	**n/a**	**Yes**
23	**185-190**	*CM - Arrangements Brief - CEFC*	**08/04/2021**	**Full release**	**n/a**	**Yes**
24	**191-199**	*PwC to discuss Government priorities (Minister Steel) (MM) - Thursday 18 March 2021 3:30 – 4pm - Meeting Brief - Minister Steel*	**17/03/2021**	**Full release**	**n/a**	**Yes**
25	**200-205**	*HoS Cleared Brief to Chief Minister - Changes to Accountability Indicators and Half Yearly Performance Reporting CMTEDD Budget Statement*	**24/01/2021**	**Full release**	**(45 whole pages removed as out of scope)**	**Yes**

26	**206-211**	*Arrangements Brief [Meeting at AEMO Offices - 24/11/2020 1:30p - 2:30p - Arrangements Brief - Chief Minister, Matt Mison and Faheem Khan]*	**24/11/2020**	**Full release**	**n/a**	**Yes**
27	**212-217**	*210802 - CM Signed brief - Big Battery [release of ANU co-design report]*	**30/06/2021**	**Full Release**	**n/a**	**Yes**
28	**218-222**	*4.2 Big Canberra Battery*	**2023**	**Full Release**	**n/a**	**Yes**
29	**223-227**	*4.1 Climate Change in the ACT*	**2023**	**Full release**	**n/a**	**Yes**
30	**228-241**	*4.1 Climate Change in the ACT (OCA, ZEV)*	**2023**	**Full release**	**(10 whole pages removed as out of scope)**	**Yes**
31	**242-245**	*4.2 Big Canberra Battery*	**Undated**	**Full Release**	**n/a**	**Yes**
32	**246-249**	*4.1 Climate Change in the ACT*	**2023**	**Full release**	**n/a**	**Yes**
33	**250-253**	*4.2 Big Canberra Battery*	**19/07/2023**	**Full Release**	**n/a**	**Yes**
34	**254-258**	*4.2 Big Canberra Battery*	**Undated**	**Full Release**	**n/a**	**Yes**
35	**259-261**	*Climate Action Back Pocket Brief - Big Canberra Battery*	**Undated**	**Full Release**	**n/a**	**Yes**
36	**262-263**	*Climate Action: - back pocket brief - Big Battery*	**Undated**	**Full Release**	**n/a**	**Yes**
37	**264-266**	*Climate Action: Back Pocket Brief - Big Canberra Battery*	**Undated**	**Full Release**	**n/a**	**Yes**
38	**267**	*Climate Action: Back Pocket Brief - Announceables*	**Undated**	**Full release**	**n/a**	**Yes**
39		*22-675 Cabinet Brief [Submission -Big Canberra Battery - update and options for Neighbourhood-Scale Batteries]*		**Refusal**	**Sch 1 1.6**	**No**
40		*Chief Minister Brief - Big Canberra Battery - update and options for Neighbourhood Scale Batteries*		**Refusal**	**Sch 1 1.6**	**No**
41		*SIGNED - Info Brief - 22-2088 [BCB Stream 3 - June 2022 CAS Discussion Paper]*		**Refusal**	**Sch 1 1.6**	**No**
42		*SIGNED - Brief - Big Canberra Battery Business Case*		**Refusal**	**Sch 1 1.6**	**No**
43		*WIRE - CM22-50258 SIGNED - Brief - Big Canberra Battery Business Case [2022-23 Budget Proposal CMTEDD - E0023 - Big Canberra Battery - Stream 1]*		**Refusal**	**Sch 1 1.6**	**No**

44		*Brief - Signed CM - Nil comment [Big Canberra Battery Procurement Authorisation Brief]*		**Refusal**	**Sch 1 1.6**	**No**
45		*Info Brief - CM - Big Battery ERC Submissions December 6 - 21-5681*		**Refusal**	**Sch 1 1.6**	**No**
46		*Info Brief - 21-4891 - SIGNED [Cab No. 21/683 - Big Canberra Battery CM Brief and Cabinet Subcommittee Discussion Paper]*		**Refusal**	**Sch 1 1.6**	**No**
47		*CM Signed Brief [Canberra Battery Storage - Options Paper]*		**Refusal**	**Sch 1 1.6**	**No**
48		*CM signed brief [Cabinet Submission - Canberra Big Battery Storage - Discussion Paper]*		**Refusal**	**Sch 1 1.6**	**No**
49		*CM signed brief [Business Case - Climate action sustainable household scheme big battery vulnerable household energy efficiency program]*		**Refusal**	**Sch 1 1.6**	**No**
50		*SIGNED - Info Brief - 22-2088 [BCB Stream 3 - June 2022 CAS Discussion Paper]*		**Refusal**	**Sch 1 1.6**	**No**
51		*SIGNED - Brief - Big Canberra Battery Business Case*		**Refusal**	**Sch 1 1.6**	**No**
52		*Info Brief - 23-4624 - SIGNED [Agreement with Evoenergy for Commonwealth Grant Funding for NSBs]*		**Refusal**	**Sch 1 1.6**	**No**
53		*Info brief - 2278 - SIGNED [Big Canberra Battery Stream 3 - proposed discussion paper for Climate Action Subcommittee]*		**Refusal**	**Sch 1 1.6**	**No**
54		*CMTEDD C14 - BCB - Info Brief [2023-24 Budget Proposal - CMTEDD C14 - Big Canberra Battery Stream 1]*		**Refusal**	**Sch 1 1.6**	**No**
55		*Parliamentary and Governing Agreement Reporting Brief - Climate Action*		**Refusal**	**Sch 1 1.6**	**No**
56		*Attachment B - Chief Minister Brief - ACT Climate Change Council 21 May 2021*		**Refusal**	**Sch 1 1.6**	**No**
57		*21-284 Cabinet Brief [May progress Report]*		**Refusal**	**Sch 1 1.6**	**No**
58		*Brief to the CM - Draft Agenda - Climate Action Cabinet Subcommittee - 17 May 2021 Meeting*		**Refusal**	**Sch 1 1.6**	**No**
59		*CMTEDD CM Cabinet Brief 12 4 21 202 April Progress Report*		**Refusal**	**Sch 1 1.6**	**No**
60		*Cabinet Meeting Brief - June progress report*		**Refusal**	**Sch 1 1.6**	**No**

61		*Chief Ministers Brief [Monthly Report - 28 June 2021]*		**Refusal**	**Sch 1 1.6**	**No**
62		*Info Brief - CM - Progress report discussion paper - CM report - 21-5638 - SIGNED*		**Refusal**	**Sch 1 1.6**	**No**
63		*Signed by Minister Rattenbury - Brief to Voting Shareholders Icon Water 3 Nov 2021*		**Refusal**	**Sch 1 1.6**	**No**
64		*SIGNED - Info Brief - 22-2011 [Ministerial Information Brief - CM - June 2022 Progress Report for Climate Action Subcommittee]*		**Refusal**	**Sch 1 1.6**	**No**
65		*Info brief - 22-4162 - SIGNED [Ministerial Information Brief - CM - CA Subcommittee - September quarter progress report - 22-4162]*		**Refusal**	**Sch 1 1.6**	**No**
66		*0.Brief - ACT Infr Plan - City Service - Signed CM*		**Refusal**	**Sch 1 1.6**	**No**
Total No of Docs						
66						

OFFICIAL

MINISTERIAL BRIEF

Chief Minister, Treasury and Economic Development Directorate

To:	Minister for Climate Action	**Tracking No.: CMTEDD2023/4624**
Date:	05/10/2023	
From:	Coordinator General for Climate Action	
Subject:	Arrangement with Evoenergy for grant funding application under the Commonwealth's Community Batteries for Household Solar Program	
Critical Date:	19/10/2023	
Critical Reason:	To enable the application to be submitted by 5pm on 20/10/2023	

Recommendations

That you:

1. Note the information contained in this brief;

Noted / Please Discuss

2. Agree to the ACT Government being the lead applicant in a joint application with Evoenergy for the Commonwealth's Community Batteries for Household Solar Program – Business Grants Hub Stream.

Agreed / Not Agreed / Please Discuss

3. Agree to the ACT Government entering into a bilateral agreement with Evoenergy for the Commonwealth's Community Batteries for Household Solar Program – Australian Renewable Energy Agency Stream.

Agreed / Not Agreed / Please Discuss

Andrew Barr MLA 15./10./23

Minister's Office Feedback

Background

1. The Commonwealth Government's $200 million Community Batteries for Household Solar Program (the Program) provides grants to eligible entities for the installation of 400 neighbourhood-scale batteries (NSBs) across Australia.

2. Locations for the first 58 batteries were announced in March 2022, with three of these committed to the ACT (Dickson, Casey and Fadden).

3. Funding for the 58 batteries is being delivered by the Commonwealth Government's Business Grants Hub (BGH). A grants round was open from 30 January 2023 to 24 February 2023, and offered grants of between $100,000 and $500,000 per battery (up to 100% of capital cost, and maximum $1000 per kilowatt hour).

4. Evoenergy applied for the BGH funding to deliver batteries at the three ACT locations. They were deemed ineligible because Evoenergy is not an incorporated entity. No other entities applied for funding for the ACT batteries. Evoenergy requested that the BGH reconsider their eligibility, but this was unsuccessful.

5. Funding of $171 million for the remaining 342 batteries will be delivered by the Australian Renewable Energy Agency (ARENA).

6. ARENA allocated $120 million to their 'Community Batteries Funding Round 1.' Round 1 will be a two-stage process, an Expressions of Interest (EOI) process, followed by a Full Application Stage for shortlisted applicants. The EOI was open between April and June 2023. Evoenergy are eligible under the ARENA guidelines and applied for funding for five or more batteries. They are expecting advice on the outcome of their application soon.

Issues

<u>Community Batteries for Household Solar Program – BGH Stream</u>

7. The Commonwealth's BGH opened a second grants round on 7 September for batteries that were not funded in the first round in January/February 2023. This includes the three ACT batteries and three batteries in Victoria. The grant round closes on 13 October.

8. The eligibility criteria in the current round are the same as the first round, and therefore, Evoenergy remain ineligible.

9. Evoenergy and the ACT Government (EPSDD's Big Canberra Battery team and CMTEDD's Office for Climate Action) have discussed a possible arrangement where the ACT Government is the lead applicant on the grant application, and Evoenergy are the delivery partner.

10. This arrangement would see the ACT Government apply for funding under the BGH funding round, with Evoenergy listed as a partner. A formal agreement (to be developed) would see the ACT Government provide BGH funding directly to Evoenergy

for the delivery of the three batteries if the application was successful. Evoenergy would be responsible for the installation of the batteries in their network and the ongoing operation and maintenance of the batteries. The batteries would become Evoenergy's assets.

Out of scope

18. EPSDD's Big Canberra Battery team is working with CMTEDD's Office for Climate Action on the potential arrangements with Evoenergy.

Out of scope

Signatory Name:	Sam Engele	Phone:	6205 0230
Action Officer:	Lara Lloyd	Phone:	6205 1093

ACT Government
Environment, Planning and Sustainable Development

Out of scope

MINISTERIAL BRIEF

OFFICIAL

To:	Minister for Climate Action
CC:	Minister for Water, Energy and Emissions Reduction
Date:	15 December 2023
From:	Carolyn Goonrey, Senior Director – Climate Change and Energy
Subject:	Adaptation and resilience policy activities - EPSDD
Critical Date:	In the normal course of business

Tracking No.: CMTEDD2023/5936

Noted 14/1/23

- Coordinator-General for Climate Action 15/12/23

Recommendations
That you:

1. **Note** the information contained in this brief;

Noted / Please Discuss

2. **Note** ad hoc updates will be provided via your regular briefings;

Noted / Please Discuss

Out of scope

Agreed / Not Agreed / Please Discuss

Out of scope

Agreed / Not Agreed / Please Discuss

Andrew Barr MLA 20/12/23

Minister's Office Feedback

Background

1. This brief provides an overview of climate change adaptation activities underway in the Adaptation and Resilience Policy (ARP) team of the Climate Change and Energy Division (CCED) in the Environment, Planning and Sustainable Development Directorate (EPSDD) that fall under your portfolio responsibility as Minister for Climate Action.

2. The ARP team leads climate change adaptation and resilience policy development for CCED. ARP's activities are focused on urban and living infrastructure adaptation and resilience, and community and household adaptation and resilience.

Issues

3. Several activities undertaken by the ARP team reside within your portfolio as Minister for Climate Action. A short summary of each activity is provided below, with additional detail in Attachment A. Further information can be provided on request, and your preference for future briefing on these activities is sought.

Out of scope

Out of scope

Out of scope

Climate ready planning and development systems

10. CCED works with Planning and Urban Policy to ensure that ACT planning and development regulatory systems support climate action, including the Living Infrastructure Plan. These activities sit across a number of portfolios - Climate Action, Energy and Emissions Reduction, Environment, and Sustainable Buildings.

11. For Climate Action, clearer planning pathways for large batteries, such as the Big Canberra Battery project, were delivered through the Planning System Review and Reform project. Future Climate Action portfolio work includes reviewing whether the planning system appropriately addresses climate change related natural disaster risk.

Out of scope

Financial Implications

14. Nil for the purpose of this brief.

Consultation

Internal

15. Office for Climate Action have been consulted and provided feedback on this brief.

Cross Directorate

16. Nil.

External

17. Nil.

Work Health and Safety

18. Nil for the purpose of this brief.

Benefits/Sensitivities

19. To date, Minister Rattenbury has received the updates on ARP's climate change adaptation and resilience activities as the Minister responsible for climate change policy.

Communications, media and engagement implications

20. Nil for the purpose of this brief.

Signature:	Sam Engele	Phone:	6205 0230
Signatory Name:	Carolyn Goonrey	Phone:	6207 6858
Action Officer:	Perry Wiles	Phone:	6207 6742

Attachments

Attachment	Title
Attachment A	ARP Climate Change Adaptation Activities Update

Chief Minister, Treasury and Economic Development Directorate

To:	Chief Minister	**Tracking No.: CMTEDD2023/3699**
Date:	13/10/2023	
From:	ACT Commissioner for International Engagement Deputy Director General, Economic Development	
Subject:	Ministerial Council on Trade and Investment briefing pack	
Critical Date:	**17/10/2023**	
Critical Reason:	Meeting date 20 October 2023.	

That you:

1. Note the information contained in this brief.

Andrew Barr MLA 20/10/23

Minister's Office Feedback

ACT Government
Chief Minister, Treasury and Economic Development

Ministerial Council on Trade and Investment

MEETING BRIEF

Agenda Item 3: Transition to Net Zero

ACT POSITION
The ACT: 1. This item is for discussion; however the ACT notes a national approach for programs and policies to attract and take advantage of new clean energy opportunities.

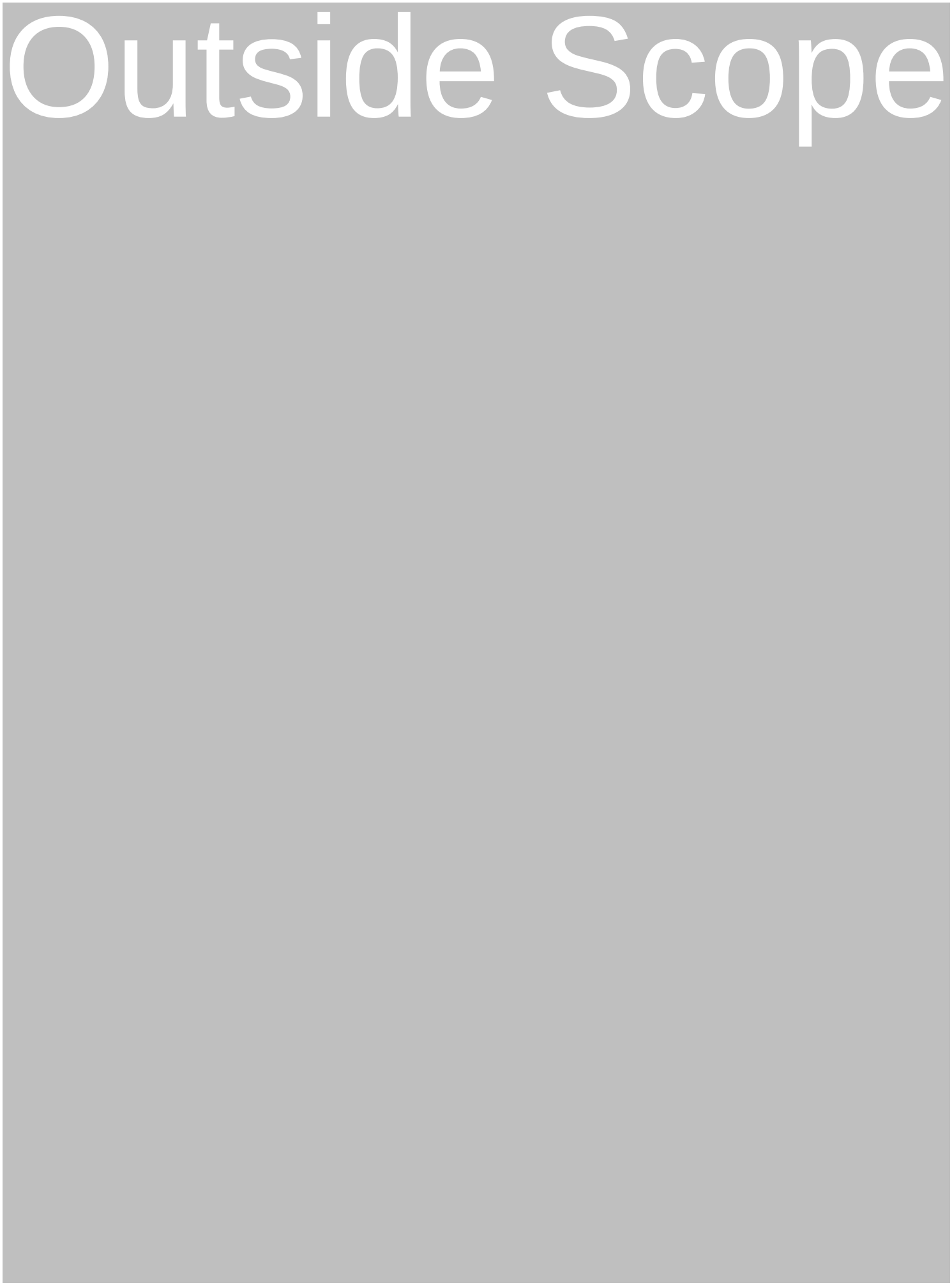
KEY POINTS

Outside Scope

Outside Scope

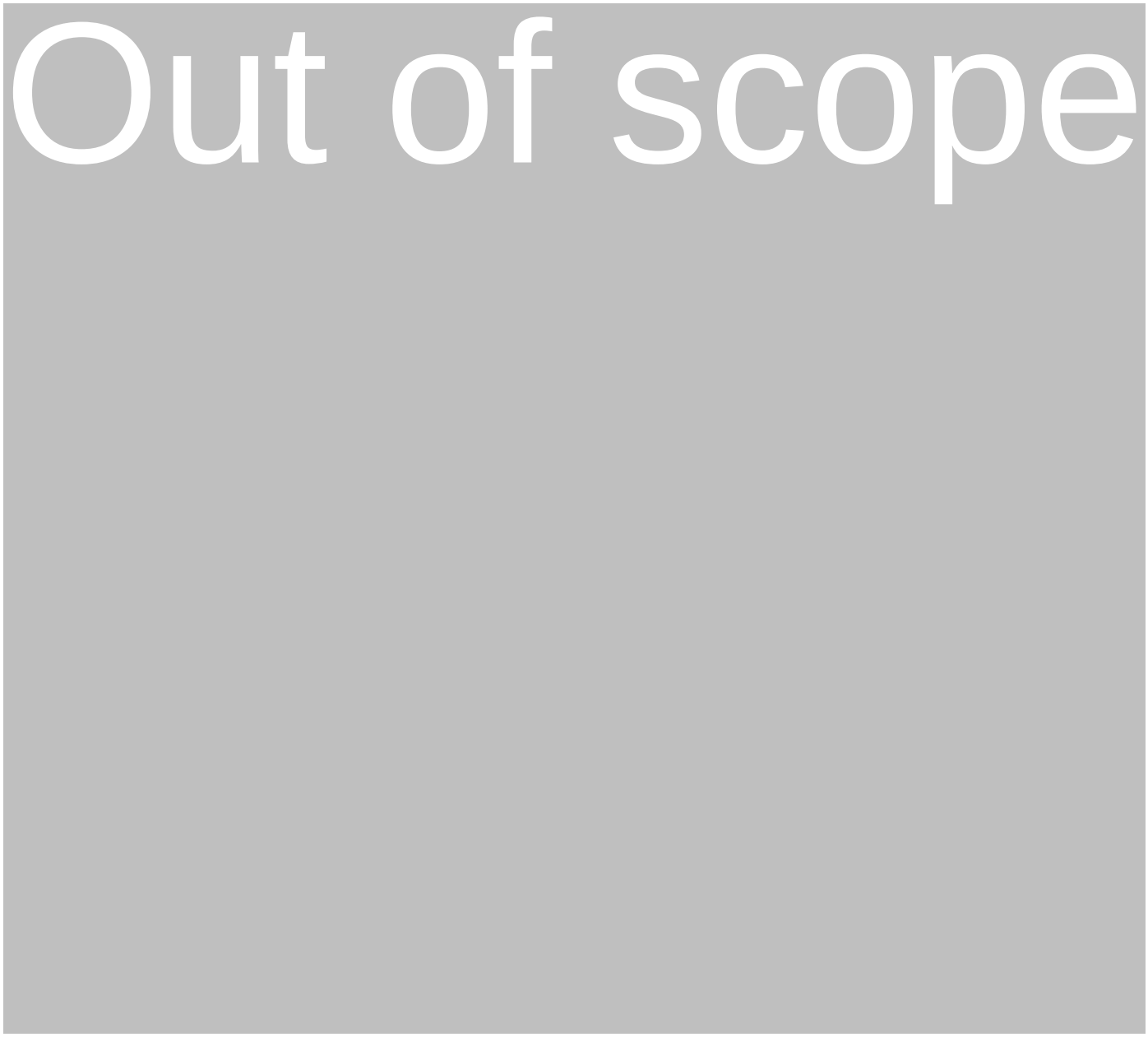
- Building energy storage solutions
  - ACT's large and small-scale energy storage will help store excess renewable energy and release it when it's needed.
  - The "Big Canberra Battery", an ecosystem of diverse battery systems varying in size and design, will be spread throughout Canberra and provide over 250 megawatts of stored renewable energy.
  - The Government has partnered with Eku Energy to deliver the next stage of the Big Canberra Battery with a large-scale battery storage facility in Williamsdale. This 250MW battery energy storage system will be able to store enough renewable energy to power one-third of Canberra for two hours during peak demand periods.
  - Through an innovative revenue sharing arrangement, the Territory will receive a consequential share of the revenue from the battery's participation in the National Electricity Market.

Outside Scope


Outside Scope

Outside Scope

CONTACT	
Name - Position	**Mobile**
Sean Kelly – Senior Director Innovation, Investment and Tertiary Education	Sch 2.2(a)(ii)


Out of scope

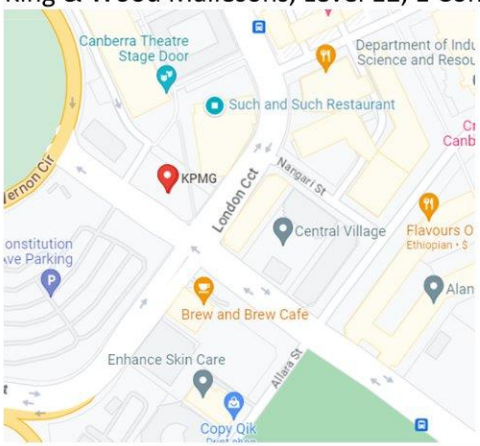
ACT Government
Chief Minister, Treasury and Economic Development

Ministerial Council on Trade and Investment

MEETING BRIEF

Out of scope

ARRANGEMENTS BRIEF

FUNCTION:	Australian China Business Council (ACBC) Networking Day - ACT Green Economy Future Event
VENUE:	King & Wood Mallesons, Level 12, 1 Constitution Avenue ACT 
HOST:	Name: Jenny Chen – President of the ACBC ACT Chapter Phone: 0433932211
DAY:	Thursday
DATE:	19th Oct 2023
TIME:	You are scheduled to deliver the closing remarks from 2:10-2:20pm. • The lunch event is scheduled to commence from 12:30pm. The panel discussion will be held from 1pm.
TIME COMMITMENT:	Approximately 10 minutes.
CATERING:	Nil. Lunch will be provided to event participants.
DRESS CODE:	Business.
YOUR ROLE:	To deliver a 10-minute speech focusing on the ACT's accomplishments over the past 12 months to build a renewable economy. You have been invited to provide closing remarks.
WHERE TO PARK:	The venue is walking distance from the Legislative Assembly.
WHO WILL MEET YOU:	ACBC representatives (Jenny Chen and staff) will greet attendees at the entrance to the venue.
ACCOMPANYING ATTENDEES:	Matt Mison and Brittany Atkins

<table>
<tr><td>AUDIENCE:</td><td>The audience will include representatives from Canberra's tertiary education sector, ACBC members and business partners.</td></tr>
<tr><td>VIPs:</td><td>The following VIP guests will attend a panel discussion:
<table>
<tr><td>Annabel Griffin</td><td>Partner, KWM</td></tr>
<tr><td>John Grimes</td><td>CEO, Smart Energy Council</td></tr>
<tr><td>Dr. Jorrit Gosen</td><td>Research fellow, Centre for Climate Energy Policy</td></tr>
<tr><td>Thomas Wang</td><td>CEO, Helios Truck Australia</td></tr>
</table>
Jenny Chen, President, ACBC (ACT)

The following attendees are from the Embassy of the People's Republic of China:
<table>
<tr><td>Han Xue</td><td>First secretary</td></tr>
<tr><td>Xu Xiaolu</td><td>Third secretary</td></tr>
</table>
The National President of ACBC, David Olsson will also attend.</td></tr>
<tr><td>PAST INVOLVEMENT:</td><td>23 August 2023 you attended the ACBC "Beyond the Classroom" Education Event at Hotel Realm: to showcase Canberra's post-study employment opportunities, with a focus on international students.
Attendees: Representatives from Canberra's tertiary education sector, ACBC members & business partners, and international students.

15 September 2022: you attended the Green Energy Working Lunch, ACBC networking event. Focusing on Climate Action, current and future roadmap regarding the ACT Climate Change Strategy 2019-2025, and the ACT's achievements in sustainability.
Attendees: ACBC members & business partners, members of academia</td></tr>
<tr><td>SENSITIVITIES:</td><td>Nil.</td></tr>
<tr><td>ORDER OF CEREMONIES</td><td>10:30 - 12:00 pm: Site visit at Hydrogen Storage Lab in ANU
11:00: Panellists scheduled to arrive at KWM offices
12:30: All other attendees to arrive
12:40: ACBC President to welcome attendees
12:45: Lunch served.
13:00: Panel discussion commences.
14:10: Chief Minister's speech and closing remarks - 10 minutes
14:30: Event concludes</td></tr>
<tr><td>SOCIAL MEDIA ACCOUNTS</td><td>ACBC's social media:
X: @auschinabc
Facebook</td></tr>
</table>

	YouTube LinkedIn

Attachment A

SPEAKING NOTES FOR THE 2023 ACBC Networking Day: ACT Chief Minister Green Economy Future Lunch

12.30-2.30pm Thursday 19 Oct 2023
KWM Office, Level 12, 1 Constitution Place Canberra

Acknowledgements

- **Traditional owners**: I acknowledge the Ngunnawal people as the traditional custodians of the ACT and recognise any other people or families with connection to the lands of the ACT and region. I acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

- I would like to thank the Australia China Business Council, the national president David Olsson, and ACT chapter president Jenny Chen for the opportunity to speak to you today; and King and Wood Mallesons for hosting today's event.

- I would also like to thank our panel members, John Grimes, Dr Jorrit Gosen and Thomas Wang for sharing their valuable insights and to Annabel Griffin for moderating the discussion.

- I acknowledge and thank officials from the Embassy of the People's Republic of China for attending today's event.

What has the ACT achieved over the past year towards our green economy future?

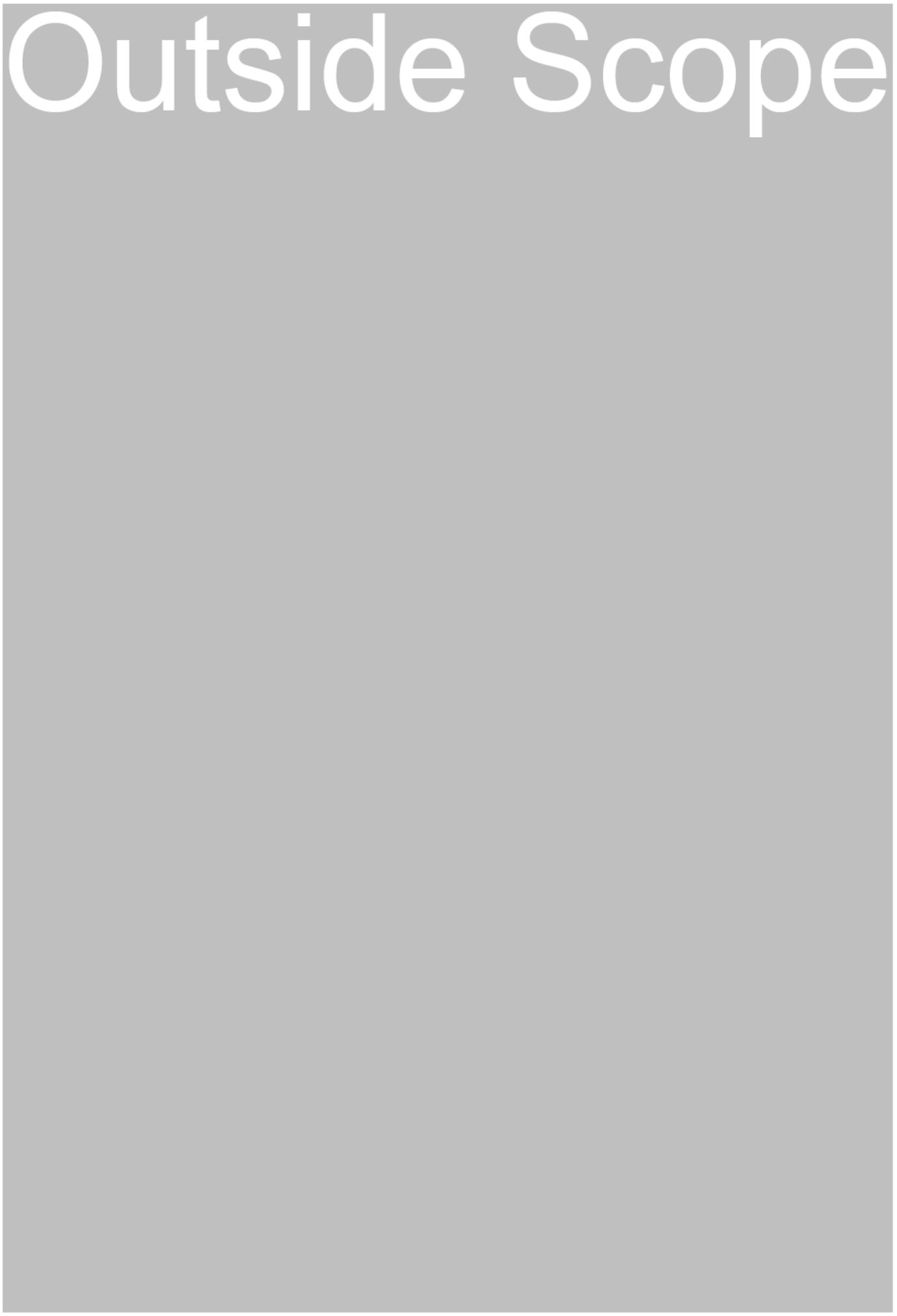
- The ACT Government is committed to reaching net-zero emissions by 2045.This has led us to take steps to transition the ACT away from the use of fossil fuel gas and the electrification of government assets, homes and businesses. As we prepare for this future, we are focusing on developing our energy network to respond to increased electricity demand, supporting those who can least afford to transition on their own, attracting the right skills and workforce to achieve this change and making sure our pathway to transition is clear, fair and equitable. Our commitment to electrifying our city means that demand for renewable electricity in the ACT will grow substantially over the next few decades. The ACT Government has implemented a number of initiatives to support this electrification and grow the renewable energy sector.

Big Canberra Battery

- The ACT Government has partnered with Eku Energy to deliver the next stage of the Big Canberra Battery with a large-scale battery storage facility in Williamsdale. This 250MW battery energy storage system will be able to store enough renewable energy to power one-third of Canberra for two hours during peak demand periods. It will cost between $300 and $400 million and will be developed, built, and operated by Eku Energy. Through an innovative revenue sharing arrangement, the Territory will receive a consequential share of the revenue from the battery's participation in the National Electricity Market. The

battery will also provide a range of energy and essential system security services. In exchange, the Territory will provide Eku Energy with fixed quarterly payments over a period of 15 years. The Big Canberra Battery project will provide renewable energy security across the electricity grid, help the ACT grow its renewable energy sector, provide more local employment opportunities, and deliver a positive financial return for the Territory.

Outside Scope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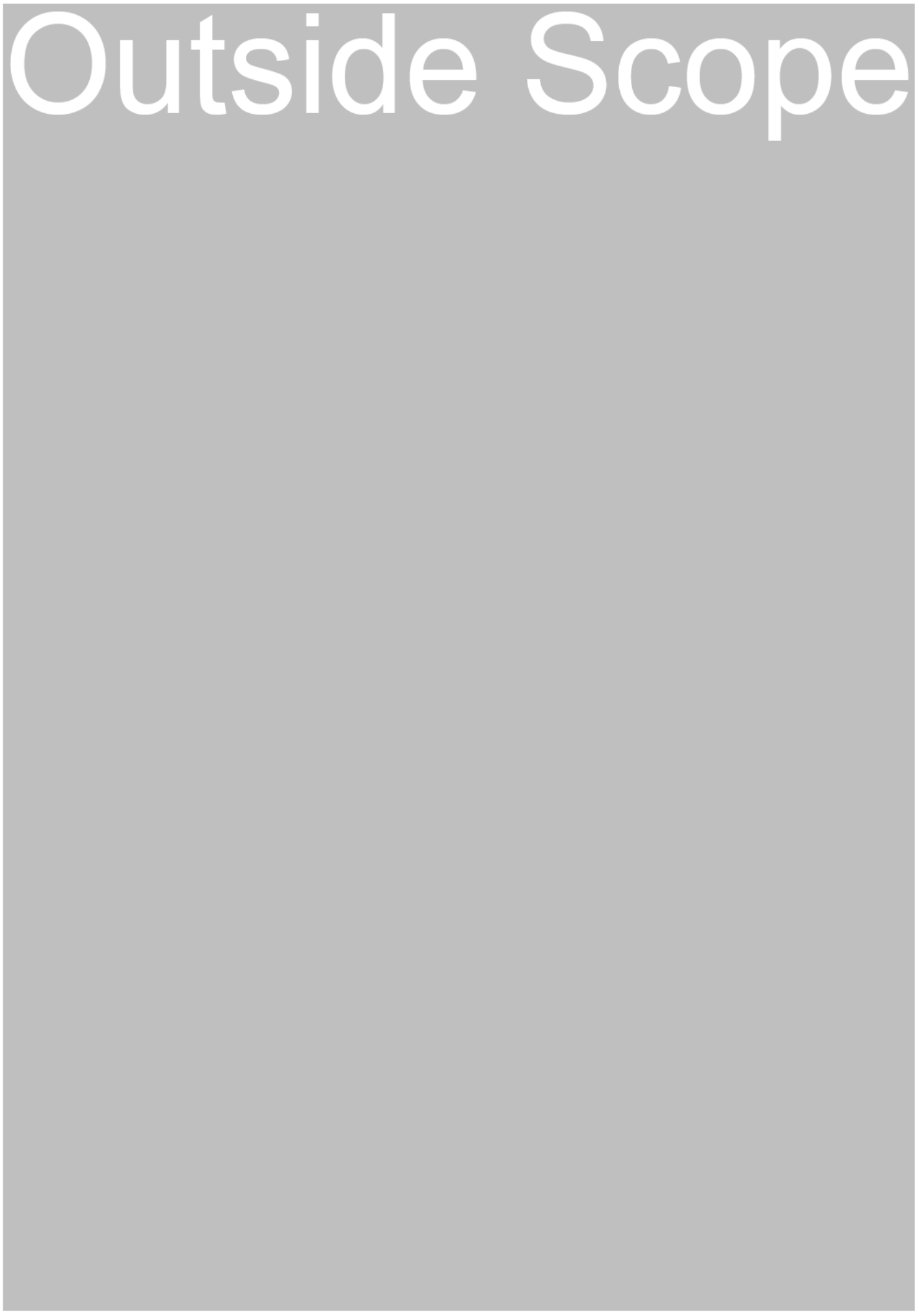
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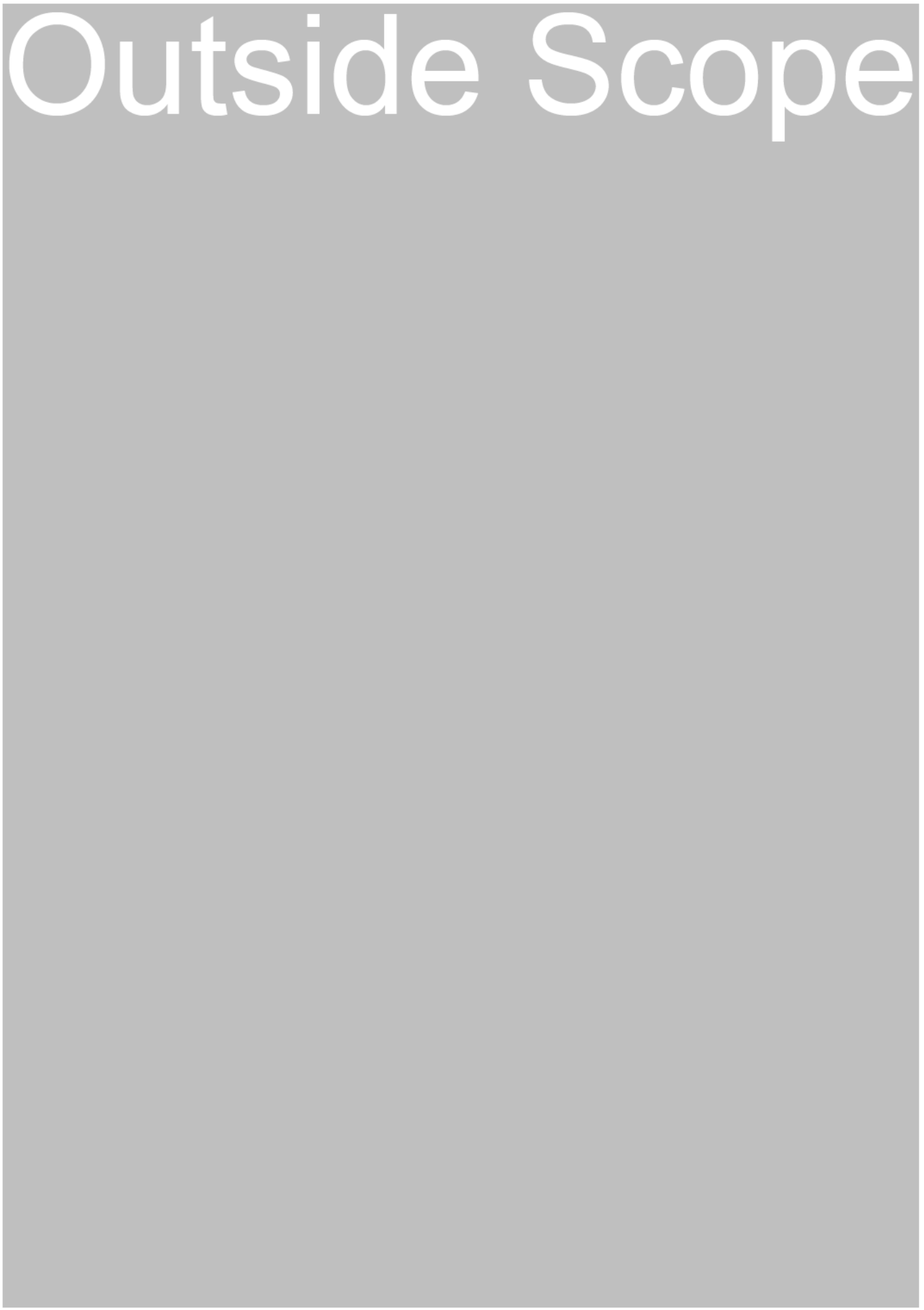
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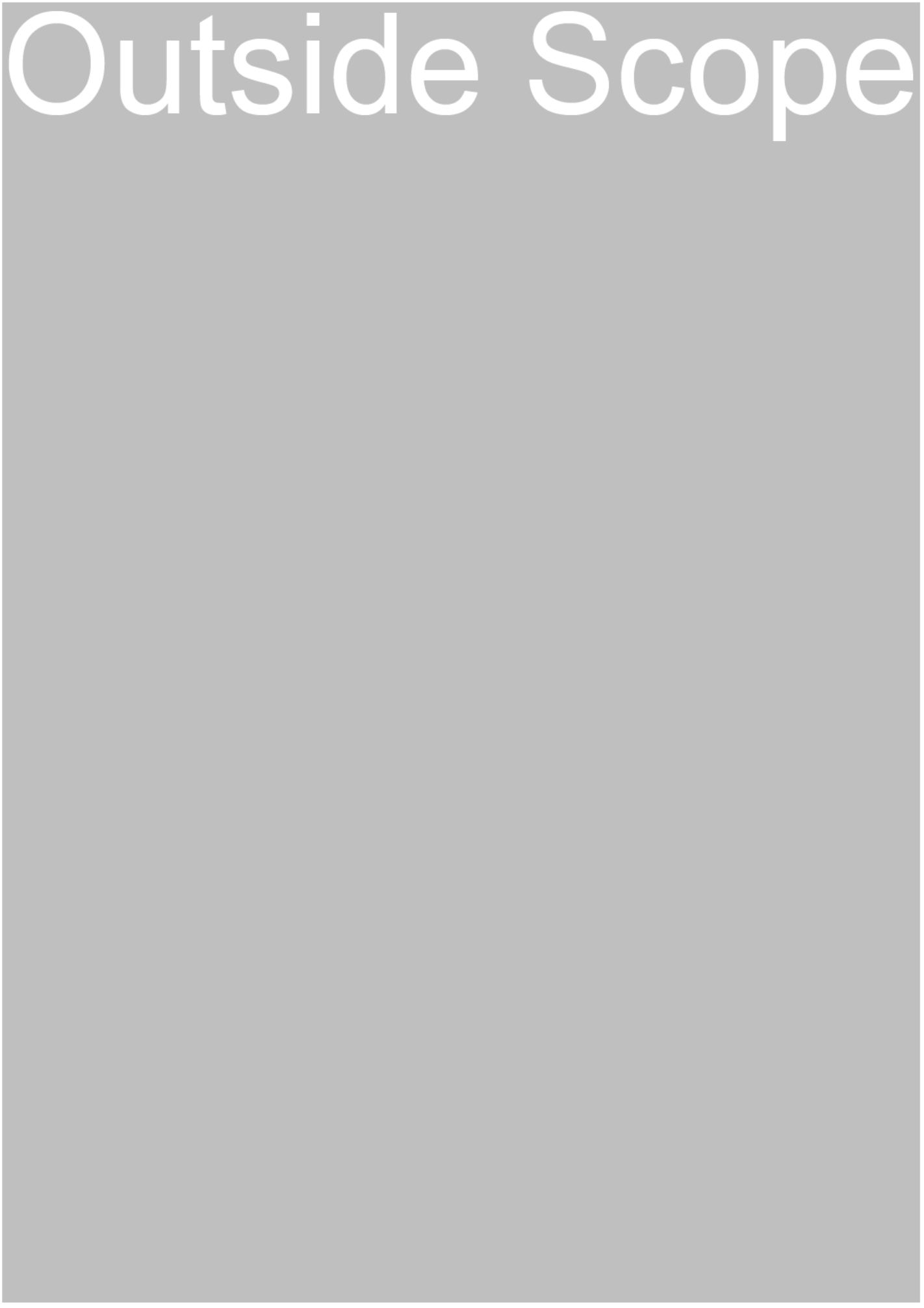
Outside Scope

Outside Scope

Attachment B: Attendee List – Provided by ACBC (updated as of 16 October 2023)

Full Name	Title	Site Visit	CM Lunch	Organisation
Thomas Wang	Executive Director	y	√	Helios Technology Corporation
William Zhou	Chief Operating Officer	√	√	Helios Technology Corporation
Jenny Chen	ACT President		√	ACBC
Lucy Peng	Partner	√	√	Deloitte
Celina Yu	Founding Managing Director	√	√	Global Business College of Australia
Julie Song	Group Manager China Relations	√	√	Fortescue
Charles Zhan	Partner		√	Moulis Legal
Maya Shehayeb	General Manager, Australasia	√	√	Euromonitor International
Yolanda Gauld	Chief Operating Officer	√	√	Infinite Green Energy
Phil Miller	CEO	√	√	Vincents
Leigh Ferguson	Program Manager	√	√	National Foundation for Australia-China Relations
Frank LEE	Head of CBD	√	√	ICBC Sydney Branch
Sarah Yu	Associate Professor		√	UC
Sam Munsie	General Manager		√	AMIC
Dom Haywood	Head of Sustainability		√	ANU
Yun Liu	Co leader ARC Centre of excellence for Carbon Science and Innovation		√	ANU
Nelia Niemand	Assistant Manager		√	St. George
Barry Young	Intern		√	Lygon Group
Hao Chen	Director		√	Raku Dining
Ian Gash	Regional Manager		√	Westpac Group
Stuart Hancock	Head of property		√	Westpac Group - st. george
Harry Hoang	CEO	y	√	Tailored Accounts
Rohan Armstrong	CFO		√	McGrath Canberra
John O'Doherty	CEO		√	CM Australia
Jane Golley	Professor		√	ANU

Sung Lee	Asia Practise Director		√	PwC
Andrea Yang	Assistant Manager		√	Helios Motors
Giuseppe Trimbli	Assistant Manager		√	St. George
Brendan Smyth	International Commissioner		√	ACT Government
Jess Wang	Manager		√	Department of Industry
Pat Bustamante	Senior Economist		√	Westpac Group
Jing Wang	Partner and Head of China Practice		√	Gadens
Michael MacRitchie	Founding Partner		√	MGI Entertainment
Qiu Zhongyi	Counsellor	y		Embassy of the People's Republic of China
Yang Haoxing	First secretary	y		Embassy of the People's Republic of China
Han Xue	First secretary	y	y	Embassy of the People's Republic of China
Yang Yini	Second secretary	y		Embassy of the People's Republic of China
Xu Xiaolu	Third secretary	y	y	Embassy of the People's Republic of China
Matt Mison	Deputy Chief of Staff		√	ACT Government
Brittany Atkins	Climate Action Senior Advisor		√	ACT Government
David Olsson	National President	y	y	ACBC

ACT Government

Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	Council of Capital City Lord Mayors (CCCLM) Panel at the Asia Pacific Cities Summit (APCS)
VENUE:	Plaza Auditorium, Brisbane Convention & Exhibition Centre (BCEC), Corner of Merivale and Glenelg Streets, South Bank, Brisbane
HOST:	The 2023 APCS is hosted by the Right Honourable Lord Mayor of Brisbane, Adrian Schrinner. APCS Contact: Susie Clowes, Project Manager – Asia Pacific Cities Summit and Mayors' Forum, Brisbane City Council. Phone: (07) 3178 0790. CCCLM Contact: Deborah Wilkinson, CCCLM Executive Director. Phone: 0433 096 450.
DAY:	Thursday
DATE:	12 October 2023
TIME:	1:45pm – 2:15pm However, are requested to arrive at **1:25pm** to allow for pre-briefing and a microphone/sound check.
YOUR TIME COMMITMENT:	Approx 30 minutes.
CATERING:	Nil.
DRESS CODE:	Business.
YOUR ROLE:	Participate in a Council of Capital City Lord Mayors (CCCLM) panel at the Mayors Forum, which involves a facilitated Q&A session. Talking points are provided below.
WHERE TO PARK:	Public paid parking is available at the BCEC.

Andrew Barr MLA - Arrangements Brief and Speaking Notes

WHO WILL MEET YOU:	CCCLM Executive Director, Deborah Wilkinson, will be available to assist with preparations for the CCCLM Panel. Phone: 0433 096 450. The following people will also be available if required: • Wil Blount, Executive Group Manager, Policy & Cabinet 0422 636 282 • David Clapham, Executive Branch Manager – Regional, Infrastructure, Transport and Planning, Policy & Cabinet 0438 303 209	
CMO STAFF ATTENDING:	Yersheena O'Donoghue, Head of Governance and Cabinet.	
AUDIENCE:	Lord Mayors (or equivalent city leaders) and other senior city representatives, as well as industry, NFP, research and academia attendees are expected to attend the APCS.	
VIPs:	CCCLM Lord Mayors: • Lord Mayor of Melbourne, Sally Capp (CCCLM Chair) • Lord Mayor of Brisbane, Adrian Schrinner (APCS Host) • Lord Mayor of Adelaide, Jane Lomax Smith • Lord Mayor of Darwin, Kon Vatskalis • Lord Mayor of Hobart, Anna Reynolds • Lord Mayor of Perth, Basil Zempilas	
PAST INVOLVEMENT:	You previously participated in the 2019 Asia Pacific Cities Summit.	
ORDER OF CEREMONIES:	Panel Facilitator: Sylvia Jeffreys	
	1:25pm	Lord Mayors and MC assemble backstage for pre-briefing and microphone attachments/checks (a light lunch will also be available)
	1:40pm	Panel makes their way to the stage
	1:45pm	MC provides a welcome and introduces panellists. Introductory comment will open the session and bring in you and each of the Lord Mayors in a conversational style.
	1:50pm	Conversation commences using questions provided
	2:10pm	Wrap up and final comments
	2:15pm	Event concludes
SOCIAL MEDIA ACCOUNTS:	Lord Mayor Adrian Schrinner, City of Brisbane: Facebook: @councillor.schrinner Twitter/X: @Schrinner CCCLM: Twitter/X: @ccclm01	

ATTACHMENT A – SPEAKING NOTES FOR THE ASIA PACIFIC CITIES SUMMIT – CCCLM LORD MAYORS PANEL

1:45PM-2:15PM, THURSDAY 12 OCTOBER 2023

BRISBANE CONVENTION & EXHIBITION CENTRE (BCEC)
CORNER OF MERIVALE AND GLENELG STREETS, SOUTH BANK

Acknowledgements (if applicable)

- **Traditional owners**: I begin today by acknowledging the Traditional Custodians of the land on which we gather today, and pay my respects to their Elders past and present. I extend that respect to Aboriginal and Torres Strait Islander peoples here today, and I acknowledge and respect their continuing culture and the contribution they make to the Brisbane city and surrounding region.

- I would like to thank:
    - the Lord Mayor of Brisbane, Adrian Schrinner, for hosting the 2023 Asia Pacific Cities Summit, and
    - the Council of Capital City Lord Mayors (CCCLM) Chair for 2023, the Lord Mayor of Melbourne, Sally Capp, who has led the CCCLM's engagement in the APCS.

Outside Scope

- The Big Canberra Battery, an ecosystem of diverse battery systems varying in size and design, will be spread throughout Canberra and provide over 250 MW of stored renewable energy. The Government has partnered with Eku Energy to deliver the next stage of the Big Canberra

Battery with a large-scale battery storage facility in Williamsdale. This 250MW battery energy storage system will be able to store enough renewable energy to power one-third of Canberra for two hours during peak demand periods. It will cost between $300 and $400 million and will be developed, built, and operated by Eku Energy. Through an innovative revenue sharing arrangement, the Territory will receive a consequential share of the revenue from the battery's participation in the National Electricity Market. The battery will also provide a range of energy and essential system security services. In exchange, the Territory will provide Eku Energy with fixed quarterly payments over a period of 15 years. The Big Canberra Battery project will provide renewable energy security across the electricity grid, help the ACT grow its renewable energy sector, provide more local employment opportunities, and deliver a positive financial return for the Territory.

Outside Scope

Andrew Barr MLA - Arrangements Brief and Speaking Notes

Outside Scope

Outside Scope

Outside Scope

Outside Scope

OFFICIAL

ACT Government

MINISTERIAL BRIEF

Chief Minister, Treasury and Economic Development Directorate

To:	Minister for Climate Action	**Tracking No.: CMTEDD2023/4121**
Date:	12/09/2023	
From:	Coordinator General for Climate Action	
Subject:	Big Canberra Battery – Future Battery Options	
Critical Date:	**In the normal course of business**	
Critical Reason:	To undertake a commercial consultancy on the viability of another utility-scale battery project in a timely manner.	

Recommendations

That you:

1. Note the information contained in this brief; and

Noted / Please Discuss

2. Agree to the Big Canberra Battery team proceeding with a commercial consultancy exploring the viability of another utility-scale battery project in the ACT.

Agreed / Not Agreed / Please Discuss

Andrew Barr MLA 22/9/23

Minister's Office Feedback

Background

1. Action A1(v) of the Parliamentary and Governing Agreement, to deliver at least 250 megawatts (MW) of new 'large-scale' battery storage distributed across the ACT, has been achieved. This includes:

    a. the 250 MW/500 megawatt hour (MWh) Williamsdale battery energy storage system (BESS), to be developed by Eku Energy;

    b. behind-the-meter (BTM) batteries at 11 government sites; and

    c. a proposed agreement with Evoenergy to develop neighbourhood-scale batteries.

2. The Big Canberra Battery team have investigated opportunities for future battery projects. Options that may provide a positive return on investment to the Territory include further utility-scale BESS projects, similar to the Williamsdale BESS, and BTM batteries at bus depots. Other options were investigated that are unlikely to stack up in the near term. These include batteries plus hydrogen as backup power for hospitals, and batteries to allow for grid disconnection at fringe-of-grid sites.

Issues

Further Utility-scale BESS Projects

3. [redacted]

4. A market need for further storage almost certainly exists. Evoenergy estimates that the ACT's peak electricity demand will approximately double as our city electrifies. AEMO's 2022 Integrated System Plan suggests that the National Electricity Market will require approximately 20 times more battery power (MW) and 40 times more storage capacity (MWh) when electricity generation is 100% renewable.

5. The precise commercial opportunity for batteries in the ACT is unclear, and to better define this, a commercial consultancy is proposed. This consultancy would explore if a revenue-share agreement, similar to that with Eku Energy, should again be sought, or if the Territory should consider other options. The effect of storage duration on project revenue would also be investigated to determine the opportunity for long-duration storage.

6. It may be possible to access additional funding for future utility-scale BESS through the Commonwealth's Capacity Investment Scheme. The Big Canberra Battery team are also investigating the scope of this opportunity.

7. Proposed timelines for further utility-scale BESS projects are as follows:

    a. complete the proposed commercial consultancy by February 2024;

b. provide an update to you in Q3 2023-24 on the findings and opportunities for your consideration; and

c. Subject to timing, this could also be included in any future Climate Action Infrastructure Plan refresh.

Batteries at Bus Depots

8. Initial scoping by the Big Canberra Battery team suggests that batteries at bus depots that will host electric busses could have a better business case than batteries at other government sites. While estimated payback periods for combined solar and batteries at bus depots currently exceed the warranted battery life, payback periods may improve as battery prices are expected to steadily reduce over time.

9. The Big Canberra Battery team will undertake further analysis to determine the scope of this opportunity.

Financial Implications

10. Commercial advice and financial modelling on the viability of further utility-scale BESS projects is critical to understanding the opportunity. This commercial consultancy is expected to cost approximately $50,000 to $100,000 and would be funded through existing project expenses funding.

11. There are no financial implications for scoping work on batteries at bus depots.

Consultation

Internal

12. This brief was collaboratively developed by CMTEDD's Office for Climate Action and EPSDD's Big Canberra Battery team.

13. Access Canberra's Utilities Technical Regulator was consulted on electricity network capacity for further utility-scale BESS installations in the ACT.

Cross Directorate

14. Input has been sought from EPSDD's Zero Emissions Government team for batteries at bus depots.

15. TCCS was consulted on plans for electric busses and bus depots.

External

16. Evoenergy was consulted on electricity network capacity for further utility-scale BESS installations in the ACT. The Big Canberra Battery team will meet with Transgrid (the electricity transmission network service provider) in September 2023 to discuss transmission network capacity.

17. A meeting was held with AEMO Services on the future market need for batteries in the NSW National Electricity Market (NEM) region, which includes the ACT.

Work Health and Safety

18. Nil

Benefits/Sensitivities

19. Further utility-scale BESS projects could improve our energy security, allow for greater renewables uptake in the NEM, and deliver a positive financial return to the Territory, as for the Williamsdale BESS.

Sch 2.2(a)(xiii)

Communications, media and engagement implications

21. Nil

Signatory Name:	Sam Engele	Phone:	6205 0230
Action Officer:	Kieran Lawton	Phone:	0466 389 760

ACT Government

Member for Kurrajong

Attachment A: ARRANGEMENTS BRIEF

FUNCTION:	You have been invited to share a video recording with participants of the 2023 Net Zero Fellowship program in India, showcasing ACT Government Climate Action achievements. The Net Zero Fellowship, administered by the independent Indian think tank the School of Policy and Governance, is an invite-only program for emerging political and public leaders in India. The program is designed to foster a deeper understanding of climate change issues and educate participants on the potential pathways to a low carbon or net-zero future.
VENUE:	Your Office – ACT Legislative Assembly
HOST:	Name: Lisa Cliff – Program Director, Better Futures Australia Mobile: 0429 998 315 Your video recording should be sent to Name: Shreelata Krishnan Email: skrishnan@policyandgovernance.in
DAY:	Thursday
DATE:	8 June 2023
DRESS CODE:	Business
YOUR ROLE:	You have been invited to provide a short video recording showcasing ACT Government climate action achievements and to articulate Canberra's vision for a climate-resilient future. The video will be shared with participants of the 2023 Net Zero Fellowship program in India.
AUDIENCE:	Your audience will comprise of approximately 100 participants of the 2023 Net Zero Fellowship Programme.
SENSITIVITIES:	According to curriculum materials for the 2023 Net Zero Fellowship Programme, the course has a particular focus on the net-zero transition as well "climate justice" issues. There is an emphasis on

	acknowledging that, "climate change is as much about ethics and society, as it is about physical and environmental concerns." Programme participants will have an interest in the concept of a fair transition as well as the ACT Government's efforts to decarbonise the economy.

Andrew Barr MLA - Arrangements brief

SPEAKING NOTES FOR THE NET ZERO FELLOWSHIP PROGRAM IN INDIA

Thursday 8 June 2023

I would like to thank the School of Policy and Governance and Better Futures Australia for this opportunity to speak to the participants of the 2023 Net Zero Fellowship Programme. I am honoured by this request and welcome the chance to speak to India's current and emerging leaders about how we can work together to address the impacts of climate change and build a more climate-resilient future.

Outside Scope

Outside Scope

To ensure our energy grid can support this increase in electricity demand, we are also investing in large- and small-scale battery storage systems. The Big Canberra Battery, an ecosystem of diverse battery systems varying in size and design, will be spread throughout Canberra and provide at least 250 MW of stored renewable energy to support grid reliability and security. This infrastructure will be essential to achieving the ACT Government's electrification initiatives. Not only will it strengthen our energy grid, but it will also reduce greenhouse gas emissions, create more skilled local jobs and drive the long-term development, growth and sustainability of Australia's renewable energy sector.

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Chief Minister, Treasury and Economic Development Directorate

SENSITIVE

To:	Treasurer Minister for Water, Energy and Emissions Reduction	**Tracking No.:** CMTEDD2023/480
Date:	8 March 2023	
From:	Executive Branch Manager, Economic and Financial Analysis	
Subject:	Quarterly Shareholder Meeting with Icon Water	
Critical Date:	17 March 2023	
Critical Reason:	The meeting is on 17 March 2023.	

- UT 10/03/23

Purpose: To brief the Voting Shareholders on issues to be raised by Icon Water.

Recommendations

1. That you **note** the background information on each of the agenda items to be discussed at the meeting.

Noted/Please Discuss **Noted/Please Discuss**

Andrew Barr MLA.....15/3/23 **Shane Rattenbury MLA**.....16/3/23

Minister's Office Feedback

Background

1. The next quarterly Icon Water Voting Shareholders' meeting will be held online on Friday 17 March 2023 from 11.30am to 12.30pm. The following items have been listed:

A. Energy Investment - ActewAGL Update (John Knox)

1. Energy Investments
   a) Evoenergy update
   b) ActewAGL Retail Update
   c) Other business
      - AEMC Smart Meter Proposal
      - Meter Reading Resources Issue

B. Water and waste (Ray Hezkial/Wendy Caird)

2. Financial performance 2022-23 update
3. Renewal of Icon/ActewAGL corporate service contracts
4. Status of Enterprise Bargaining
5. Board Representation PAGA Commitment No 90
6. Director Appointments
7. Other Business
   - Uriarra Pipeline Update
   - Icon Water December 2022 Quarterly report to Shareholders

2. The attendees in addition to you as Voting Shareholders are:

   a. Icon Water: Wendy Caird, Chair; Caroll Lilley, Deputy Chair, Ray Hezkial, Managing Director; and Joy Yau, Chief Financial Officer.

   b. ActewAGL: John Knox, Chief Executive Officer (for the energy items only).

   c. Directorate Officials: Stuart Hocking PSM, Under Treasurer; and Geoffrey Rutledge, for Director-General EPSDD.

Issues

A. 1. Energy Investment Items – ActewAGL Update (John Knox)

Sch 2.2(a)(xi)

Out of scope

Outside Scope

***Canberra's Big Battery* (not on the agenda)**

19. Under the Parliamentary and Governance Agreement, the Government agreed to procure a battery of at least 250MW capacity of grid connected battery storage to support the electricity network and to be physically located in the ACT during this term, known as the 'Big Canberra Battery'.

    a. The Government has selected Macquarie's proposed battery at Williamsdale as the preferred solution for the Big Canberra Battery procurement.

20. It is understood that Macquarie is proposing to connect to the Evoenergy 132kV network adjacent and you might emphasise that Evoenergy's support will be important in progressing this priority project for the Government.

Outside Scope

Outside Scope

Outside Scope

Outside Scope

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OFFICIAL MINISTERIAL BRIEF

Chief Minister, Treasury and Economic Development Directorate

To:	Minister for Climate Action	**Tracking No.: CMTEDD2023/827**
Date:	28/02/2023	
From:	Office for Climate Action	
Subject:	Climate Action reporting for Quarter 1 2023	
Critical Date:	**06/03/2023**	
Critical Reason:	To meet the final lodgement timeframe required for the 14 March 2023 Climate Action Subcommittee	

Recommendations

That you:

1. **Sign** the Quarter 1 2023 reporting from the Chief Minister, Treasurer and Minister for Climate Action at Attachment C; and

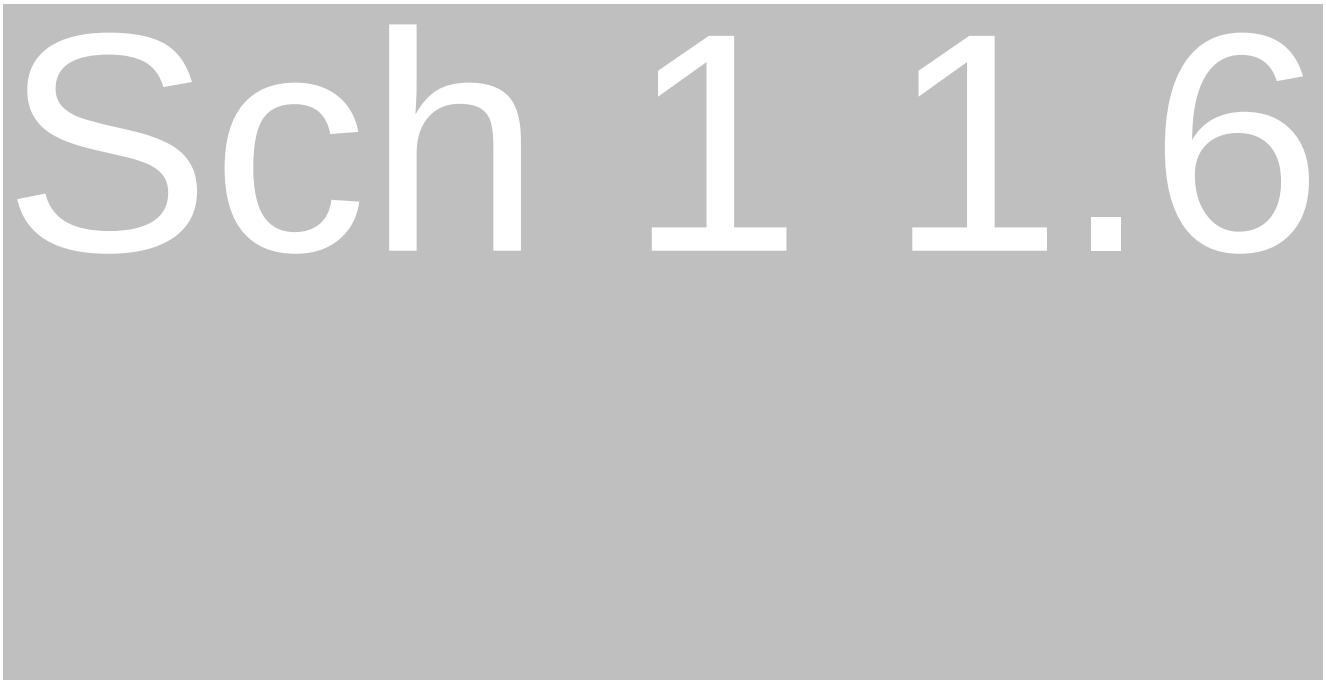
Signed / Not Signed / Please Discuss

2. **Sign/Agree** to the Discussion Paper at Attachment A be lodged for the 14 March 2023 Climate Action Subcommittee meeting.

Signed / Not Signed / Please Discuss

Andrew Barr MLA 12/3/23

Minister's Office Feedback


Sch 1 1.6

Sch 1 1.6

d. The Big Canberra Battery Stream 1 procurement concludes, and the partner will be announced in April 2023. Stream 2 will also announce sites and installers in April 2023. Options for Stream 3 will be developed over quarter two for consideration at the July 2023 CAS meeting.

Out of scope

Financial Implications

7. There are no direct financial impacts as this item is administrative in nature.

Consultation

Internal

8. Consultation was undertaken with the CMTEDD Communications and Engagement team and the Economic Modelling and Quantitative Analysis team in Treasury for Attachment C.

Cross Directorate

9. Consultation regarding the reporting provided by Ministers (Attachments C-H) was undertaken with Cabinet-designated line areas, with nil input returned.

External

10. Nil.

Work Health and Safety

11. Nil.

Benefits/Sensitivities

Sch 1 1.6

Communications, media and engagement implications

15. Nil.

Signatory Name:	Sam Engele	Phone:	6205 0230
Action Officer:	Juleigh Langenberg	Phone:	6207 5719

Attachments

Attachment	Title
Attachment 1	Discussion Paper – Climate Action Reporting for Q1 2023
Attachment 1A	Chief Minister, Treasurer and Minister for Climate Action Report
Attachment 1B	Acting Minister for Water, Energy and Emissions Reduction and Minister for Gaming Report
Attachment 1C	Acting Minister for Gaming Report
Attachment 1D	Minister for Building and Construction, Minister for Environment Report
Attachment 1E	Minister for Transport and City Services Report
Attachment 1F	Minister for Planning and Land Management Report (unsigned)

Chief Minister, Treasury and Economic Development Directorate

To:	Minister for Economic Development	**Tracking No.: CMTEDD2023/134**
Date:	29/08/2023	
From:	A/g Executive Branch Manager, Business and Innovation	
Subject:	Canberra Business Chamber Roundtable Meeting – 5 September 2023	
Critical Date:	04/09/2023	
Critical Reason:	To brief you ahead of the Canberra Business Chamber Business Roundtable meeting on 5 September 2023	

- DDG 01/09/23
- EGM 31/08/23

Recommendations

That you:

1. Note the information contained in this brief; and

Noted / Please Discuss

2. Note the information contained in the Arrangements Brief at Attachment A, and speaking notes at Attachment B.

Noted / Please Discuss

Andrew Barr MLA ..../...../.....

Minister's Office Feedback

Background

1. You have been invited to attend a Canberra Business Chamber (CBC) Roundtable meeting. The CBC states that roundtable meetings are held as an opportunity for a private, direct, two-way exchange of views on major issues affecting businesses and economic growth in Canberra.

2. The CBC has requested your attendance to discuss the ACT Government's priorities and programs relating to business strategy, infrastructure and energy, particularly through your address at the meeting. You have indicated you would like to discuss key priorities relating to skills, trade and housing in the ACT.

3. Speaking notes on these priority areas and arrangements for the meeting are provided at Attachment A.

4. Mr Mark Paviour, Director, Government Communications Unit, will attend the meeting with you. No directorate representative will be present.

5. You met with the recently appointed CBC CEO, Mr Greg Harford, and CBC Chair, Mr Archie Tsirimokos on Wednesday 30 August 2023. Ms Kareena Arthy, Deputy Director-General, Economic Development also attended the meeting (CMTEDD2023/3605).

6. Mr Harford's previous role was Chief Executive of Retail New Zealand, the peak body for New Zealand's retail sector.

7. You last met with the CBC Board on 20 April 2022 (CMTEDD2022/1602) and discussed local business conditions, Canberra Switched On – ACT's Economic Development Priorities 2022-25, short to medium term Government priorities and assistance that could be provided to the CBC.

Issues

8. An Arrangements Briefing has been prepared at Attachment A including speaking notes on all key issues.

9. An agenda for the meeting has been prepared by the CBC and is at Attachment B.

Financial Implications

10. Nil.

Consultation

Internal

11. Skills Canberra provided an update on Skills and Workforce Attraction initiatives which has been incorporated into the speaking notes (Attachment A).

Cross Directorate

12. The following areas were consulted and provided input into the speaking notes (Attachment A):

a. The Better Regulation Taskforce;

b. The Office for International Engagement (OIE);

c. Policy and Cabinet Division – Regional Infrastructure, Planning and Transport;

d. Policy and Cabinet Division – Office for Climate Action; and

e. Treasury – Affordable Housing Policy.

External

13. Nil.

Work Health and Safety

14. Nil.

Benefits/Sensitivities

Out of scope

Sch 1 1.6

Communications, media and engagement implications

18. Nil.

Signatory Name:	Hugh Maclachlan	Phone:	x55588
Action Officer:	Peta Lemmon	Phone:	x59868

Attachments

Attachment	Title
Attachment A	Arrangements Brief with speaking notes

Outside Scope

ACT Government

Andrew Barr MLA

Chief Minister

Treasurer
Minister for Climate Action
Minister for Economic Development
Minister for Tourism

Member for Kurrajong

Attachment A: ARRANGEMENTS BRIEF

FUNCTION:	Canberra Business Chamber (CBC) Business Roundtable
VENUE:	Meyer Vandenberg Offices, EY Building, Level 2, 121 Marcus Clarke St, Canberra
HOST:	Ms Kate Holland, Chief Operating Officer: 0407 215 164
DAY:	Tuesday
DATE:	5 September 2023
TIME:	16:00 – 17:30
TIME COMMITMENT:	1 hour and 30 minutes
CATERING:	Nil.
DRESS CODE:	Business.
YOUR ROLE:	You have been invited by the Canberra Business Chamber Board (CBC) to attend a Roundtable meeting. The CBC have requested you discuss the ACT Government's priorities and programs relating to: 1. infrastructure, 2. energy and 3. business strategy. You have indicated you would also like to discuss: 4. housing, 5. skills and 6. trade. You will have from 16:18 to 17:30 to address the CBC on these matters and answer any questions from members. Talking Points are at Attachment A1.

Andrew Barr MLA - Arrangements brief

	The meeting will be a closed meeting with no media.
WHERE TO PARK:	Parking has not been reserved as your office confirmed that you will be walking to the venue.
WHO WILL MEET YOU:	Ms Kate Holland, Chief Operating Officer: 0407 215 164 or Ms Justine Heidemann, Events Manager and EA to the CEO: 0438 181 631
ADVISOR ATTENDING:	Mr Mark Paviour
AUDIENCE:	The agenda provided by the CBC is at Attachment B and states the following attendees will be at the meeting: Mr Colin Anstie RD Consulting Mr Dinko Colak Canberra Business Chamber Mr Jason Duarte Westpac Mr Luke Garner UNSW Canberra Mr Martin Greenwood University of Canberra Mr Graham Gulson Gulson Canberra Mr Rattesh Gumber IT Alliance Australia Mr Greg Harford CEO, Canberra Business Chamber Ms Lucy Hohnen St Vincent de Paul Society (Canberra/Goulburn) Ms Kate Holland Canberra Business Chamber Mr Michael Hopkins Master Builders ACT Mr Matthew Kelly Hays Specialist Recruitment Mr John Kelly Aspen Medical Ms Helen Leayr Communication Link Mr Richard Lindsay CA ANZ Mr Michael Matthews Canberra Convention Bureau Mr Michael McGoogan Region Media Group Mr Duncan Miller Canberra Business Chamber Mr Phillip Miller Vincents Mr Adam Myott Hyatt Hotel Canberra Mr Paddy Nixon University of Canberra Ms Sarah Rajic Capital Recruit Mr Scott Seddon Kellogg Brown & Root Pty Ltd Mr George Skillin Chartertech Pty Ltd Mr Archie Tsirimokos Canberra Business Chamber Mr Darius von Guttner ACU National Canberra Mr Matt Walshe CSCC Mr Vince Whiteside Village Building Co Mr Todd Wills EY Mr Steve Wood National Convention Centre Canberra
VIPs:	No VIPs will be at meeting, however for reference the following are CBC Board members. Mr Greg Harford, CEO (attending meeting) Mr Archie Tsirimokos, Chair (attending meeting) Mr Craig Wagstaff Ms Kimberley Ohayon

Andrew Barr MLA - Arrangements brief

	Ms Lisa McPherson Mr Mark Field Mr Richard Snow Ms Stephanie Bates Mr Rhys Cormick Ms Sarah Rajic, Deputy Chair (attending meeting)
PAST INVOLVEMENT:	You had an introductory meeting with Mr Greg Harford, new CEO of the CBC, at your offices on Wednesday 30 August 2023.
SENSITIVITIES:	The CBC was unsuccessful in a recent open tender process for provision of the Canberra Business Advice and Support Service (CBASS) program for 2023-25. The tender was awarded to Lighthouse Business Innovation, who commenced delivery of the program on 13 July 2023.
ORDER OF CEREMONIES	A detailed agenda is at Attachment B. 16:00 Mr Tsirimokos commences meeting, introduces major CBC partner, the University of Canberra. 16:05 Minister for Economic Development is invited to provide opening remarks. 16:15 Prof. Paddy Nixon and Mr Martin Greenwood update on partnership between University of Canberra and CBC. 16:18 Minister for Economic Development provides address. 17:30 Minister for Economic Development leaves. 17:30 Networking and Drinks. 18:00 Meeting ends.
COMMS/MEDIA	Nil. This will be a closed meeting.
SOCIAL MEDIA ACCOUNTS	Nil.
OUTSTANDING REGULATORY ISSUES	Nil.

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

ATTACHMENT A1 – SPEAKING NOTES FOR THE

Canberra Business Chamber Business Roundtable
Tuesday, 5 September 2023

Outside Scope

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Outside Scope

- The Big Canberra Battery.

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

- Large and small-scale energy storage will help Canberra store excess renewable energy.

- The Big Canberra Battery will provide at least 250 megawatts of power to support grid reliability and security through the development of a diverse range of batteries that will vary in size, purpose and design. The project is being delivered in three stages:
    - Stream 1: Installation of large, grid-connected batteries to deliver batteries over 10 megawatts;
    - Stream 2: Installation of behind-the-meter batteries at Government sites like schools and depots; and
    - Stream 3: Installation of neighborhood-scale batteries, to develop smaller batteries (500 kilowatts – 5 megawatts) that are connected to the distribution network.

- Together these three streams will enhance the large-scale battery sector within Canberra and support the ACT Government's electrification initiatives.

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

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Andrew Barr MLA - Arrangements brief

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Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

ACT Government

Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	*Green Energy* Working Lunch, ACBC Networking Day
VENUE:	King Wood and Mallesons Office, Level 12, 1 Constitution Avenue
HOST:	Name: Jenny Chen, Canberra Branch, ACBC Mobile: 0435 389 561
DAY:	Thursday
DATE:	15 September 2022
TIME:	12.30-13.30
TIME COMMITMENT:	1 hour
CATERING:	Sit down lunch
DRESS CODE:	Business
YOUR ROLE:	Speech (Attachment A) – 10min *Available equipment* – Microphone, Lectern
WHERE TO PARK:	Parking is available underneath 220 London Circuit
WHO WILL MEET YOU:	Jenny Chen
ADVISOR ATTENDING:	Matt Mison and Faheem Khan Brendan Smyth, CIE will also be in attendance.
AUDIENCE:	Please see Attachment B
VIPs:	Mr David Olsson, National President of ACBC Ms Pru Bennett, Chairman of NFACR Mr Peter Cai, CEO of NFACR
PAST INVOLVEMENT:	You have attended other functions for the Canberra Branch of the ACBC.
SENSITIVITIES:	Nil.
ORDER OF CEREMONIES	12.25pm: Arrive at KWM Office

Andrew Barr MLA - Arrangements brief

	12.30pm: Ms Chen introduces the Chief Minister 12.45pm-12.50pm: Chief Minister speaks 1.30pm: Event concludes
COMMS/MEDIA:	Nil.
SOCIAL MEDIA ACCOUNTS	Nil.
OUTSTANDING REGULATORY ISSUES	Nil.

ATTACHMENT A

SPEAKING NOTES FOR THE ACBC GREEN ENERGY WORKING LUNCH

12.30PM, THURSDAY 15 SEPTEMBER 2022

KWM OFFICE, LEVEL 12, 1 CONSTITUTION PLACE

Acknowledgements

- **Traditional owners**: I acknowledge the traditional custodians of the land we are meeting on, the Ngunnawal people. I acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.
- Ladies, gentlemen, colleagues. I would like to take this opportunity to firstly thank Mr David Olsson and Ms Jenny Chen for allowing me to participate in this 2022 Australia China Business Chamber working lunch event.
- I would also like to thank King Wood and Mallesons for hosting us today.
- It is with great pride that I present to you, not only as the Chief Minister of the ACT but also the Minister for Climate Action, the ACT Government's commitment to be Net Zero by 2045.
- The ACT Government has a target of net zero emissions by 2045, which is supported through a series of actions in the *ACT Climate Change Strategy 2019-2025*, as well as the Parliamentary and Governing Agreement for the current term of Government.
- Already, we are leading the nation with some of our recent achievements including:
    - In 2020, the ACT achieved 100 per cent renewable electricity, which made a significant cut in our emissions; and
    - In 2021, we launched our Sustainable Household Scheme, which is one of the cornerstones of our Climate Action at the household level. The Government has made a $150 million commitment over five years to incentivise ACT residents to improve the energy efficiency of their households by upgrading to greener technologies.

Outside Scope

- And work has commenced on the Big Canberra Battery:
  - The Big Canberra Battery project will help more Canberra households move to renewable energy.
  - Big batteries are also known as large-scale batteries. They can power thousands of homes for hours or days, depending on the size.
  - The Big Canberra Battery will provide at least 250 megawatts (MW) of power.

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

ENDS

Andrew Barr MLA - Arrangements brief

Attachment B

No.	Attendee	Organisation	Title
1	David Olsson	ACBC / King & Wood Mallesons	National President
2	Jenny Chen	ACBC / St. George	ACT President / Relationship Director - Business Banking
3	Gavin Gao	ACBC / iSentia	Executive Committee
4	Harry Hoang	ACBC / Tailored Accounts	Executive Committee / CEO
5	Angela Lehmann	ACBC / The Lygon Group	Executive Committee / Head of Research
6	Sung Lee	ACBC / PwC	Executive Committee / Director, Asia Practice
7	Jane Golley	ACBC / ANU	Executive Committee / Professor
8	Elizabeth Gardner	ACBC	ACBC intern
9	Danny Moulis	Moulis Legal	Partner (PANEL MODERATOR)
10	Neil Wang	Foton Mobility Distribution Pty.Ltd	CEO (PANELLIST)
11	Zhou Honglin	Foton Mobility Distribution Pty.Ltd	Sales Manager - Foton International
12	Adrian Salinas	Lectromotiv	CEO (PANELLIST)
13	Claire Rogers	King & Wood Mallesons	Partner (PANELLIST)
14	Dr Qi Zhang	Baxter IP	Principal, Patent & Trade Mark Attorney
15	Professor Alan Lau	Swinburne University of Technology	Pro Vice-Chancellor (Research)
16	Bruce McLaughlin	Sinogie Consulting	CEO
17	Janine Herzig	CEEC International	Executive President & Director
18	Matthew Gerber	Yancoal	GM, Corporate Affairs & Sustianability
19	Nick McDermott	Yancoal	Government Policy Adviser
20	Julie-Anne Nichols	Trade and Investment Queensland	Senior Trade and Investment Commissioner
21	Tom Weaver	Fortescue Metals Group	Group Manager, First Nations Policy
22	Shaun Devitt	Fortescue Metals Group	Group Manager External Affairs
23	Ting Xie	Fortescue Metals Group	Senior Marketing Liaison Officer
24	Julie Song	Fortescue Metals Group	Group Manager China Relations
25	Jenni Kang	Austrade	Senior Adviser, Investment - Asia
26	Tim Hogan-Doran	Deloitte Australia	Partner
27	Peter Cai	NFACR	CEO
28	Gareth Williams	NFACR	Deputy CEO
29	Pru Bennett	NFACR	Chairman
30	Ian Oades	Stramark Partners	Managing Partner
31	Sophy Liu	FuturaEV	Director
32	Lian Jian	Linden Wise	Director
33	Giuseppe Trimboli	St. George	Account Executive
34	Nelia Niemand	St. George	Account Executive
35	Ian Gash	Westpac	Regional General Manager
36	Min Chen	CCPIT AUS	Chief Representative
37	Ning Li	CCPIT AUS	Deputy Representative

Andrew Barr MLA - Arrangements brief

38	Michael Levin	Foton Mobility Distribution Pty.Ltd	Government & Community Liaison
39	Sid Rallapalli	Nexport	Director - Commercial and Tenders
40	Yujie Hao	King & Wood Mallesons	Partner
41	Malcolm Brennan	King & Wood Mallesons	Partner
42	Eveline Kuang	King & Wood Mallesons	Senior Associate
43	Katie Haywood	King & Wood Mallesons	Solicitor
44	Intan Eow	King & Wood Mallesons	Partner
45	Grace Kelly	King & Wood Mallesons	Solicitor
46	Weiwei Shi (TBC)	Beijing Jingneng Clean Energy	KWM guest
47	Michael Woodward	Canberra Data Centres	KWM guest
48	Nikhil Narayan	Canberra Data Centres	KWM guest
49	Brett Cooper	Austrade	KWM guest
50	Charles Zhan	Moulis Legal	Partner
51	Shaun Creighton	Moulis Legal	Partner
52	Dr Keith Lovegrove	ITP Renewables	Moulis Guest
53	Raman Bhardwaj	Elvin Group	CFO
54	Rohan Armtstrong	McGrath Canberra	CFO
55	Rob Ogilvie	Ion DNA	CEO
56	Pat Bustamante	Westpac	Senior Economist
57	Andrew Barr	ACT Government	
58	Matt Mison	ACT Government	
59	Faheem Khan	ACT Government	
60	Tracy Cui	ACT Government	
61	David Kimmorley	Balmain Canberra	Partner
62	James Clarke	ACBC	CEO, WA
63	Alison	ACBC	National Executive Officer
64	Anthony	ACBC	Chair, Net Zero Working Group

Chief Minister, Treasury and Economic Development Directorate

To:	Minister for Climate Action	**Tracking No.: CMTEDD2022/1874**
Date:	23/05/2022	
Cc:	Minister for Water, Energy and Emissions Reduction	
From:	Office for Climate Action	
Subject:	Correspondence from John Colman – Neoen Goyder South Renewable Project	
Critical Date:	N/A	
Critical Reason:	Routine	

Recommendations

That you:

1. Note the information contained in this brief.

Noted / Please Discuss

Andrew Barr MLA 4/7/22

Minister's Office Feedback

Background

1. Outside Scope
2.

Issues

3. Outside Scope
4. Outside Scope

Outside Scope

Outside Scope

5. Outside Scope
6. Outside Scope
7. Outside Scope

8. Outside Scope

Outside Scope

9. Outside Scope

10. Outside Scope

11. Outside Scope

12. Outside Scope

13. Outside Scope

Outside Scope

14. Outside Scope

15.

Local ACT Renewable Energy

16. Mr Colman's correspondence suggests that electricity infrastructure should instead be built locally in the ACT.

a. The ACT sources its renewable energy from several areas. Local large-scale generators include Mugga Lane Solar Park, Williamsdale Solar Farm and Royalla Solar Farm;

b. Local small rooftop solar and medium scale generators (<200kW) come from over 30,000 ACT homes and businesses which have solar panels; and

c. The combined capacity of renewable electricity generation capacity in the ACT now exceeds 150 megawatts (MW).

17. The Big Canberra Battery project, committed to in the Parliamentary and Governing Agreement to deliver 250MW of energy storage, is also underway.

18. Outside Scope

19. Outside Scope

Financial Implications

20. Nil.

Consultation

Internal

21. Nil.

Outside Scope

22. Outside Scope

External

23. Nil.

Work Health and Safety

24. Nil.

Outside Scope

25. Outside Scope

Outside Scope

26. Outside Scope

Signatory Name:	Sam Engele	Phone:	6205 0230
Action Officer:	Natasha Wykes	Phone:	6207 2442

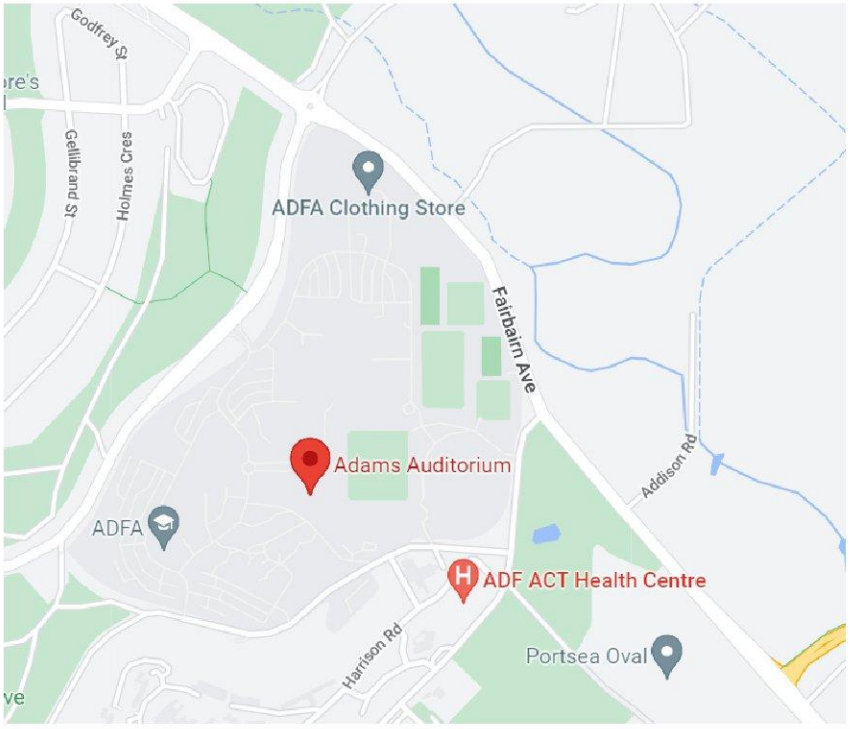
Attachments

Attachment	Title
Outside Scope	Outside Scope

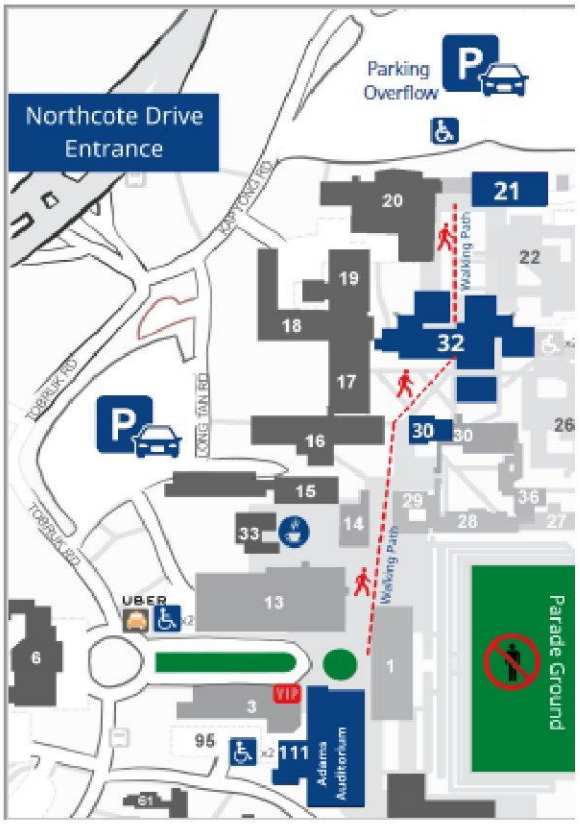
ACT Government

Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	Better Futures Australia Forum
VENUE:	Adams Auditorium, UNSW Canberra, at the Australian Defence Force Academy, Northcott Drive, Campbell ACT 2612. 
HOST:	Primary Contact: Heidi McKerrow (Event Manager) +61 422 239 291 Secondary Contact: Opal Mackenzie (Event Manager) +61 424 596 166 Event Director: Lisa Cliff, +61 429 998 315
DAY:	Tuesday
DATE:	6 September 2022
TIME:	9:20 – 10:25 am
TIME COMMITMENT:	You will deliver a 10-minute opening keynote address followed by a moderated panel discussion for 55 minutes.

Andrew Barr MLA - Arrangements brief

	Arrival is requested 15 minutes ahead of the opening address. Event organisers have been notified that you will arrive closer to 9:20am. The total time commitment is 65 minutes.
CATERING:	Tea and coffee on arrival Morning tea provided following the panel discussion
DRESS CODE:	Business
YOUR ROLE:	You will deliver a 10-minute opening keynote address followed by a moderated panel discussion on the positive role of energy storage and the need for policy settings to facilitate its rapid deployment to mitigate future energy price crises. *Available equipment* – Microphone↑Lectern↑
WHERE TO PARK:	VIP parking directly outside Adams Auditorium will be available. The parking spot will be labeled with the CM's title. 
WHO WILL MEET YOU:	The Event Coordinator Opal McKenzie, will meet you on arrival.
ADVISOR ATTENDING:	Faheem Kahn will be attending this event with you.
AUDIENCE:	This event is being held in Canberra with virtual attendance also an option. It is anticipating 500 attendees in person and an additional 500 attendees online.

Andrew Barr MLA - Arrangements brief

	The panel discussion will be moderated by Dan Ilic and will include the following panelists: • ACT CM Andrew Barr • John Grimes CEO Smart Energy Council • Lara Panjkov: Fluence • Francis Wedin, Founder of Vulcan Energy Resources • Carla Stocks: EPC Solar The Audience will be made up of industry leaders, business and members of the climate action network. It is a two day conference event.
VIPs:	• Hon Chris Bowen MP, Federal Minister for Climate Change and Energy • Hon Matt Kean MP, Treasurer and Minister for Energy, NSW (TBC) • Hon Susan Close, Deputy Premier (TBC) • Senator David Pocock • John Grimes - CEO Smart Energy Council • Francis Wedin, Founder of Vulcan Energy Resources
PAST INVOLVEMENT:	NA
SENSITIVITIES:	NA
ORDER OF CEREMONIES	This two day Conference runs from 6-7 September 2022. You will be delivering the opening address at 9:20am on Tuesday, 6 September and will then be joining a moderated panel discussion from 9:30am to 10:25 am. Name of Master of ceremonies: Dan Ilic 9:00-9:20am: MC Welcome, housekeeping and Welcome to Country by Aunty Matilda House 9:20-9:30am: CM Barr - Opening 10-minute address 9:30-10:25am: Moderated panel discussion 10:25am: Morning tea
COMMS/MEDIA: *(Before filling out this section)* *Have you spoken with the directorate Comms team?* *They will identify what channels are best to tell this story to reach target audiences and stakeholders.*	'Science in public' are organising media for the event but have not yet specified the personnel attending each session. There will be an online audience. The event organisers have prepared a 'media kit' as a resource for speakers to spread the word on their attendance at the event. https://trello.com/b/9dpX3gND/better-futures-forum-media-kit

Andrew Barr MLA - Arrangements brief

Discuss whether an advance of the location is required and any additional footage or photos of the event. *How are stakeholders being informed.*	The CMTEDD Comms team have prepared a LinkedIn post for the Chief Minister, to advertise the Better Futures Australia Forum and the initiatives the ACT have introduced to achieve net zero.
SOCIAL MEDIA ACCOUNTS	Facebook: https://www.facebook.com/betterfuturesau Twitter: https://twitter.com/betterfuturesau Linkedin: https://www.linkedin.com/company/better-futures-australia/ When posting about the forum tag with the following: @betterfuturesau #betterfuturesau #betterfuturesforum
OUTSTANDING REGULATORY ISSUES	The venue has a COVID-Safe plan. The event organisers will be encouraging participants to wear masks where they are not speaking, and will be providing hand sanitisers to support COVID-Safe arrangements.

Andrew Barr MLA - Arrangements brief

SPEAKING NOTES FOR THE BETTER FUTURES AUSTRALIA FORUM

9:20AM, 6 SEPTEMBER 2022
UNSW CANBERRA

Acknowledgements

- **Traditional owners**: I acknowledge the traditional custodians of the land we are meeting on, the Ngunnawal people. I acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.
- **VIPs:** I would like to thank Lisa Cliff, Program Director of Better Futures Australia, and her team, for hosting and organising this event, and for providing me with the opportunity to provide the opening address.
- **VIPs:** I would like to extend a warm welcome to my fellow elected officials from across the country, including the Federal Minister for Climate Change and Energy, Chris Bowen who will be attending the forum tomorrow, and other members of Parliament, fellow state and territory government representatives.
- **VIPs:** I'd also like to acknowledge all the industry leaders present here today as we come together to discuss the challenges and opportunities ahead of us in transitioning Australia to a net zero future.

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Outside Scope

- Secure and reliable energy supply is a priority for all levels of government in Australia. The ACT is leveraging the expertise of our world-class tertiary research institutes to support reliable energy storage solutions and to optimize our existing electricity network.
- The introduction of the Big Canberra Battery will provide at least 250MW of new 'large-scale' battery storage in the ACT. It is a critical initiative that will strengthen the stability of our energy grid; foster growth in the renewable energy sector and potentially provide a source of revenue for the Territory. The Integrated Energy Plan will further consider the role of energy storage and distributed energy supply in the ACT.

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

SOCIAL MEDIA POSTS FOR THE BETTER FUTURES AUSTRALIA FORUM

6 SEPTEMBER 2022
UNSW CANBERRA

LINKEDIN POST:

I am pleased to be given the opportunity today to deliver the opening address at the Better Future Australia Forum and I'm looking forward to sharing how we are leading the way to drive real action on climate change.

Here in the ACT, we have one of the most ambitious climate action agendas in the world. A combination of strong policy, government investment and regulation will lead to a sustainable, zero emissions future for the ACT. We are also enabling businesses and households with the information and support they need to make the switch to more sustainable energy sources at a time that is right for them.

Find out more about the ACT Government's climate action agenda at: www.climatechoices.act.gov.au

Chief Minister, Treasury and Economic Development Directorate

To:	Chief Minister	**Tracking No.: CMTEDD2022/2604**
Date:	04/07/2022	
CC:	Head of Service	
From:	Executive Group Manager, Policy and Cabinet	
Subject:	Meeting with Brisbane Lord Mayor, Adrian Schrinner	
Critical Date:	**11/07/2022**	
Critical Reason:	To brief you in preparation for the meeting on 12 July 2022	

Recommendations

That you:

1. Note the information contained in this brief.

Noted / Please Discuss

Andrew Barr MLA 9/7/22

Minister's Office Feedback

Background

1. Adrian Schrinner is the Lord Mayor of Brisbane, a biography is at Attachment D. The meeting has been requested to discuss the following:
   - Council of Capital City Lord Mayors (CCCLM) matters;
   - Night-time economy initiatives; and
   - COVID-19 recovery.
2. Brisbane has acted as Treasurer for the CCCLM for a number of years and is also chair of the Infrastructure and Public Transport working Group.

3. You have offered for the ACT to host a lunch or dinner for Lord Mayors on their next visit to Canberra for the CCCLM, which will likely be in September 2022.

Issues

Recent CCCLM Discussions

4. At the time of the meeting with Lord Mayor Schrinner, the last CCCLM will have been the AGM, held in Perth on 8 July 2022.

5. The meeting discussed the way forward for the CCCLM and discussed position papers for the various Working Groups that sit under the CCCLM.

6. If required, a briefing on the outcomes of the meeting with any additional decisions will be provided to you when the minutes are available.

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Back to Top

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Signatory Name:	Wilhelmina Blount	Phone:	0422 636 282
Action Officer:	Lachlan Meade	Phone:	02 6207 8518

Attachments

Attachment	Title
Attachment A	Arrangements Brief

Attachment B	Talking Points

Outside Scope

ACT Government

Andrew Barr MLA

Chief Minister

Treasurer
Minister for Climate Action
Minister for Economic Development
Minister for Tourism

Member for Kurrajong

Attachment A: ARRANGEMENTS BRIEF

FUNCTION:	Meeting with the Lord Mayor of Brisbane, Adrian Schrinner and Mr Nathan Percy, the Lord Mayor's Director of Business Engagement.
VENUE:	Level 1 City Hall 64 Adelaide Street, BRISBANE QLD 4001 Entrances are via King George Square
HOST:	Julie McIntosh, Executive Assistant to the Lord Mayor T: 3403 4702 julie.mcintosh@brisbane.qld.gov.au
DAY:	Tuesday
DATE:	12 July 2022
TIME:	10:00am
TIME COMMITMENT:	30 Minutes
WHO WILL MEET YOU:	Enter City Hall from the main entrance in King George Square where Mr Billy Peers will escort you to the Lord Mayor's office on the 1st Floor.
ADVISOR ATTENDING:	Matt Mison
OUTSTANDING REGULATORY ISSUES	There is no requirement to check in or to wear face masks, you will be socially distanced in the Lord Mayor's Lounge.

Back to Top

ACT Government

TALKING POINTS

SUBJECT: MEETING WITH BRISBANE LORD MAYOR ADRIAN SCHRINNER

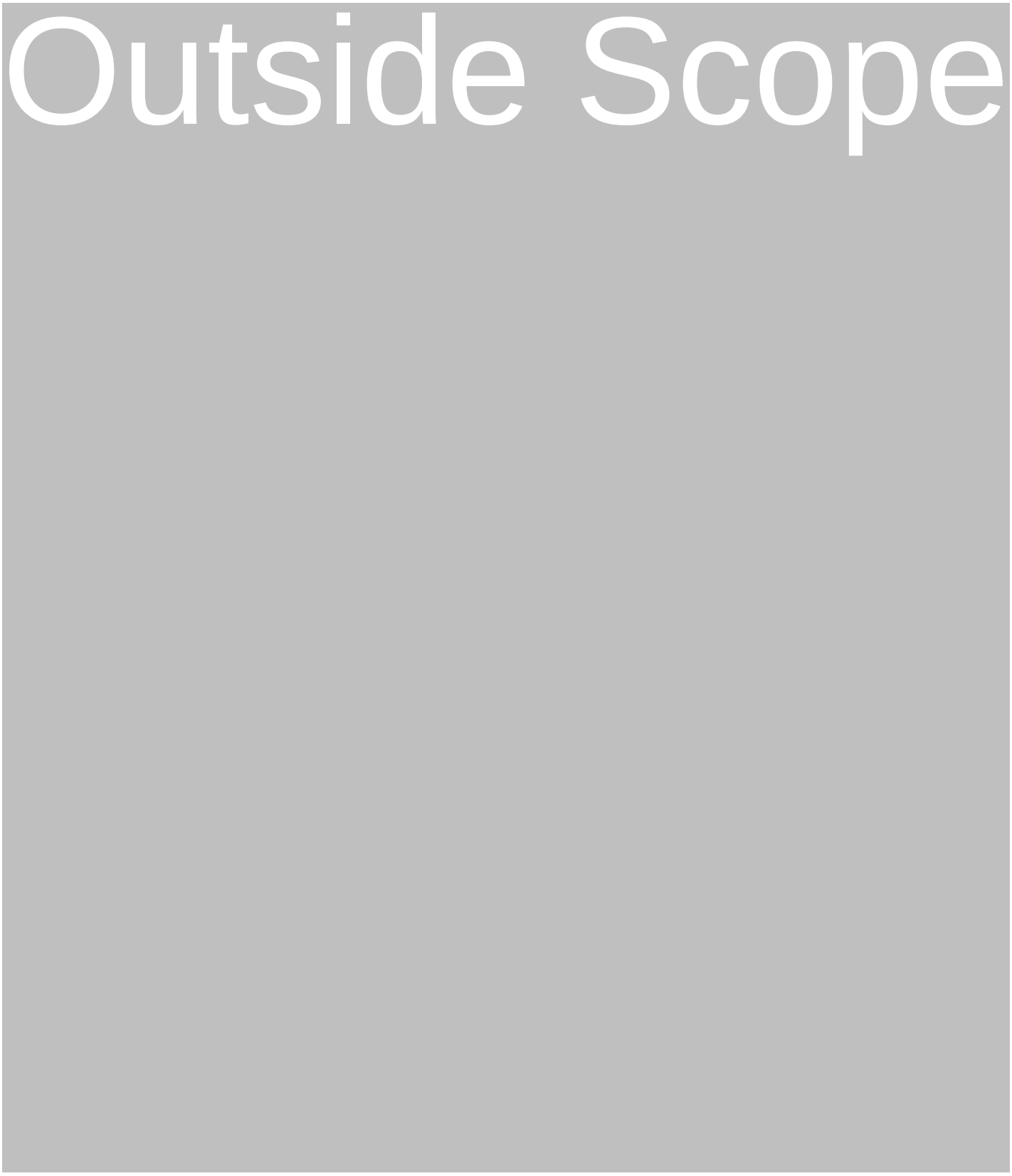
Outside Scope

Outside Scope

- A series of projects have been identified to progress these objectives. These transformative projects not only have direct benefits to the government and local businesses but create additional benefits for our community. Examples of these include the Big Canberra Battery which provides a decentralised network of community battery infrastructure Outside Scope

Outside Scope

Back to Top



Back to Top

Outside Scope

Back to Top

Outside Scope

Action Officer: Daniel Riley
Cleared by: Kate Starick and Policy and Cabinet

Back to Top

Chief Minister, Treasury and Economic Development Directorate

To:	Chief Minister	**Tracking No.: CMTEDD2022/2927**
Date:	30/06/2022	
From:	Executive Branch Manager, Social Policy	
Subject:	Meeting with Minister the Hon Lauren Moss (NT Government)	
Critical Date:	**01/01/2021**	
Critical Reason:	Meeting with Minister Moss on 1 July 2022	

Recommendations

That you:

1. Note the information contained in this brief;

Noted / Please Discuss

Andrew Barr MLA 1/7/22

Minister's Office Feedback

Background

1. You are meeting with Minister the Hon Lauren Moss from the Northern Territory Government on 1 July 2022.
2. Minister Moss is the Minister for Environment, Climate Change and Water Security; Minister for Equality and Inclusion; Minister for Mental Health and Suicide Prevention; Minister for Seniors; Minister for Youth in the Northern Territory Labor Government.

3. Outside Scope

Issues

Climate Action:

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- Investment in sustainable infrastructure, like the Big Canberra Battery, which will drive job-creation in the sector and cement Canberra's reputation as one of the most liveable and sustainable cities in the world.
    i. The Big Canberra Battery will deliver at least 250 megawatts of new 'large-scale' battery storage system capacity across the ACT. This project will not only support the Territory's efforts to reduce greenhouse gas emissions, but will also strengthen the stability of our energy grid; foster growth in the renewable energy sector; create more skilled local jobs and potentially provide a source of revenue for the Territory.
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Signatory Name:	Andrew Mehrton	Phone:	02 6205 8507
Action Officer:	Tina Connor	Phone:	02 6205 9312

OFFICIAL MINISTERIAL BRIEF

Chief Minister, Treasury and Economic Development Directorate

To:	Chief Minister	**Tracking No.: CMTEDD2022/2563**
Date:	14/06/2022	
From:	Executive Branch Manager, Business & Innovation	
Subject:	Meeting with Mike Cannon-Brookes, Co-CEO & Co-Founder, Atlassian	
Critical Date:	**14/06/2022**	
Critical Reason:	To brief you ahead of your meeting on the 15 June 2022.	

- DDG 14/06/22
- EGM 14/06/22

Recommendations

That you note the information contained in this brief.

Noted / Please Discuss

Andrew Barr MLA ……..…….. …../…../…..

Minister's Office Feedback

Outside Scope

Big Canberra Battery

11. Mr Cannon-Brookes is known for his interest in the energy transition. He has made significant investments in solar photovoltaics through the Sun Cable Australia-Asia undersea renewable electricity cable connection project with Andrew Forrest.
12. On storage specifically, Grok recently invested in Antora Energy (USA) which is electrifying heavy industry with thermal energy storage for zero-carbon heat and power.
13. We are not aware of Mr Cannon-Brookes' investment in Lithium battery technology/companies, which are those most likely to make up the large-scale component of the Big Canberra Battery.
14. Under the current Parliamentary and Governing Agreement, the ACT is committed to establishing 250MW of new storage in the ACT. This will be achieved with batteries at a range of scales, with most of that target delivered through one or two transmission scale batteries.
15. ACT Government is currently half-way through a two-stage procurement for transmission scale battery(s). Six proponents were selected to go forward to the second request or proposals stage. The second stage will open end July 2022, and close mid-October 2022. The ACT Government plans to have selected its preferred tenderer by the end of 2022 with contracts finalised early 2023.

Outside Scope

Outside Scope

Outside Scope

Signatory Name:	Ash Balaretnaraja	Phone:	x75282
Action Officer:	Callum Stringer	Phone:	x75733

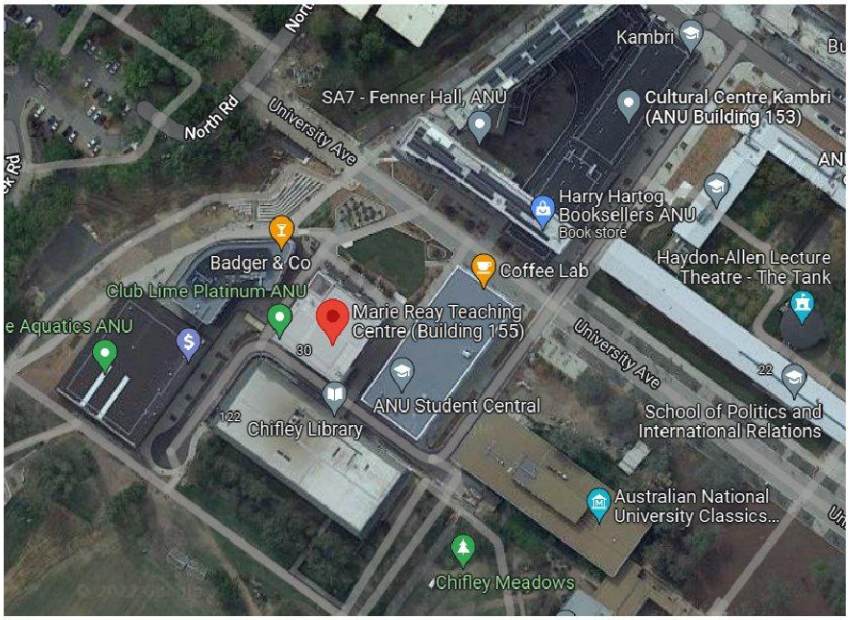
Attachments

Attachment	Title
Outside Scope	Outside Scope

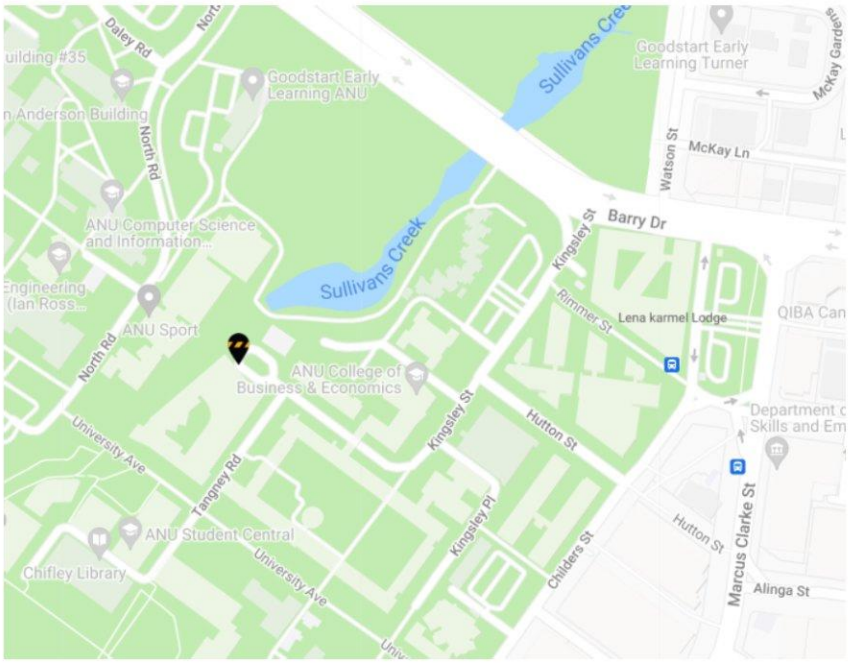
ACT Government

Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	Climate Action Network Australia (CANA), National Climate Conference: 'Power through Collaboration'
VENUE:	Room 2.02, Level 2 Marie Reay Teaching Centre, Kambri 155 University Ave, Australian National University 
HOST:	Name: Inari Saltau (CANA Operations Manager) Mobile: 0428 462 747
DAY:	Tuesday
DATE:	21 June 2022
TIME:	Arrival at 11:05am. Keynote speech at 11:20am – 11:30am. Session ends at 12:10pm.
TIME COMMITMENT:	10-minute speech to be delivered at 11:20am.
CATERING:	Information not provided.

Andrew Barr MLA - Arrangements brief

DRESS CODE:	Business
YOUR ROLE:	Keynote Speech to address CANA's National Conference.
WHERE TO PARK:	Parking is available via the carpark at the Kambri Cultural Centre, ANU. Entry is via Kingsley Street. 
WHO WILL MEET YOU:	You have been asked to contact **Inari Saltau (0428 462 747)** or **Lisa Cliff (0429 998 315)** upon arriving at the venue.
ADVISOR ATTENDING:	Faheem Khan
AUDIENCE:	Member groups of CANA will be in attendance, which is primarily comprised of climate-related community and not-for-profit organisations from across Australia. Other interested individuals may also attend.
VIPs:	Your Keynote Speech will be delivered alongside other session participants (following your speech, in order of speaking time): Lord Mayor Anna Reynolds, Minister Lily D'Ambrosio (pre-record), Senator David Pocock. Aunty Matilda House will be providing a Welcome to Country. CANA's Executive Director, Glen Klatovsky will be presenting prior to the Chief Minister's Keynote Address.
PAST INVOLVEMENT:	N/A
SENSITIVITIES:	The Chief Minister's Keynote Address will be followed by a session that addresses the 2022 Federal Election, including a discussion on bipartisanship to achieve 'real federal action on climate change'. The Speaking Notes below are designed to reflect this and align with the Ministerial Statement delivered by you on 1 June 2022 regarding the federal election's impact on the ACT.

Andrew Barr MLA - Arrangements brief

ORDER OF CEREMONIES	This three-day National Conference runs from 20-22 June 2022. You will be in attendance on Tuesday 21 June 2022. The program for this day is as follows: • 9:00am-9:15am – Welcome to Ngunnawal and Ngambri Country (Aunty Matilda House) • 9:15am-10:30am – Aboriginal and Torres Strait Islander self-determination, First Nations justice and the climate movement • 10:30am-10:55am – The CANA Network Strategy: guiding our network to 2023 (led by Acting Executive Director Glen Klatovsky and Board Members) • **11:20am-12:10pm – Keynote presentations: government action on climate change (10-minute speech by the Chief Minister, followed by other session speakers).** • 12:10pm-12:45pm – Building bipartisanship: achieving real federal action on climate change. • 12:45pm-1:20pm – Rebuilding the house panel: justice, equity, diversity and inclusion in the Australian Climate Movement • 2:20pm-5:00pm – Workshops • 6:30-8:30pm – CANA's 21st Anniversary Celebration
COMMS/MEDIA:	N/A
SOCIAL MEDIA ACCOUNTS	Twitter: https://twitter.com/CAN_Australia
OUTSTANDING REGULATORY ISSUES	Current ACT-wide COVID restrictions.

Andrew Barr MLA - Arrangements brief

SPEAKING NOTES FOR THE

Climate Action Network Australia National Climate Conference
11:20am-11:30am, Tuesday 21 June 2022
Marie Reay Building, Kambri, The Australian National University

Acknowledgements

- **Traditional owners**: I acknowledge the traditional custodians of the land we are meeting on, the Ngunnawal people. I acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

Introduction

- I am delighted to deliver the Keynote Address to the Climate Action Network Australia's National Climate Conference and to have the opportunity to showcase how the ACT Government is driving real action on climate change.
- The ACT is delivering one of the most ambitious climate action agendas in the world. Thanks to the policies of the ACT Government, and the commitment of the Canberra community, we are making good progress on our climate action ambitions.
- Our vision for Canberra is that of a vibrant, progressive, inclusive, innovative and sustainable city where all can share in the benefits of a zero-emissions future.

Driving Global Ambition through Collaboration

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Outside Scope

Outside Scope

- The Big Canberra Battery is another critical initiative that will deliver at least 250 megawatts of new 'large-scale' battery storage system capacity across the ACT. This project will strengthen the stability of our energy grid; foster growth in the renewable energy sector and potentially provide a source of revenue for the Territory.
- Investment in sustainable infrastructure, like the Big Canberra Battery, will drive job-creation in the sector and cement Canberra's reputation as one of the most liveable and sustainable cities in the world.
- There is now an incredible opportunity to collaborate on delivering zero emissions energy to Canberrans. The incoming Federal Government wants to deliver three community batteries across our suburbs – complementing the work underway at a Territory level to deliver the Big Canberra Battery.

Andrew Barr MLA - Arrangements brief

Outside Scope

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Outside Scope

ACT Government

Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	Canberra Economic Advisory Group (CEAG) Preview of Canberra Switched On – ACT'S Economic Development Priorities 2022-2025.
VENUE:	Level 5, 220 London Circuit, Canberra City.
HOST:	Name: Kareena Arthy Mobile: 0434 563 274
DAY:	Tuesday.
DATE:	15 March 2022.
TIME:	5:15pm – 6:30pm.
TIME COMMITMENT:	5:30pm to 6:00pm.
CATERING:	Selection of Canberra beverages, cheese biscuits and fruits.
DRESS CODE:	Business.
YOUR ROLE:	Speech (Attachment A) – to CEAG members, providing a preview of Canberra Switched On – ACT'S Economic Development Priorities 2022-2025 which you will be publicly releasing on 16 March 2022.
WHERE TO PARK:	Basement level carpark – 220 London Circuit, Canberra City.
WHO WILL MEET YOU:	Jonathan Kobus - Foyer 220 London Circuit, Canberra City.
ADVISOR ATTENDING:	Yes – Matt Mison.
AUDIENCE:	7 members of CEAG will be attending along with approximately 5 CMTEDD officials. Following the preview presentation drinks and networking will occur on the level 5 balcony.
VIPs:	CEAG members: • Mr Stephen Bartos • Ms Hala Bataina • Professor Paddy Nixon • Ms Zoe Piper • Dr Michael Schaper (TBC) • Professor Helen Sullivan

Andrew Barr MLA - Arrangements brief

	• Mr Alan Tse • Mr Nick Tyrrell
PAST INVOLVEMENT:	The Chief Minister has previously met with CEAG in March 2021 and April 2021. The group is made up of eminent members of Canberra and were appointed by Cabinet to provide economic advice to Government. The group have made a significant contribution to the development of the Canberra Switched On – ACT'S Economic Development Priorities 2022-2025 document.
SENSITIVITIES:	None.
ORDER OF CEREMONIES	Name of Master of Ceremonies – Kareena Arthy 5:15pm: CEAG members arrive and are escorted to Level 5. 5:25pm: Chief Minister Arrives and is escorted to Level 5. 5:30pm: Attendees move into conference room 5.02. Chief Minister presents preview of Canberra Switched On – ACT'S Economic Development Priorities 2022-2025. 5:50pm: Chief Minister networks with Members of CEAG, thanks them for their support in developing the priorities. 6:00pm: Chief Minister leaves event 6:30pm: Event concludes
COMMS/MEDIA:	Economic Development Communications Team have developed the presentation and speech for the event on 16 March 2022. The preview presentation for CEAG members is based on this presentation (Attachment B).
SOCIAL MEDIA ACCOUNTS	None required.
OUTSTANDING REGULATORY ISSUES	The event will conform with COVID safe plans for 220 London Circuit and ACT Public Service.

Andrew Barr MLA - Arrangements brief

Attachment A

SPEAKING NOTES FOR THE CEAG PREVIEW- CANBERRA SWITCHED ON - ACT'S ECONOMIC DEVELOPMENT PRIORITIES

5:30PM, TUESDAY, 17 MARCH
LEVEL 5, 220 LONDON CIRCUIT CANBERRA CITY.

Acknowledgements

- Traditional owners: I acknowledge the traditional custodians of the land we are meeting on, the Ngunnawal people. I acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

I would like to start by thanking everyone in this room for their efforts, innovative ideas, guidance, and direction in developing *Canberra Switched On – ACT'S Economic Development Priorities 2022-2025.*

Today is a preview of the document prior to its public release tomorrow at the Committee for Economic Development of Australia. Some of you may be in attendance at that event. An advance release copy of the document has been provided to you tonight. I ask that do not distribute the document until after its release tomorrow.

As you would recall, I established the Canberra Economic Advisory Group to bring together economists, industry representative, community sector partners and unions to provide advice on a range of topics including opportunities and actions to support growth and resilience in the ACT economy.

Outside Scope

Andrew Barr MLA - Arrangements brief

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Andrew Barr MLA - Arrangements brief

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Outside Scope

Transformative Projects – Mission 2

Under this mission we will progress the following projects:

Zero emission homes and communities

Our Big Canberra Battery project provides a decentralised network of community battery infrastructure. This, along with incentives to remove gas from homes and reduce transport emissions, gives Canberra an opportunity to pilot world-first decarbonised suburbs.

This investment could lead to savings that will support more public and community infrastructure.

We will show the world that decarbonisation can be achieved while creating jobs and saving money.

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Chief Minister, Treasury and Economic Development Directorate

To:	Minister for Climate Action	**Tracking No.: CMTEDD2022/660**
Date:	21/02/2022	
From:	Office for Climate Action	
Subject:	Meeting with Ben Oquist (Executive Director, The Australia Institute) and Saul Griffith (Entrepreneur)	
Critical Date:	24/02/2022	
Critical Reason:	You are meeting with Mr Oquist and Mr Griffith on Thursday, 24 February 2022 from 11:45am-12:30pm at East Row Specialty Coffee	

Recommendations

That you:

1. Note the information contained in this brief.

Noted / Please Discuss

Andrew Barr MLA ..../...../.....

Minister's Office Feedback

Background

1. You are meeting with Ben Oquist and Saul Griffith for coffee on Thursday, 24 February 2022 from 11:45am-12:30pm at East Row Specialty Coffee.

2. You will be accompanied by your advisors, Michael Cook and Faheem Khan for this meeting.

3. It is understood this meeting will largely focus on the recently published book by Saul Griffiths, *The Big Switch: Australia's electric future.*

Issues

4. Ben Oquist is Executive Director of The Australia Institute and is a respected policy analyst and commentator. He has been involved in clean energy investment, including work on the Clean Energy Finance Corporation, the Australian Renewable Energy Agency and the Renewable Energy Target.

5. The Australia Institute has produced policy analysis in the renewable energy space, particularly at the federal level with a focus on coal and gas industries.

    a. Recently, the Australia Institute hosted a webinar titled 'Electrify Everything' which featured Saul Griffith. This webinar discussed an entirely electric pathway as the quickest route to decarbonisation in Australia.

6. Saul Griffith is an entrepreneur and has been heavily engaged in climate change research and innovation for over ten years, with a particular focus on technology driven solutions.

7. Earlier this month, Saul published the book *The Big Switch: Australia's electric future*.

    a. This book advocates for complete electrification to decarbonise Australia's energy mix and sets out a 'blueprint' to achieving this. It considers topics including the transformation of infrastructure, updating the electricity grid, and adapting households and communities to a full electrification pathway.

    b. Earlier this month, Saul wrote an article published in *The Financial Review*, claiming that electrification of households, powered by renewables, can halve energy use and cut living costs in addition to eliminating most emissions. The article also suggests that while finance products are available on the market, an electric transition is not yet affordable to everyone.

    c. Saul advocates that alternative energy sources are likely only to be viable in certain instances. For example, biofuels have limited feedstock but will be useful for aviation and fuel, and hydrogen will likely be used in end-industries, such as ammonia for agriculture.

8. Saul has also founded a number of other technology companies including Otherlab, a research and development lab that aims to support governments and companies understand energy infrastructure and decarbonisation.

Energy decarbonisation in the ACT

9. The ACT Government is committed to driving innovation across the energy and transport sectors, supporting businesses and households to save on their energy costs, reduce emissions and take advantage of new technologies.

10. The ACT is committed to achieving net zero emissions by 2045. In 2020, the ACT Government became the first Australian jurisdiction to shift to 100 per cent renewable electricity which has been maintained since.

11. In 2020-21, greenhouse gas emissions in the ACT fell 45 per cent from the 1989-90 baseline year, exceeding the 40 per cent target. This equates to 3.8 tonnes carbon dioxide equivalent emissions per person, significantly lower than any other Australian state or territory with the exception of Tasmania. For this same period:

    a. Transport contributed 63.5 per cent of total ACT emissions;

    b. Natural gas emissions represented 22 per cent of total ACT emissions; and

    c. There was a 12.4 per cent increase in rooftop solar PV for systems less than 200kW.

12. The ACT Government has committed to a range of initiatives to reduce emissions in the ACT, support the household and business transition and increase the uptake of zero emission vehicles (ZEVs). Measures include:

d. Committing $100 million over five years to deliver the Big Canberra Battery, which will provide 250MW of power with the aim to reduce pressure on the grid, put downward pressure on electricity prices in the ACT as more households in the ACT move to renewable energy and electric vehicles, and generate new revenue opportunities for the ACT.

Out of scope

Out of scope

Financial Implications

17. Nil.

Consultation

Internal

18. Nil.

Cross Directorate

19. Nil.

External

20. Nil.

Work Health and Safety

21. Nil.

Benefits/Sensitivities

22. Nil.

Communications, media and engagement implications

23. Ben Oquist can be contacted via mobile on Sch 2.2(a)(ii)

Out of scope

Signatory Name:	Sam Engele	Phone:	6205 0230
Action Officer:	Natasha Wykes	Phone:	6207 2442

ACT Government

Member for Kurrajong

Attachment A: ARRANGEMENTS BRIEF

FUNCTION:	Australian Electric Vehicle Association Annual Conference
VENUE:	Online Webinar Event
HOST:	Name: John F. Harris (Conference Convenor) Mobile: 0409 161 062
DAY:	Wednesday
DATE:	8 December 2021
TIME:	N/A – Your speech and Q+A is to be pre-recorded on Friday 3 December
TIME COMMITMENT:	40 minutes
CATERING:	N/A
DRESS CODE:	Business
YOUR ROLE:	Keynote Speech – duration of commitment is 40 minutes, comprising a 20-minute pre-recorded speech (attached to this brief) and 20 minutes for questions (Q&A responses are being prepared separately by your Office).
WHERE TO PARK:	N/A
WHO WILL MEET YOU:	N/A
ADVISOR ATTENDING:	N/A
AUDIENCE:	Audience will be comprised of AEVA Members across Australia.
VIPs:	N/A
PAST INVOLVEMENT:	You have previously responded to correspondence from the AEVA President and Secretary on 14 January 2021 (CM21/2285). • This correspondence was in response to a query from AEVA on electric vehicles (EV) and an EV specific policy on road user charging in the ACT.

Andrew Barr MLA - Arrangements brief

	You also launched the *Cut Emissions Go Electric Project* on 19 May 2021 with Adele Craven, Events Coordinator at AEVA (CM21/27931).
SENSITIVITIES:	N/A
ORDER OF CEREMONIES	Recording of Speech: Friday 3 December 2021 • Pre-recorded transcript: 20 minutes (attached) • Pre-recorded Q&A: 20 minutes (to be provided by your Office) Speech presented at AEVA Conference: Wednesday 8 December 2021
COMMS/MEDIA:	N/A
SOCIAL MEDIA ACCOUNTS	Facebook: https://www.facebook.com/AEVANational/ Twitter: https://twitter.com/AEVA_National
OUTSTANDING REGULATORY ISSUES	N/A

Andrew Barr MLA - Arrangements brief

SPEAKING NOTES FOR THE AUSTRALIAN ELECTRIC VEHICLE ASSOCIATION ANNUAL CONFERENCE

Wednesday 8 December 2021
Online

Hello all. Thank you for the opportunity to present the keynote speech for the Association's Annual Conference.

[Acknowledgements]

- **Traditional owners**: I acknowledge the traditional custodians of the lands we are meeting on. I am speaking to you from the lands of the Ngunnawal people and acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region. I also acknowledge and pay my respects to any Aboriginal and Torres Strait Islander people who are listening in today.

Outside Scope

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

Andrew Barr MLA - Arrangements brief

Windfarm and battery storage giants Global Power Group (GPG) and Neoen have both located their Australian headquarters in Canberra, while renewables developers CWP Renewables and Windlab are also headquartered in Canberra.

We continue to attract investment and promote research into renewables through support to tertiary institutions like the Australian National University's Battery Storage and Grid Integration Program, which is leading innovation in energy storage for renewable generation. Collaborations with tertiary institutions with world-class research capabilities and experience in clean energy technology, drives our transition to a net-zero future in a way that could not be achieved by government policy alone.

Similarly, our engagement with private sector partners, such as our collaboration with Neoen, ActewAGL and Hyundai to launch the ACT's first public Hydrogen Refuelling Station, demonstrates our commitment to working with industry to lead the transition to a net zero emissions future.

Beyond this, the ACT Government is investing $100 million over the next five years to deliver the Big Canberra Battery. The 'large scale' battery ecosystem will provide 250MW of battery storage capacity across the ACT with the aim of reducing pressure on the electricity grid, fostering growth in the renewable energy sector and generating new revenue opportunities for the ACT.

The global battery storage market is predicted to be worth $400 billion by 2030, and high interest in the ACT's battery project will ensure the nation's capital remains at the forefront of a booming industry. Renewable energy jobs are sustainable and innovative – they are the jobs of the future. By taking real action on climate change, and attracting private sector investment, we are ensuring Canberrans are in a strong position to compete for these jobs.

Outside Scope

Andrew Barr MLA - Arrangements brief

Outside Scope

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Andrew Barr MLA - Arrangements brief

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Andrew Barr MLA - Arrangements brief

Outside Scope

ACT Government

Andrew Barr MLA

Chief Minister

Treasurer
Minister for Climate Action
Minister for Economic Development
Minister for Tourism

Member for Kurrajong

Attachment A: ARRANGEMENTS BRIEF

FUNCTION:	The Global Race to Zero Summit will be delivered online in partnership with the UN's Race to Zero Campaign and will be supported by the Lord Mayor's Charitable Foundation. It is being held 10 days before the G20 meeting in Rome and in the lead up to the COP26 meeting in Glasgow and is a deliberate attempt to both increase pressure on the Australian Government to increase its climate action ambitions and to provide opportunities for governments and companies to outline their climate and renewable energy commitments. The Summit will particularly focus on the economic and employment opportunities from taking action on climate change and investing in renewable hydrogen and ammonia.
VENUE:	The event will be held virtually.
HOST:	Smart Energy Council and Hydrogen Australia **Contact Name:** Wayne Smith, External Affairs Manager at the Smart Energy Council **Mobile:** Sch 2.2(a)(ii)
DAY:	Thursday
DATE:	21 October 2021
TIME:	10.00am-1.00pm
TIME COMMITMENT:	10-minute pre-recorded message. Richard Fox will organise a time with you to record the video.
CATERING:	NA

Andrew Barr MLA - Arrangements brief

DRESS CODE:	Business
YOUR ROLE:	Keynote Speech – up to 20 minutes for a pre-recorded message at this event.
WHERE TO PARK:	NA
WHO WILL MEET YOU:	NA
ADVISOR ATTENDING:	NA
AUDIENCE:	The event is free and will be held online. It will be similar in format to last year's hugely successful online Global Smart Energy Summit, which attracted almost 7,000 registrations from over 60 countries.
VIPs:	John Grimes – Chief Executive of the Smart Energy Council The Summit will include political, business, community and climate action leaders from across Australia and the world. Other key speakers in your session include: Hon Chris Bowen MP, Shadow Minister for Climate Change and Energy Hon. Lily D'Ambrosio MP, Victorian Minister for Energy, Environment and Climate Change, Minister for Solar Homes A full list of speakers is available here.
PAST INVOLVEMENT:	NA
SENSITIVITIES:	NA
ORDER OF CEREMONIES	NA – The CM has agreed to pre-record a message for this event.
COMMS/MEDIA:	CMTEDD Communications and Engagement will work with your office directly on social media requirements and footage needed for the video.
SOCIAL MEDIA ACCOUNTS	**Facebook** @AustSmartNRG **Twitter** @SmartEnergyCncl **Instagram** @smartenergycouncil **LinkedIn** Smart Energy Council
OUTSTANDING REGULATORY ISSUES	N/A - The event is taking place online and therefore WH&S considerations are minimal and COVID-19 is not an issue.

Andrew Barr MLA - Arrangements brief

SPEAKING NOTES FOR THE CHIEF MINISTER

The Global Race to Zero Summit
10-12pm, Thursday 21 October 2021
Virtual Event

Acknowledgements

- **Traditional owners**: I acknowledge the traditional custodians of the land I am joining you from today, the Ngunnawal people. I acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.
- MPs
  - Hon Chris Bowen MP, Shadow Minister for Climate Change and Energy
  - Hon. Lily D'Ambrosio MP, Victorian Minister for Energy, Environment and Climate Change, Minister for Solar Homes

Andrew Barr MLA - Arrangements brief

Outside Scope

Outside Scope

- The ACT Government has provided direct support to the ANU to establish the Battery Storage and Grid Integration Program, to lead research and innovation around energy storage for variable renewable electricity generation sources.
- As more households in the ACT take up rooftop solar, the electricity grid is managing large reverse power flows, increased variability in demand and difficult questions around how this evolving energy market should be priced.
- The Battery Storage and Grid Integration Program is breaking new ground in designing and implementing a resilient energy system under these shifting dynamics, where decentralised networks can meet user needs.
- The program is also looking at the challenges associated with energy storage, potential opportunities associated with zero emissions vehicles and the importance of equal access to low-cost energy across the community.
- The ACT Government is already leveraging this expertise to support a new ‘large-scale’ battery storage of at least 250MW to be distributed across the ACT.
- The big battery will reduce pressure on the grid, put downward pressure on electricity prices in the ACT as more households in the ACT move to renewable energy and electric vehicles, and generate new revenue opportunities for the ACT.
- The global battery storage market is predicted to be worth $400 billion by 2030 and the ACT's investment of $100 million in the battery project will ensure the ACT remains at the forefront of a booming industry - supporting new jobs in emerging industries.

Outside Scope

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Outside Scope

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Outside Scope

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Outside Scope

ACT Government

Andrew Barr MLA 513

Chief Minister
Treasurer
Minister for Social Inclusion and Equality
Minister for Tourism and Special Events
Minister for Trade, Industry and Investment
Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	Discussion with the CEO of Energy Networks Australia (ENA)
VENUE:	Webex
HOST:	Andrew Barr
DAY:	Wednesday
DATE:	14 July 2021
TIME:	10.00am – 10.30am
TIME COMMITMENT:	30 minutes
CATERING:	N/A
DRESS CODE:	Business
YOUR ROLE:	Host
WHERE TO PARK:	N/A
WHO WILL MEET YOU:	N/A
ADVISORS ATTENDING:	Mr Faheem Kahn
ATTENDEES:	**ACT Government:** • Andrew Barr, Chief Minister **Energy Networks Australia:** • Andrew Dillon, Chief Executive Officer • Ben Wilson, Chair **Directorate Representatives:** Economic and Financial Group • Kim Salisbury, A/Executive Group Manager Policy and Cabinet Division • Sam Engele, Climate Action Coordinator General

ACT Legislative Assembly
London Circuit, Canberra ACT 2601, Australia GPO Box 1020, Canberra ACT 2601, Australia
Phone +61 2 6205 0011 **Fax** +61 2 6205 0157 **Email** barr@act.gov.au
@ABarrMLA AndrewBarrMLA actchiefminister
CANBERRA

VIPs:	N/A
TRANSPORT ARRANGEMENTS:	N/A
PAST INVOLVEMENT:	The ENA wrote to you on 16 April 2021 requesting a meeting to discuss electricity price rises, the future of gas, and the role of batteries. The ENA is the national industry body representing Australia's electricity transmission and distribution and gas distribution networks. It advocates for policy and regulatory settings that benefit its members, such as continued use of gas infrastructure while achieving carbon neutrality. Evoenergy, the ACT's electricity distributor, is an ENA member.
SENSITIVITIES:	N/A
MEETING TOPICS:	**Electricity price rises** The ENA may share views on the recent fall in wholesale electricity prices, the extent that this will last, and potential directions for the market. **The future of gas** The ENA considers that net-zero emissions can be reached with hydrogen at half the cost of electrification. They are likely to advocate the use of hydrogen in the gas network in a transition away from fossil fuel gas. The ACT is open to trialing the injection of zero emission gas alternatives into the gas network in the future as the technology develops. **The role of batteries** The ENA supports innovation in technology and published a 2020 Network Innovation Report that outlines various benefits of battery storage systems and technologies. The government wants to ensure that we use batteries as strategically as possible taking into consideration the best locations in terms of the network use and capacity. You may wish to seek ENA's views on what models might be most appropriate for the ACT and lessons learnt in other jurisdictions.
ATTACHMENTS:	Outside Scope Attachment C - Details on the Role of Batteries
MEDIA:	No media release required
SOCIAL MEDIA ACCOUNTS:	Not available
OUTSTANDING REGULATORY ISSUES:	Nil

Outside Scope

Outside Scope

Battery Projects in the ACT

- The ACT is taking a leading role in trialling and rolling out battery storage to help the ACT transition to achieve net zero emissions by 2045 and to support energy grid security.
    - The Government has committed $100 million over 5 years for the Big Canberra Battery project to deliver at least 250MW of new battery storage distributed across the ACT.
    - The Government is also encouraging the take-up of home batteries and will shortly be rolling out the Sustainable Household Scheme.
    - Further information on the battery projects in the ACT is at Attachment C.
- You could seek ENA's views on what battery models would be most appropriate for the ACT and the key lessons learnt in other jurisdictions.

ACT Government

Andrew Barr MLA

Chief Minister

Treasurer
Minister for Climate Action
Minister for Economic Development
Minister for Tourism

Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	Meeting with Ian Learmonth, Chief Executive Officer of the Clean Energy Finance Corporation
VENUE:	Chief Minister's Office
HOST:	**Name:** Ian Learmonth **Contact:** Mr Nick Williams – CEFC Director of Government and Stakeholder Relations – nick.williams@cefc.com.au
DAY:	Thursday
DATE:	08 April 2021
TIME:	2:00 – 2:30pm
TIME COMMITMENT:	30 minutes
CATERING:	N/A
DRESS CODE	N/A
YOUR ROLE:	You will be meeting with Mr Learmonth, the CEO of CEFC. Mr Learmonth would like to brief you on current CEFC engagement and activities within the ACT.
WHERE TO PARK:	N/A
WHO WILL MEET YOU:	N/A
ADVISOR ATTENDING:	Faheem Khan

Andrew Barr MLA - Arrangements brief

AUDIENCE:	N/A
VIPs:	N/A
PAST INVOLVEMENT:	The Office of Climate Action met with CEFC representatives on 25 March 2021 for an initial discussion on opportunities to partner on the delivery of climate action commitments. Following on from this meeting, CEFC expressed interest in further exploring opportunities to partner on the following: • Big Canberra Battery • Zero emissions vehicle (ZEV) initiatives. • The Sustainable Household Scheme.
SENSITIVITIES:	N/A
ORDER OF CEREMONIES	N/A
COMMS/MEDIA:	N/A
SOCIAL MEDIA ACCOUNTS	N/A
OUTSTANDING REGULATORY ISSUES	N/A

Andrew Barr MLA - Arrangements brief

BACKGROUND AND TALKING POINTS

TALKING POINTS

Overview

- The ACT Government has committed to an ambitious agenda for climate action in the Parliamentary and Governing Agreement for the 10th Legislative Assembly (PAGA), and would welcome opportunities to explore the delivery of these commitments with CEFC.

- The ACT Government understands that CEFC is particularly interested in exploring opportunities relating to the Big Canberra Battery, Outside Scope

Big Canberra Battery

- The ACT Government has committed funding of $100m over 5 years to support delivery of the Big Canberra Battery.

- Benefits that the Big Canberra Battery is anticipated to deliver includes improved grid reliability and stability, downward pressure on prices for electricity consumers, enhanced reputation as the 'clean energy capital', Outside Scope

- Options for implementing the Big Canberra Battery are still being explored.

    - Market sounding and EOI processes commenced in December 2020 and are anticipated to be completed by June 2021.

    - The Big Canberra Battery may deliver a number of batteries across the ACT, such as large-scale transmission connected batteries, smaller 'suburb-scale' batteries, and facility batteries at government sites like bus depots.

    - There are several proposals for large scale battery energy storage in the ACT progressing at the moment. Opportunities to work with these battery providers would also be considered given potential risks with rolling out the Big Canberra Battery such as limited site availability in the ACT.

- The ACT Government understands that CEFC has worked on several battery projects including Hornsdale. We would be interested in CEFC's insights from these projects and their implications for rollout of the Big Canberra Battery project.

Outside Scope

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Outside Scope

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Outside Scope

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Outside Scope

ACT Government

OFFICIAL MINISTERIAL BRIEF

Chief Minister, Treasury and Economic Development Directorate

To:	Chief Minister	**Tracking No.: CMTEDD2021/549**
Date:	16/03/2021	
CC:	Click here to enter text.	
From:	Executive Branch Manager, Social Policy	
Subject:	Meeting with PwC to discuss Government priorities	
Critical Date:	17/03/2021	
Critical Reason:	The meeting is scheduled for 18 March 2021.	

Recommendations

That you:

1. Note the information contained in this brief;

Noted / Please Discuss

2. Note:
   a. Outside Scope
   b.

Noted / Please Discuss

Andrew Barr MLA ..../...../.....

Minister's Office Feedback

Background

1. Outside Scope
2.

Issues

3. Outside Scope

Outside Scope

4. Outside Scope
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The Big Battery

41. The ACT Government committed in the Parliamentary and Governing Agreement of the 10th Legislative Assembly to delivering a Big Canberra Battery of at least 250MW of new 'large-scale' battery storage.

42. The Big Canberra Battery will involve a distributed network of batteries that will be built around the city.

43. The Government will invest $100 million over the next five years to deliver the Big Canberra Battery, including $1.8 million in 2020-21 and 2021-22 to undertake detailed design work for the project, with construction expected to commence in 2022-23. Other than the intent to commence a market sounding process in 2020-21, the Government has not given any public indication of the timing or steps involved in delivering the project.

44. A project team, overseen by the Office for Climate Action, will be established to work through this significant and complex project. The ACT Government will work closely with experts in the field and engage specialist technical advisory services.

45. A range of approaches and ownership models will be considered in the development of the design brief and business case. Market sounding and an expression of interest process will commence in 2021.

46. The Environment, Planning and Sustainable Development Directorate (EPSDD) has engaged with the ACT Government Solicitor and Procurement ACT, to commence the development of probity and procurement plans for the Big Battery. When these plans are developed, Coordinator General Climate Action intends to approach the market for consultancy services.

47. PwC suggests using its integrated advisory team to assist procurement for this project. This team advised the SA Government on procurement for its 100MW lithium-ion battery and includes tax, legal, and transactions experts. PwC can provide a page of further information upon request.

48. The ACT Government will require some consultancy services as described by PwC for the Big Battery. It is expected that these services will primarily be required during 2021-22.

49. Similar services have been provided for past ACT renewable electricity auctions, to assess technical and financial elements of large-scale energy projects. PwC has not previously quoted for or delivered these services, but PwC has similar capabilities to a number of previous auction consultants.

50. CMTEDD/EPSDD is collating a list of parties that have expressed interest in working on the battery project in any capacity. As PwC has expressed interest in working on this project, their details have been added to this list.

Outside Scope

51. Outside Scope

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55. Outside Scope

Outside Scope

56. Outside Scope

Outside Scope

Internal

57. Policy and Cabinet, incorporating the Office for Climate Action provided input regarding the Big Canberra Battery project.

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Outside Scope

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Outside Scope

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Outside Scope

65. Outside Scope

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67. Outside Scope

Communications, media and engagement implications

68. Nil.

Signatory Name:	Andrew Mehrton	Phone:	6205 8507
Action Officer:	Sabrina Paul	Phone:	5124 9907

Attachments

Attachment	Title
Attachment A	Outside Scope
Attachment B	Outside Scope
Attachment C	Outside Scope

MINISTERIAL BRIEF

Chief Minister, Treasury and Economic Development Directorate

UNCLASSIFIED

To:	Chief Minister	**Tracking No.:** CMTEDD2021/194
Date:	20 January 2021	
From:	Executive Group Manager, Corporate	
Subject:	Changes to Accountability Indicators and Half Yearly Performance Reporting in the 2020-21 Chief Minister, Treasury and Economic Development Directorate Budget Statement	
Critical Date:	24 January 2021	
Critical Reason:	To ensure printing deadlines for the Budget Statement can be met	

- DG 20/1/21

Recommendations
That you:

1. That you, as both portfolio Minister/Treasurer and Chief Minister, agree to the proposed 2020-21 accountability indicators and half yearly performance reporting for inclusion in the CMTEDD Budget Statement (Attachment A), noting that all portfolio Ministers must also approve.

Agreed / Not Agreed / Please Discuss

Andrew Barr MLA ……/…../…..

Minister's Office Feedback

Background

1. As part of the Budget process, directorates are required to obtain their Minister's and the Treasurer's approval of changes to accountability indicators.

2. All business units were asked to review existing accountability indicators relevant to their responsibilities. As part of their review, business units were asked to update output descriptions as appropriate, set new targets for the 2020-21 financial year and recommend new or discontinued accountability indicators.

3. In addition to setting out the accountability indicators for 2020-21, this Budget Statement also includes half yearly performance reporting. The Half Yearly Performance Report would normally be a separate report tabled in the Legislative Assembly by 14 February each year. Due to the Budget timing, this reporting has been combined with the existing accountability indicator tables in the Budget Statement.

4. The ACT Audit Office will perform an interim audit of the half yearly performance reporting contained in the Budget Statement, and a full audit of the accountability indicator information in the Statement of Performance following the end of the 2020-21 financial year.

5. The Half Yearly Performance Report is typically approved by you as Chief Minister, and all relevant portfolio Ministers.

Issues

6. The full output and accountability indicator section for inclusion in the CMTEDD Budget Statement is included at Attachment A. Content differing from the 2019-20 Budget Statement (including new or discontinued accountability indicators or amended targets) and any material variances (5 per cent or more from the target) is highlighted for your reference. Attachment B summarises all changes and material variances.

Output descriptions

7. The first part of Attachment A sets out the directorate's output classes and includes a description of each output.

8. All output classes remain the same as in the 2019-20 Budget, except for the renaming of Output Class 8 – Infrastructure Finance, Capital Works and Procurement. This output class was renamed Infrastructure Finance and Procurement through a notifiable instrument in December 2019, reflecting the transfer of functions and relevant accountability indicators to Major Projects Canberra.

9. Some output descriptions have been updated to reflect the current functions of each output.

Accountability Indicators

10. The second part of Attachment A sets out the directorate's proposed 2020-21 accountability indicators for inclusion in the Budget Statement.

11. Where an indicator has changed from the 2019-20 Budget (i.e. a new target, a new indicator or a discontinued indicator) this has been highlighted.

12. Accountability indicators relevant to the Territory Banking Account, Superannuation Provision Account, Lifetime Care and Support Fund and Public Sector Workers Compensation Fund are also included with CMTEDD's accountability indicators for ease of review. These accountability indicators will be included in each entity's relevant chapter in the final Budget Statement.

13. Additional background information about the Lifetime Care and Support Fund and its reporting is included at Attachment B.

Half Yearly Performance Reporting

14. Half yearly performance reporting contained in the accountability indicator tables provides an update on the directorate's progress towards achieving its full year accountability indicator targets.

15. Where accountability indicators have year-to-date (YTD) targets, the result as at 31 December 2020 has been reported.

16. Explanations are provided for any material variances (five per cent or greater between YTD targets and results). Attachment B contains a summary of all material variances.

Ministerial Agreement

17. The draft Budget Statement has been sent to all Ministers with Portfolio responsibilities within CMTEDD, seeking their agreement to accountability indicator changes relating to their responsibilities. Portfolio Ministers are also being asked to approve the relevant parts of half yearly performance reporting.

18. As noted above, your agreement as Treasurer and Chief Minister is also required.

Financial Implications

19. The total cost and controlled recurrent payments section of the accountability indicator tables will be provided by Strategic Finance and added to the Budget Statement prior to publication.

Consultation

Internal

20. The draft Budget Statement at Attachment A has been prepared with input from across the directorate. Treasury stream content has been cleared by the Under Treasurer and the Director-General has cleared all attached content.

Cross Directorate

21. Nil response.

External

22. Nil response.

Work Health and Safety

23. Nil response.

Benefits/Sensitivities

24. Nil response.

Communications, media and engagement implications

25. Nil response.

Signatory Name:	Robert Wright	Phone:	
Action Officer:	Corinne Thompson	Phone:	#73743

Attachments

Attachment	Title
Attachment A	CMTEDD Accountability indicators for 2020-21 Budget Statement (including Territory Banking Account, Superannuation Provision Account, Lifetime Care and Support Fund and Public Sector Workers Compensation Fund)
Attachment B	Summary of changes and variances

Attachment A – Output Classes and Accountability Indicators

Output Class 1: Government Strategy

Output 1.1: Government Policy and Reform

Table 21: Accountability Indicators Output 1.1

		2020-21 Targets	2020-21 YTD Targets	2020-21 YTD Result	Variance (%)
a.	Whole of government policy and project initiatives	3	N/A	N/A	N/A
b.	Regional partnerships and participation	2	N/A	N/A	N/A
c.	Support for National Cabinet, NFRC, CAF and CCCLM	4	N/A	N/A	N/A
d.	Government Progress Report	1	N/A	N/A	N/A
e.	Cabinet and Assembly Support	2	N/A	N/A	N/A
f.	Regulatory and process reform initiatives	2	N/A	N/A	N/A
g.	Climate action reform initiatives	3	N/A	N/A	N/A
Total Cost ($'000)					
Controlled Recurrent Payments ($'000)					

Out of scope

coordinating the delivery of the Government's agenda of emissions reduction and climate adaptation and resilience projects. The initiatives currently scheduled for delivery are:

- The establishment of the Coordinator-General for Climate Action and office.
- Commence the delivery of the sustainable household scheme.
- Begin market sounding on delivery of the ACT distributed large scale battery storage system.

Out of scope

Chief Minister Stream Outputs

Out of scope

Indicator 1.1g – Climate action reform initiatives.	**New accountability indicator** covering policy and project initiatives targeted at coordinating the delivery of the Government's agenda of emissions reduction and climate adaptation and resilience projects. The initiatives currently scheduled for delivery are: establishment of the Coordinator-General for Climate Action and office, commence the delivery of the sustainable household scheme and begin market sounding on delivery of the ACT distributed large scale battery storage system.

Output 1.2: Workforce Capability and Governance	**Changes and variance explanations**
Output description.	**Updated** to include new deliverables including: • Developing a whole of service vision for the ACTPS including workforce models and supporting culture and practices. • Delivering a whole of service survey so that workforce trends and patterns inform strategic decision making.
Indicator 1.2a – Conduct the annual whole of government Graduate Program.	**YTD Target:** 85% **YTD Result:** 100% **Variance explanation:** The variance is due to all of the 2020 ACTPS graduates successfully completing the program.

ACT Government

Andrew Barr MLA

Chief Minister

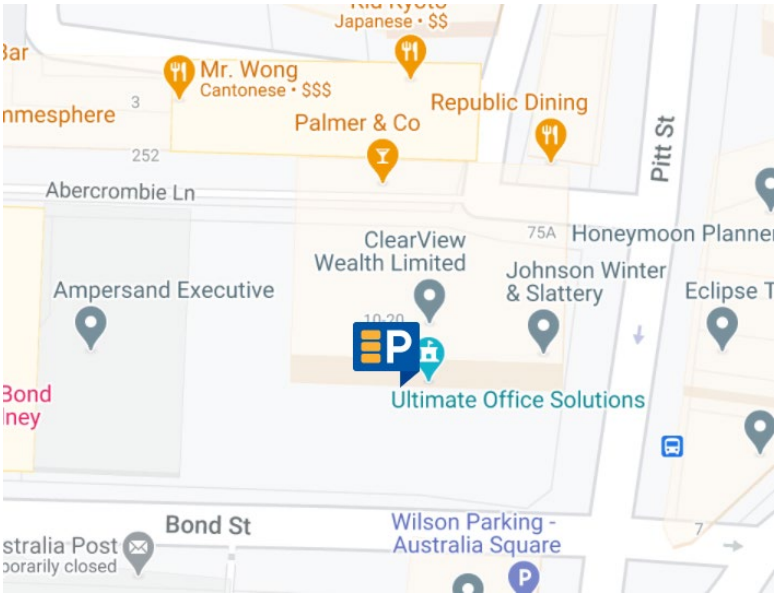
Treasurer
Minister for Climate Action
Minister for Economic Development
Minister for Tourism

Member for Kurrajong

ARRANGEMENTS BRIEF

FUNCTION:	Meeting at Australian Energy Market Operator (AEMO)
VENUE:	Level 1, 20 Bond Street, SYDNEY NSW 2000
HOST:	Name: Tony Chappel, Chief External Affairs Officer, AEMO Mobile: 0408 131 236
DAY:	Tuesday
DATE:	24 November
TIME:	1:30 pm - 2:30 pm
TIME COMMITMENT:	One hour
CATERING:	You will have lunch before the meeting.
DRESS CODE:	Formal
YOUR ROLE:	You will be meeting with the following representatives of AEMO: • Audrey Zibelman - Chief Executive Officer and Managing Director; • Michael Gatt - Chief Operations Officer; • Tony Chappel - Chief External Affairs Officer; and • Alex Wonhas - Chief System Design and Engineering Officer. Biographies for each attendee are at Attachment A. The agenda items for the meeting are: • Overview of current state of NEM and renewables pipeline; • AEMO involvement in tenders for large scale battery storage;

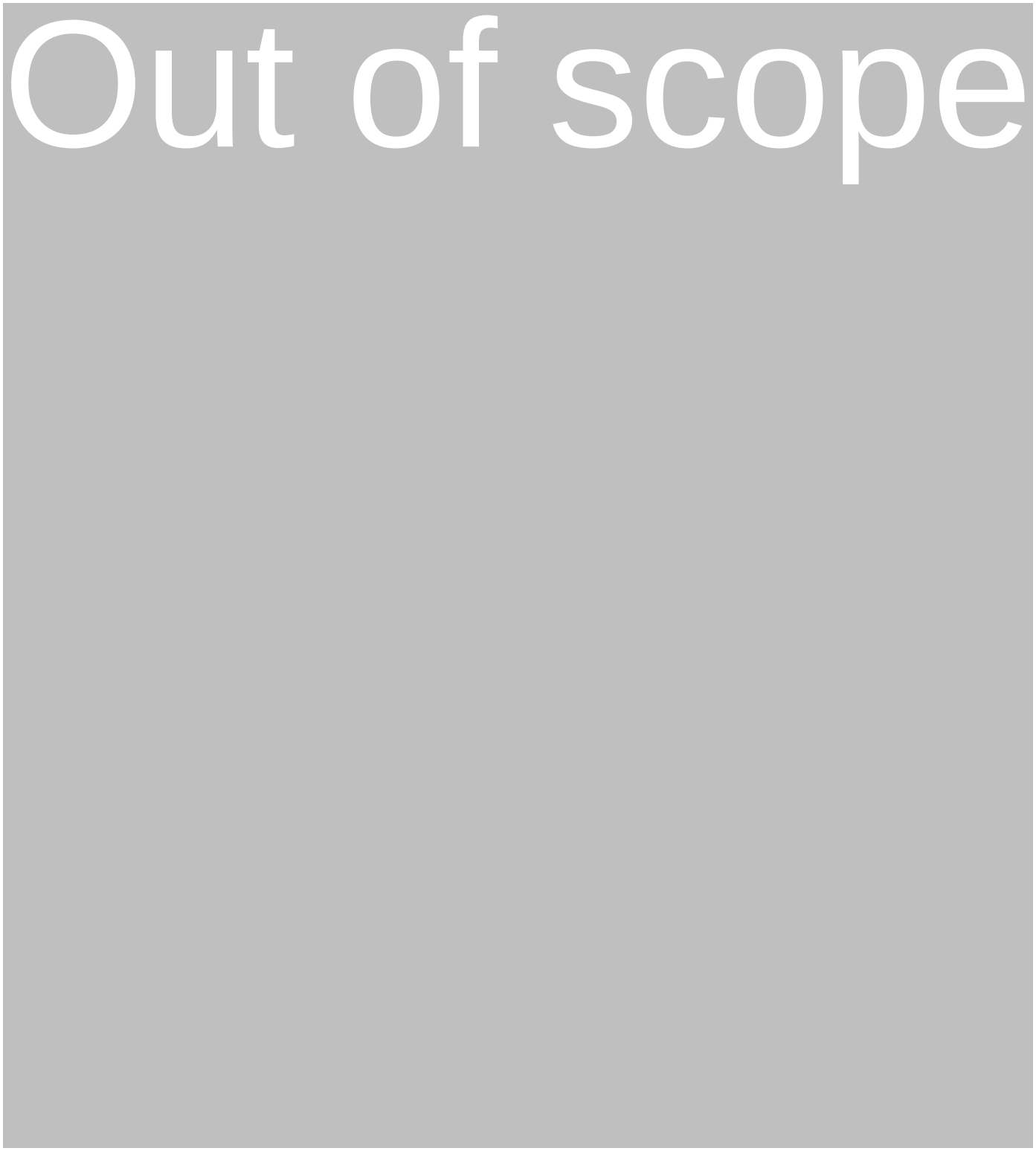
Andrew Barr MLA - Arrangements brief

	• Community scale battery storage and benefits in distribution networks; and • AEMO scenario planning - transition technologies to net zero. Background points on each of these issues are at Attachment B.
WHERE TO PARK:	There is secure parking available at 20 Bond Street. It is accessible via Pitt Street and Abercrombie Lane (map below). 
WHO WILL MEET YOU:	Tony Chappel will meet you. Please call Tony (0408 131 236) when you have arrived.
ADVISOR ATTENDING:	The following advisors will be attending with you: • Matt Mison, Deputy Chief of Staff; and • Faheem Khan, Head of Budget and Economic Policy.
AUDIENCE:	Representatives from AEMO are listed under 'Your Role' above.
VIPs:	N/A
PAST INVOLVEMENT:	AEMO has engaged with EPSDD in the past week expressing a desire to provide information and grid modelling to the ACT Government to assist with future large-scale energy generation and storage. This would include any potential future renewable electricity auctions, as well as the 'ACT big battery ecosystem'. In a meeting with EPSDD officials this week, AEMO raised a concern about the ability of the south west section of the Victorian electricity grid to accommodate the amount of generation planned for the Canberra region, which includes the proposed Berrybank 2 wind farm which was granted a feed-in tariff by the ACT Government in the recent Renewables Auction 5.
SENSITIVITIES:	N/A
ORDER OF CEREMONIES	N/A

Andrew Barr MLA - Arrangements brief

MEDIA:	No
SOCIAL MEDIA ACCOUNTS	Twitter: @AEMO_Media
OUTSTANDING REGULATORY ISSUES	No outstanding issues identified.

Andrew Barr MLA - Arrangements brief



Andrew Barr MLA - Arrangements brief

ATTACHMENT B: BACKGROUND POINTS

Out of scope

AEMO involvement in tenders for large scale battery storage

(a) AEMO involvement in tenders for large scale battery storage

- The AEMO has recently completed a big battery tender for a 10-year contract for services in Victoria.
- The contract was awarded to Neoen – a company that is headquartered in the ACT as a result of the ACT's first wind auction.
- The battery will be 300 megawatts (MW)/450 megawatt hours (MWh). The battery will be paid a $12.5 million annual service charge, in exchange for granting the AEMO control over 250 MW/125 MWh of battery capacity.
- This battery will provide grid services and support additional capacity to be transferred over the existing transmission lines between NSW and Victoria.

(b) Potential AEMO involvement in ACT's tenders for large scale battery storage

- AEMO has engaged with EPSDD in the past week expressing a desire to provide information and grid modelling to the ACT Government to assist with future large-scale energy generation and storage. This would include any potential future renewable electricity auctions, as well as the 'ACT big battery ecosystem'.

Andrew Barr MLA - Arrangements brief

Community scale battery storage and benefits in distribution networks

- Community scale batteries may be able to access additional value streams compared to residential batteries, such as wholesale and ancillary service markets, and quality of supply management on the low voltage network, which may allow for higher co-investment and less subsidy.
- Community scale batteries, if located appropriately, can support parts of the grid that cannot be effectively supported by larger, transmission scale batteries.
- Community scale battery storage models with an emphasis on innovation can create opportunities to achieve storage at scale, attract industry investment and/or increase market confidence.
- Community scale storage can assist in minimising risks related to over-purchasing capacity; complexity in operations and safety, and integration with existing systems commonly associated with home batteries.
- Community scale storage can benefit renters and people without adequate funds to purchase their own battery through opportunities for community to access a portion of 'virtual' storage from a larger battery servicing a specific region.
- The ACT Government's Next Generation Energy Storage (Next Gen) program will shortly proceed with a Medium Scale Storage Trial, which may potentially assist the market to investigate the financial, regulatory and consumer parameters for effective roll out of larger-scale battery storage across the ACT. This will provide learnings for the rollout of the ACT battery storage ecosystem.

ACT Government

MINISTERIAL BRIEF

Joint Chief Minister Treasury and Economic Development Directorate and Environment Planning and Sustainable Development Directorate

OFFICIAL

To:	Minister for Climate Action	**Tracking No.:** CMTEDD2021/2759
Date:	30 June 2021	
CC:	Minister for Water, Energy and Emissions Reduction Head of Service	
From:	Executive Group Manager, Climate Change and Energy	
Subject:	Big Canberra Battery Co-Design Workshop Report	
Critical Date:	9 July 2021	
Critical Reason:	To enable the timely public release of the Big Canberra Battery Co-Design Workshop Report	

- CG for Climate Action 04/06/2021
- DDG, Environment, Water and Emissions Reduction 03/06/2021

Recommendations

That you **agree** to publicly release the Co-Design Workshop Report (Attachment A).

Agreed / Not Agreed / Please Discuss

Andrew Barr MLA ..... 2./.8../.21

Chief Minister's Office Feedback:

OFFICIAL

Background

1. Action A1(v) of the Parliamentary and Governing Agreement (PAGA) specifies a government commitment to deliver at least 250 MW of new 'large-scale' battery storage (LSBS) distributed across the ACT. The Office of the Coordinator General for Climate Action (CMTEDD) and the Big Canberra Battery team (EPSDD) are collaborating on the delivery of the project.

2. The project will be delivered through a three-phase approach:

    I. Market Sounding and Expression of Interest (EOI): Engagement with key market stakeholders to determine interest, capability, risks and opportunities.

    II. Design Brief and Project Business Case: Development of distributed LSBS design options and Climate Action Subcommittee agreement to an optional design.

    III. Procurement: Series of procurement processes informed by the design brief. Construction and commissioning of successful tenders.

Phase 1 market sounding activities to date

3. Market sounding activities undertaken in April and May 2021 include:

    I. Letter to industry: A letter to industry from the Coordinator General for Climate Action was published on 16 April 2021 on the Big Canberra Battery website: www.environment.act.gov.au/cc/big-canberra-battery. The letter provides project information including background, objectives, timelines and next steps.

    II. Online submission form: Market participants were provided the opportunity to submit confidential submissions including feedback and/or advice on how the Big Canberra Battery could be built in the ACT. The form was available from 16 April to 7 May 2021 and forty-two submissions were received.

    III. Co-design workshop and report: A co-design workshop was delivered on 29 April 2021 by an expert facilitator, the ANU Battery Storage and Grid Integration Program (BSGIP) team. The workshop provided key stakeholders with the opportunity to provide input on topics such as the engagement process, the role of government, system design considerations and any other relevant issues. A co-design workshop summary report is at Attachment A and provides details on the workshop format, information shared, analysis and recommended options for ACT Government consideration.

Summary of co-design workshop outcomes

4. Key outputs of the co-design workshop and report include four themes and five concept programs. Themes were identified across the various insights and views shared by stakeholders. Concept programs are proposed by BSGIP to inform preliminary thinking on how the Big Canberra Battery project may be implemented. The report states that concept programs are for ACT Government consideration only.

5. The four themes include:

I. Transmission scale Big Batteries are increasingly well served but financing remains a challenge;
II. There are many opportunities for distribution scale batteries, to support the grid or provide new services to customers and communities;
III. Accessing network support opportunities for distribution scale batteries remains a challenge; and
IV. Other opportunities exist for co-locating storage with other energy uses such as EV charging, vehicle-to-grid or hydrogen projects.

6. The five concept opportunities identified by BSGIP include:

I. Transmission Scale Battery Co-investment: The ACT Government co-invests by providing finance or land to generate a positive financial return;
II. Distribution Support Battery Program: A distribution scale battery network that can be readily deployed in areas with over/under demand;
III. Battery Co-location Program: Locating batteries on-site at strategic locations (for example bus depots and electric vehicle charging points);
IV. Community Energy Storage Systems Program: Localised storage services such as storing excess solar generation for ACT communities; and
V. Technology De-risking Demonstrations: Trialing battery sector innovation in alternative chemistries (i.e.: non lithium-ion) and grid-forming inverters.

7. The report also includes 30 key insights. These are practical observations and recommendations that have been provided to inform the delivery of the next tranche of work.

Issues

8. Your approval is sought for the public release of BSGIP's co-design report, included at Attachment A. The report will be published online on the Big Canberra Battery website.

9. For reasons of probity, the report should be made available in advance of the next engagement activity, which will be an EOI. This is to ensure all new entrants to the process have equal access to the information that was made available in the co-design workshop.

10. The next tranche of work includes two consultancies, which will both require the co-design report as a resource. These consultancies include a financial/commercial consultant and a technical consultant. These consultancies will evaluate the information captured in the market sounding to provide recommendations for the next project stages including the EOI, design brief and business case.

Financial Implications

11. ANU BSGIP were contracted to deliver the co-design workshop and report for $20,625 (including GST).

Consultation

Internal

12. The Big Canberra Battery project team (EPSDD) and Office for Climate Action team members (CMTEDD) were present in the workshop as observers.

13. EPSDD energy project officers participated in the co-design workshop.

Cross Directorate

14. Officers from the ACT Education Directorate, Canberra Health Services, Suburban Land Agency and Transport Canberra and City Services participated in the co-design workshop.

External

15. Key market stakeholders were identified based on merit in consultation with ANU BSGIP and invited to participate in the workshop. Representatives attended from sectors including market and regulatory bodies, battery developers and suppliers, consumer advocates, retailers and generators, network service providers and energy consultants.

Work Health and Safety

16. The co-design workshop was delivered online for compliance with the ACT Government's Covid-normal restrictions as of 29 April 2021. All engagement with ANU BSGIP was conducted virtually.

Benefits/Sensitivities

17. Procurement ACT (Policy and Capability Branch) provided the Big Canberra Battery project team with probity training on 24 March 2021 to ensure compliance with legal requirements when engaging with external parties.

18. All individuals and organisations involved in delivery of project activities are required to complete a declaration of confidentiality and conflict of interest declaration. ANU BSGIP declared a potential conflict of interest in that they may be interested in providing services/products to workshop participants in the future.

19. ANU BSGIP declared it has not engaged with any participants or reached any agreements to provide services prior to the workshop and that it would treat all private knowledge acquired through providing services to ACT Government as confidential. Procurement ACT advised that this declaration was sufficient to allow BSGIP to deliver the co-design workshop and still be free to provide services to market participants in the Big Canberra Battery project.

Communications, media and engagement implications

20. A media release announced the commencement of the Big Canberra Battery market sounding on 16 April 2021. The market sounding has been reported in several industry publications including reneweconomy.com.au, energymagazine.com.au and pv-magazine-australia.com. Traditional media outlets including Canberra Times and Canberra Weekly also reported it.

21. Pending your approval, the co-design report will be published on the Big Canberra Battery website. Entities that have registered their interest in the project will receive an email notifying them that the report has been published.

22. Communications for this project are being led by CMTEDD, in consultation with the EPSDD communications team.

Signatory Name:	Lara Lloyd	Phone:	6205 1093
Action Officer:	Peter Rowed	Phone:	6205 9669

Attachments

Attachment	Title
Attachment A	Co-Design Workshop Report

ACT Government

ANNUAL REPORT HEARING BRIEF

4.2

Portfolio: Climate Action

Big Canberra Battery

Talking points:

- The Government has committed to a distributed network of large-scale battery storage systems through the Big Canberra Battery Project.
- Specifically, the Parliamentary and Governing Agreement commitment to deliver at least 250 megawatts (MW) of new 'large-scale' battery storage has been met through a partnership with Eku Energy for a 250 MW, 500 MWh battery facility at Williamsdale. In addition, a further 11 behind-the-meter batteries will be delivered at government sites including schools and maintenance depots.
- It is anticipated that the Big Canberra Battery Project will deliver on a range of financial, electricity network and emissions reductions objectives.

Key Information

Big Canberra Battery Project overview

- Action A1(v) of the Parliamentary and Governing Agreement specifies a commitment to deliver at least 250 MW of new 'large-scale' battery storage distributed across the ACT.
- The Big Canberra Battery project will deliver a number of batteries including large-scale transmission connected batteries and behind-the-meter batteries at ACT Government sites.
- The Project is expected to deliver new revenue sources and/or cost savings to the Territory; support grid reliability while helping to integrate greater amounts of renewable electricity; and put downwards pressure on prices in the ACT and broader network.
- Following a two-stage procurement process, the ACT Government signed a Project Agreement with Eku Energy in April 2023 for the delivery of a 250 MW, 500 MWh battery facility at Williamsdale.
- In June 2023 the ACT Government signed contracts with AGL Energy Solutions and SolarHub for the installation of 11 behind-the-meter batteries at government sites.
- Table 1 provides further detail on the three delivery 'streams' of the Big Canberra Battery, including objectives, procurement approach and outcomes.

Cleared as complete and accurate:
Cleared for public release by:
Contact Officer name: Lara Lloyd Ext: 6205 1093
Lead Directorate: Chief Minister, Treasury and Economic Development

TRIM Ref: CM23/133531

ACT Government

ANNUAL REPORT HEARING BRIEF

Background Information

The role of large-scale battery storage in a zero emissions future

- Existing fossil fuel generation is retiring and is being replaced by renewables that are cheaper but have intermittent generation.
- This is likely to happen sooner than the technical lifespan of fossil fuel generators, with little notice. New South Wales will be the state most impacted in the near term, which also impacts the ACT as it is included in the NSW National Energy Market (NEM) Jurisdiction. The lack of coordinated national action in managing the transition is expected to lead to higher electricity prices, lower reliability and worse emissions outcomes than if the transition is managed well. Support from batteries will assist in managing the transition.
- Large-scale battery storage is faster, cheaper and more flexible than gas peaker plants and they are the ideal technology to firm renewables into the grid without relying on fossil fuels.
- Securing financing for battery projects can be difficult, due to uncertainties around revenue and national policy. Through the procurement approach for large-scale battery storage systems (Stream 1 of the Project) the Territory will share market risk on behalf of project developers, in exchange for a potential return to the Territory.

Status of battery storage in the ACT

- Existing batteries in the ACT and those under development are shown below.

Battery Project	Location	Size (MW)	Details
Individual households/businesses	Mostly residential sites in the ACT	24 total (estimated)	Estimated capacity installed under the ACT Government's Next Generation Energy Storage Program (which closed in Jan 2023). Further batteries have been installed without the ACT Government program.
Neoen Capital Battery	Oaks Estate	100	Under construction. To be delivered as part of a contract signed with the ACT Government in 2020 for Renewables Auction 5.
GPG	Oaks Estate	10	Operating. Delivered as part of a contract signed with the ACT Government in 2020 for Renewables Auction 5.
Elvin Group Battery	West Belconnen	2.5	Operating.
CWP Ginninderry Community-Scale Battery	Strathnairn	0.25	Under construction.
Neoen Territory Battery	West Belconnen	300	Referred for federal environmental impact assessment in March 2021.
Jacka Community-Scale Battery Initiative	Jacka	0.5-2	Delivered by the ACT Government's Suburban Land Agency. Second stage RFP to be released late 2023 or early 2024.

Commonwealth's Community Batteries for Household Solar Program	Various	0.05-5	Commonwealth commitment to deliver 400 community batteries across Australia. Locations TBC - pending outcomes of funding rounds – may include Dickson, Fadden, Casey.

Cleared as complete and accurate:
Cleared for public release by:
Contact Officer name: Lara Lloyd Ext: 6205 1093
Lead Directorate: Chief Minister, Treasury and Economic Development

TRIM Ref: CM23/133531

ACT Government

ANNUAL REPORT HEARING BRIEF

Table 1: Big Canberra Battery Project – Primary Streams of Delivery

Stream Description	Objectives	Procurement Approach	Outcomes/Timelines
Stream 1 –Large, grid-connected batteries	• Deliver 250 MW of storage. • Support grid reliability and help to integrate greater amounts of renewable generation in the NEM. • Deliver new revenue sources to the Territory. • Put downward pressure on prices in the ACT and broader network.	Two stage process: Stage 1: Expression of Interest (EOI) open between Dec 2021 and Feb 2022. Stage 2: Request for Proposals (RFP) open between Sep and Nov 2022 to six shortlisted suppliers from the EOI stage.	• Supplier: Eku Energy • Contract executed: April 2023 • Battery details: 250 MW, 500 MWh battery at Williamsdale • Financial arrangement: Revenue share agreement. The Territory receives 50% of net revenues from the battery. In exchange, the Territory provides fixed quarterly payments to Eku Energy over the 15 year contract. • Ownership: Eku Energy retains ownership and control of the battery. • Key dates: Construction expected to commence in late 2024 and expected completion in 2025.

Stream 2 – Behind-the-meter batteries at Government sites	First tranche:
	• Reduced cost of electricity for ACT Government sites.
	
	Subsequent tranches (if any) may focus on alternative objectives such as reliability of supply, support for the distribution grid and avoided augmentation costs as sites transition to being all-electric.
		Two single-stage RFPs released to the market:
		
		RFP for small batteries: open between Aug and Sep 2022.
		
		RFP for large batteries and a solar PV system: open between Aug and Oct 2022.
			RFP for small batteries:
			• Supplier: SolarHub
			• Contract executed: June 2023
			• Battery details: Nine batteries across six directorates. Roughly one to three residential sized batteries.
			  ○ Belconnen Parks Depot (15 kW/40.5 kWh)
			  ○ Gungahlin Family and Child Centre (5 kW/13.5 kWh)
			  ○ Allara Depot (10 kW/27 kWh)
			  ○ Kambah Depot (5 kW/13.5 kWh)
			  ○ Ron Reynolds Centre (5 kW/13.5 kWh)
			  ○ Chifley Community Hub (10 kW/27 kWh)
			  ○ Ngunnawal Bush Healing Farm (5 kW/13.5 kWh)
			  ○ Cotter Depot (10 kW/27 kWh)
			  ○ Greenway Ambulance Station (5 kW/13.5 kWh)
			• Cost: $189,500 (incl GST)
			• Key dates: Installations will be complete by early 2024

Cleared as complete and accurate:
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Contact Officer name: Lara Lloyd Ext: 6205 1093
Lead Directorate: Chief Minister, Treasury and Economic Development

TRIM Ref: CM23/133531

ACT Government

ANNUAL REPORT HEARING BRIEF

Stream Description	Objectives	Procurement Approach	Outcomes/Timelines

			RFP for large batteries and a solar PV system:
			• Supplier: AGL Energy Solutions
			• Contract executed: June 2023
			• Battery details: Roughly a third of the size of a shipping container. No batteries of this size currently in the ACT.
			  ○ Property Group workshop at 255 Canberra Ave (60 kW/100 kWh)
			  ○ Mt Stromlo High School (100 kW/252 kWh)
			  ○ Kingsford Smith School (225kWp solar system)
			• Cost: $836,000 (incl GST). Note – this price includes the solar system
			• Key dates: Installations will be complete by early 2024

Stream 3 – Neighbourhood-scale batteries	Objective statement is yet to be defined but may include: • Increased grid reliability • Industry development • Downward pressure on electricity prices.	TBC	This stream is in the policy design and feasibility analysis phase. Support has been provided to the Suburban Land Agency on the Jacka battery procurement. This stream is likely to include partnership with Evoenergy on Commonwealth funded community batteries in the ACT.

Cleared as complete and accurate:
Cleared for public release by:
Contact Officer name: Lara Lloyd Ext: 6205 1093
Lead Directorate: Chief Minister, Treasury and Economic Development

TRIM Ref: CM23/133531

ACT Government

ANNUAL REPORT HEARING BRIEF

4.1

Portfolio/s: Climate Action

Climate Action

4.1 Climate Change in the ACT

Talking points:

- The ACT is delivering one of the most ambitious climate action agendas in the world. We are the first major jurisdiction outside Europe to transition to 100% renewable electricity, a milestone achieved in 2020.
- Climate change is one of the biggest challenges we face, yet we have an opportunity to build a smarter, healthier, net zero future. Sustainable energy infrastructure, access to efficient technologies for our buildings and homes, decarbonising transport, minimising waste and climate-resilient planning are moving us closer to our ambitious target of net-zero emissions by 2045.
- The ACT Government has committed to an ambitious agenda for climate action in the *Parliamentary and Governing Agreement of the 10th Legisaltive Assembly* across three thematic areas:
    - Phasing out of fossil fuel gas by 2045 at the latest, supporting energy grid stability and supporting vulnerable households.
    - Significantly expanding the number of zero emissions vehicles (ZEVs) in the ACT.
    - Reforming the ACT's building and planning system to ensure a transition to best practice climate-ready and environmentally sustainable buildings and planning.
- The 2023-24 Budget includes $135 million in funding allocated to climate action initiatives which span across reducing transport emissions, continuing work on the Government's gas to electric transition pathway, improving environmental resilience and reducing ACT Government emissions (see Table 1).

The Office for Climate Action's role and key programs

- The Office for Climate Action (the Office) oversees the delivery of major projects, coordinates emissions reduction initiatives across the ACT Government, and identifies ways to increase our climate adaptation and resilience.
- The Office will continue to support the development of several climate action policies and programs across government over the coming 12 months:
    - Develop – with the Environment, Planning and Sustainable Development Directorate (EPSDD) - an Integrated Energy Plan to support the ACT's transition to net-zero via an electrification pathway.

- Support EPSDD to make a regulation to prohibit new gas connections being made in most parts of the ACT.
- Work with our selected suppliers on the delivery of a 250 megawatt, 500 megawatt-hour battery storage facility in Williamsdale, and eleven behind-the-meter batteries at government sites including schools and maintenance depots. These batteries, to be delivered as part of the Big Canberra Battery project, will increase energy security and reliability for Canberrans, further ease the pressure on the network and put downward pressure on electricity prices.
- Continue to implement the highly successful Sustainable Household Scheme, including delivering an $80 million funding extension that refocusses the Scheme on helping ACT residents to electrify their homes, and partnering with the Australian Government to support solar on multi-unit residential developments through rebates and zero interest loans.
- Coordinate the delivery of the $50 million Vulnerable Household Energy Support Scheme which will improve building efficiency and sustainability for community and public housing, and low-income owner-occupiers, to reduce their home energy consumption and support resilience.

Out of scope

ACT Government

ANNUAL REPORT HEARING BRIEF

Out of scope

Out of scope

Cleared as complete and accurate:	02/11/2023	
Cleared for public release by:	Deputy Director-General	Ext: 50230
Contact Officer name:	Megan Callaway	Ext: 58299
Lead Directorate:	Chief Minister, Treasury and Economic Development	

TRIM Ref: CM2023/5622

ACT Government

ANNUAL REPORT HEARING BRIEF

Out of scope

Out of scope

Cleared as complete and accurate:	02/11/2023	
Cleared for public release by:	Deputy Director-General	Ext: 50230
Contact Officer name:	Megan Callaway	Ext: 58299
Lead Directorate:	Chief Minister, Treasury and Economic Development	

TRIM Ref: CM2023/5622

ACT Government

ANNUAL REPORT HEARING BRIEF

Background Information

Table 1: Budget measures

Whole of Government			-$135,456m
Agency	**Proposal**	**Category**	**$m**
CMTEDD	Big Canberra Battery Stream 1	Supporting climate action	**21,929**

Out of scope

Cleared as complete and accurate:	02/11/2023	
Cleared for public release by:	Deputy Director-General	Ext: 50230
Contact Officer name:	Megan Callaway	Ext: 58299
Lead Directorate:	Chief Minister, Treasury and Economic Development	

TRIM Ref: CM2023/5622

Issue: Climate Change in the ACT

Talking points

2022-23 Budget – Climate Action Measures and Projected Achievements

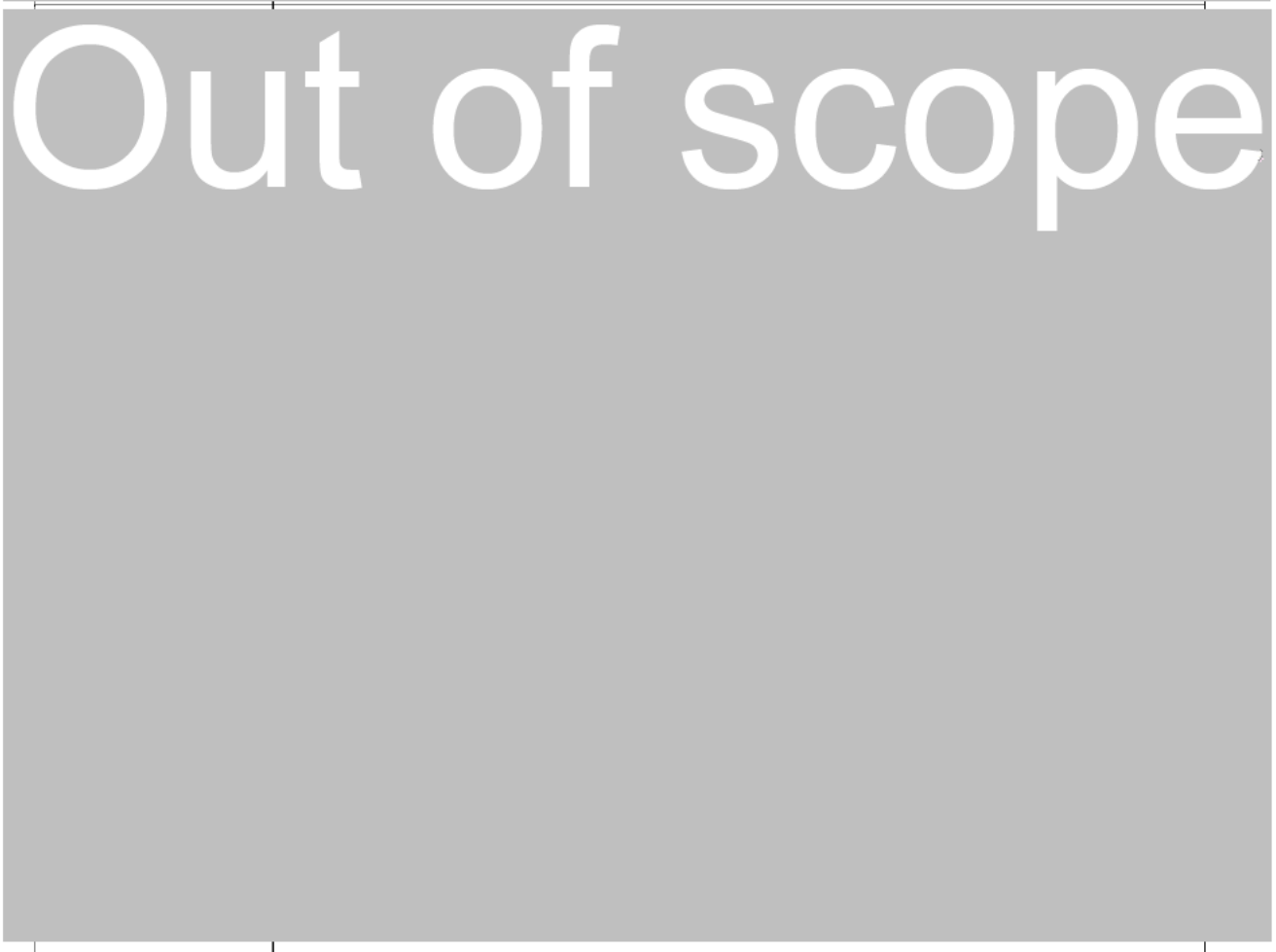
- The 2022-23 Budget includes $119 million funding allocated to climate action initiatives which span across reducing transport emissions, continuing work on the government's gas transition pathway, improving environmental resilience and reducing ACT Government emissions.

2022-23 Budget Measures: Key Messages

Out of scope

Out of scope

Out of scope


Out of scope

Out of scope

	• The ACT Government further supports the Federal Government's commitment to improving grid reliability and modernisation outlined in Federal Labor's Powering Australia and Rewiring the Nation strategies. This includes the federal commitment to support three neighbourhood-scale batteries in Canberra.

Out of scope

Out of scope

2022-23 Budget – climate action initiatives

2022-23 Budget (new funding only)		**Total funding: over $119 million**	
Initiative title	**Ministerial Portfolio**	**Description**	**Funding**

Out of scope

Adaptation and resilience			

Out of scope

Out of scope

Government assets and operations

Out of scope

Out of scope

Energy			
ACT Distributed Large Scale Battery Storage System - Stream 1 (Large Grid Connected Batteries)	**Minister for Climate Action**	Funding to continue the Big Canberra Battery project for large scale grid connected batteries.	Previously provisioned.

Out of scope

Transport			

Out of scope

Waste			

Out of scope

2021-22 Budget – climate action initiatives

2021-22 Budget (new funding only)		**Total funding: over $65 million**	
Initiative title	**Ministerial Portfolio**	**Funding**	**2022-23 Progress Update**

Out of scope

			efficiency products to become available later in 2022.
Out of scope			
Out of scope			

Out of scope

2020-21 Budget – climate action initiatives

2020-21 Budget		Total funding: over $300 million	
Initiative title	**Ministerial Portfolio**	**Funding**	**2022-23 Progress Update**

Out of scope

Big Canberra Battery	**Minister for Climate Action**	$100 million	Program continued in 2022-23

Out of scope

Office for Climate Action Progress Report 2021-22

Purpose and Funding

The Office for Climate Action (OCA) was established to oversee the delivery of major projects, coordinate activities across the ACT Government and identify ways to increase our climate adaptation and resilience.

The OCA was allocated $915,000 of expense funding for two years in the 2020-21 Budget. This funding has been extended with $3.765 million over three years to continue the OCA's core functions and provisioned funding in 2025-26 subject to future consideration in the budget process.

Key Achievements in 2021-22

Out of scope

- $100 million Big Canberra Battery
    - The project has progressed into three streams to deliver a number of batteries across the Territory including large-scale transmission connected batteries, smaller 'neighbourhood-scale' batteries and behind-the-meter batteries at ACT Government sites such as schools and maintenance depots.
    - Expenses funding for 2020-21 and 2021-22 has been provided in the 2020-21 Budget, while capital funding for the project ($95.8 million) and expenses funding from 2022-23 were provisioned.

- The Project is expected to deliver new revenue sources and/or cost savings to the Territory; support grid reliability while helping to integrate greater amounts of renewable electricity; and put downwards pressure on prices in the ACT and broader network.

Out of scope

Out of scope

Out of scope

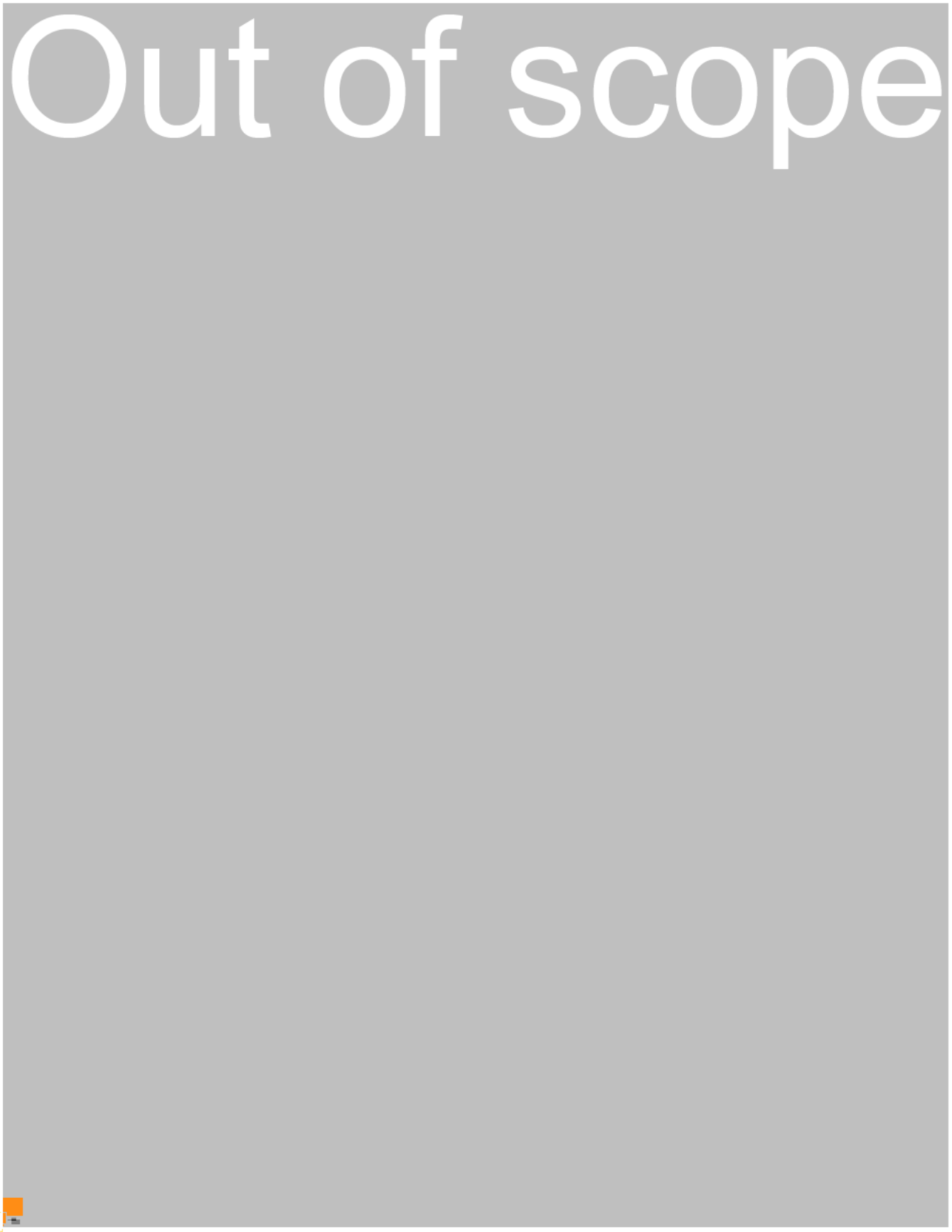
2022-23 OCA Priorities

OCA Leading:

Out of scope

- Continuing development of the Big Canberra Battery program.

Out of scope


Out of scope

Whole of Government Climate Action Progress Report 2021-22

Out of scope

Out of scope

Out of scope

Out of scope

Out of scope

ISSUE: BIG CANBERRA BATTERY

Talking points:

- The Government has committed to a distributed network of large-scale battery storage systems through the Big Canberra Battery Project.
- The Project is planned to be delivered in three streams, which will see a variety of batteries installed across the transmission and distribution networks, and at ACT Government sites.
- It is anticipated that the Project will deliver on a range of financial, electricity network and emissions reductions objectives.

Key Information

Big Canberra Battery Project overview

- Action A1(v) of the Parliamentary and Governing Agreement specifies a commitment to deliver at least 250 MW of new 'large-scale' battery storage distributed across the ACT.
- The Big Canberra Battery project is expected to deliver a number of batteries across the Territory including large-scale transmission connected batteries, smaller 'neighbourhood-scale' batteries and behind-the-meter batteries at ACT Government sites such as schools and maintenance depots.
- The ACT Government has committed funding of $100m to deliver the initiative. Expenses funding for 2020-21 through 2024-25 was provided in the 2021-22 budget mid-year review. Capital funding of $692,000 for Stream 2 (behind the meter, government sites) was provided in the 2021-22 budget mid-year review budget. Expenses funding for Stream 1 was provided in the 2022-23 budget. Stream 3 funding remains provisioned.
- The Project is expected to support grid reliability while helping to integrate greater amounts of renewable electricity and put downwards pressure on prices in the ACT and broader network.
- Phase 1 of the Project comprised a market sounding process to gauge industry interest and capability and to give industry the opportunity to provide input on the engagement process, role of government and design considerations.
- Independent analysis of the market sounding outcomes was undertaken by the Utilities Technical Regulator and commercial consultant (Baringa Partners), to consider the viability of recommendations with respect to the ACT Government's objectives and interests.
- As a result three project streams have been established:
    - Stream 1 – Large, grid-connected batteries: Large batteries primarily on the transmission network.

  - Stream 2 – Batteries behind the meter at Government sites such as schools and maintenance depots.
  - Stream 3 – Neighbourhood-scale batteries: Medium sized grid-connected batteries on the distribution grid.
- Table 1 provides further detail on the potential delivery streams, including features, objectives, anticipated procurement approach, status and timelines.

Stream 1 considerations

Concept design

- Large-scale batteries can provide a number of services and access a number of value streams. Batteries delivered under Stream 1 will be required to deliver energy and ancillary services to the National Electricity Market (NEM).
- Battery developers will optimise the operation of the battery to maximise revenue while minimising the degradation of the battery. It is expected that most of the revenue will come from Frequency Control Ancillary Services (FCAS) and wholesale energy market arbitrage.

Commercial model

- Financial modelling and analysis have resulted in two 'contract for output' commercial models being shortlisted for the procurement process. The Stream 1 EOI will seek industry feedback on these models.
  - Virtual Storage – A 'Virtual Storage' contract fixes the price for the top and bottom intervals of the day in exchange for a fixed hourly fee. This would fix the daily spread for a battery and provide the battery developer with a fixed hourly cashflow.
  - Revenue share – A revenue share arrangement involves the Territory paying a fixed annual sum in exchange for a fixed percentage of total project revenue from the battery developer. Under a revenue share, the battery developer is responsible for all control and management of the battery.

Sites

- Nine sites (or parts of sites) for which the Territory is the custodian have been identified. The Territory may agree to grant a crown lease, sublease or licence at market rates to successful proponents for these sites which are in the vicinity of transmission or distribution substations. Proponents can nominate to use other sites within the ACT.
- Proponents are responsible for securing a suitable site and for obtaining all approvals to secure and develop batteries at the site.

Social and environmental sustainability outcomes

- A social and environmental sustainability plan was required at the EOI stage which included, as a minimum, a site remediation plan and a battery recycling plan.

- The responses received in the EOI have been used to develop a social and environmental sustainability requirement that balances ambition and achievability.

Background Information

The role of large-scale battery storage in a zero emissions future

- Existing fossil fuel generation is retiring and is being replaced by renewables that are cheaper but have intermittent generation.
- This is likely to happen sooner than the technical lifespan of fossil fuel generators, with little notice. New South Wales will be the state most impacted in the near term, which also impacts the ACT as it is included in the NSW National Energy Market (NEM) Jurisdiction.
- Large-scale battery storage is faster, cheaper and more flexible than gas peaker plants and they are the ideal technology to firm renewables into the grid without relying on fossil fuels.
- Securing financing for battery projects can be difficult, due to uncertainties around revenue and national policy. Stream 1 of the Project would see the Territory share market risk on behalf of project developers, in exchange for a potential return to the Territory.
- Battery storage in the ACT is expected to grow significantly under existing policies and projects including: the Big Canberra Battery project; the Next Generation Energy Storage Program; the Sustainable Household Scheme; Renewables Auction 5 batteries; private, community or network batteries and ACT Government owned batteries.

Table 1: Big Canberra Battery Project – potential streams

Stream Description	Features	Objectives	Procurement Approach	Procurement Timelines
Stream 1 –Large, grid-connected batteries: Primarily on the transmission network.	Battery size: >10 MW Ownership: Developers retain ownership and control of the batteries. 'Contract for output' established between Territory and developers	• Deliver 250 MW of storage. • Support grid reliability and help to integrate greater amounts of renewable generation in the NEM. • Deliver new revenue sources to the Territory. • Put downward pressure on prices in the ACT and broader network.	Two stage process: 1. Stage 1: Expression of Interest (EOI). Aims to inform the RFP development (test contract duration, preferred commercial model, etc), and shortlist proponents for the RFP. 2. Stage 2: Request for Proposals (RFP). Strategic and Procurement Review undertaken by Government Procurement Board.	EOI was open 15 Dec 2021 to 11 Feb 2022 RFP open September 2022, closes end of November 2022. Contracting in first half of 2023. Construction start dependent on maturity of successful projects selected through RFP.
Stream 2 - Batteries at Government sites: Like schools, maintenance depots etc.	Battery size: 5 kW to 250 kW (Tailored, based on site's electricity use and solar generation). Ownership: Site owner. Other: May include virtual power plant (VPP) services to access additional forms of revenue.	First tranche/trial: • Reduced cost of electricity for ACT Government sites. Subsequent tranches may focus on alternate objectives such as reliability of supply, support for the distribution grid and avoided augmentation costs as sites transition to being all-electric.	Single stage RFP	RFP released end July 2022, RFp closed September 2022. Evaluation and contracting end 2022.
Stream 3 – Neighbourhood-scale batteries: Medium sized grid-connected batteries on the distribution grid	Battery size: 500 kW to 5 MW Three potential focus areas include: • Distribution network support batteries; • Community batteries; and • Innovative trials of commercial models and technical solutions	Objective statement will be developed following further refinement of this stream but may include: • Increased grid reliability • Industry development • Downward pressure on electricity prices.	TBC	Stream 3 is being planned during 2022 and an economic analysis of the costs and benefits has been commissioned. If a viable commercial model is available a future business case will seek budget appropriation.

ACT Government

BUDGET ESTIMATES BRIEF

4.1

Portfolio/s: Climate Action

Choose a Portfolio

4.1 Climate Change in the ACT

Talking points:

- The ACT is delivering one of the most ambitious climate action agendas in the world. We are the first major jurisdiction outside Europe to transition to 100% renewable electricity, a milestone achieved in 2020.
- Climate change is one of the biggest challenges we face, yet we have an opportunity to build a smarter, healthier, net zero future. Sustainable energy infrastructure, access to efficient technologies for our buildings and homes, minimising waste and climate-resilient planning are moving us closer to our ambitious target of net-zero emissions by 2045.
- The ACT Government has committed to an ambitious agenda for climate action in the Parliamentary and Governing Agreement of the 10th Assembly across three thematic areas:
    - Phasing out of fossil fuel gas by 2045 at the latest, supporting energy grid stability and supporting vulnerable households.
    - Significantly expanding the number of zero emissions vehicles (ZEVs) in the ACT.
    - Reforming the ACT's building and planning system to ensure a transition to best practice climate-ready and environmentally sustainable buildings and planning.
- The 2023-24 Budget includes $135 million in funding allocated to climate action initiatives which span across reducing transport emissions, continuing work on the Government's gas to electric transition pathway, improving environmental resilience and reducing ACT Government emissions (see Table 1).

The Office for Climate Action's role and key programs

- The Office for Climate Action (the Office) oversees the delivery of major projects, coordinates emissions reduction initiatives across the ACT Government, and identifies ways to increase our climate adaptation and resilience.
- The Office will continue to support the development of several climate action policies and programs across government over the coming 12 months:
    - Develop – with the Environment, Planning and Sustainable Development Directorate (EPSDD) - an Integrated Energy Plan to support the ACT's transition to net-zero via an electrification pathway.

- Support EPSDD to make a regulation to prohibit new gas connections being made in most parts of the ACT.
- Work with our selected suppliers on the delivery of a 250 megawatt, 500 megawatt-hour battery storage facility in Williamsdale, and eleven behind-the-meter batteries at government sites including schools and maintenance depots. These batteries, to be delivered as part of the Big Canberra Battery project, will increase energy security and reliability for Canberrans, further ease the pressure on the network and put downward pressure on electricity prices.
- Continue to implement the highly successful Sustainable Household Scheme, including delivering an $80 million funding extension that refocusses the Scheme on helping ACT residents to electrify their homes, and partnering with the Australian Government to support solar on multi-unit residential developments through rebates and zero interest loans.
- Coordinate the delivery of the $50 million Vulnerable Household Energy Support Scheme which will improve building efficiency and sustainability for community and public housing, and low-income owner-occupiers, to reduce their home energy consumption and support resilience.

Key Information

Out of scope

Cleared as complete and accurate:	13/07/2023	
Cleared for public release by:	Deputy Director-General	Ext:
Contact Officer name:	Megan Callaway	Ext: 58299
Lead Directorate:	Chief Minister, Treasury and Economic Development	

TRIM Ref: CM23/77586

BUDGET ESTIMATES BRIEF

Out of scope

Cleared as complete and accurate:	13/07/2023	
Cleared for public release by:	Deputy Director-General	Ext:
Contact Officer name:	Megan Callaway	Ext: 58299
Lead Directorate:	Chief Minister, Treasury and Economic Development	

TRIM Ref: CM23/77586

ACT Government

BUDGET ESTIMATES BRIEF

Background Information

Table 1: Budget measures

Whole of Government			-$135,456m
Agency	**Proposal**	**Category**	**$m**
CMTEDD	Big Canberra Battery Stream 1	Supporting climate action	**21,929**

Out of scope

Cleared as complete and accurate: 13/07/2023
Cleared for public release by: Deputy Director-General Ext:
Contact Officer name: Megan Callaway Ext: 58299
Lead Directorate: Chief Minister, Treasury and Economic Development

TRIM Ref: CM23/77586

BUDGET ESTIMATES BRIEF

4.2

Portfolio: Climate Action

Big Canberra Battery

Talking points:

- The Government has committed to a distributed network of large-scale battery storage systems through the Big Canberra Battery Project.
- Specifically, the Parliamentary and Governing Agreement commitment to deliver at least 250 megawatts (MW) of new 'large-scale' battery storage has been met through a partnership with Eku Energy for a 250 MW, 500 MWh battery facility at Williamsdale. In addition, a further 11 behind-the-meter batteries will be delivered at government sites including schools and maintenance depots.
- It is anticipated that the Big Canberra Battery Project will deliver on a range of financial, electricity network and emissions reductions objectives.

Key Information

Big Canberra Battery Project overview

- Action A1(v) of the Parliamentary and Governing Agreement specifies a commitment to deliver at least 250 MW of new 'large-scale' battery storage distributed across the ACT.
- The Big Canberra Battery project will deliver a number of batteries including large-scale transmission connected batteries and behind-the-meter batteries at ACT Government sites.
- The Project is expected to deliver new revenue sources and/or cost savings to the Territory; support grid reliability while helping to integrate greater amounts of renewable electricity; and put downwards pressure on prices in the ACT and broader network.
- Following a two-stage procurement process, the ACT Government signed a Project Agreement with Eku Energy in April 2023 for the delivery of a 250 MW, 500 MWh battery facility at Williamsdale.
- In June 2023 the ACT Government signed contracts with AGL Energy Solutions and SolarHub for the installation of 11 behind-the-meter batteries at government sites.
- Table 1 provides further detail on the three delivery 'streams' of the Big Canberra Battery, including objectives, procurement approach and outcomes.

Background Information

Cleared as complete and accurate:	19/07/2023	
Cleared for public release by:	Executive Branch Manager	Ext:
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Lead Directorate:	Chief Minister, Treasury and Economic Development	

TRIM Ref: CM23/77154

ACT Government

BUDGET ESTIMATES BRIEF

The role of large-scale battery storage in a zero emissions future

- Existing fossil fuel generation is retiring and is being replaced by renewables that are cheaper but have intermittent generation.
- This is likely to happen sooner than the technical lifespan of fossil fuel generators, with little notice. New South Wales will be the state most impacted in the near term, which also impacts the ACT as it is included in the NSW National Energy Market (NEM) Jurisdiction. The lack of coordinated national action in managing the transition is expected to lead to higher electricity prices, lower reliability and worse emissions outcomes than if the transition is managed well. Support from batteries will assist in managing the transition.
- Large-scale battery storage is faster, cheaper and more flexible than gas peaker plants and they are the ideal technology to firm renewables into the grid without relying on fossil fuels.
- Securing financing for battery projects can be difficult, due to uncertainties around revenue and national policy. Through the procurement approach for large-scale battery storage systems (Stream 1 of the Project) the Territory will share market risk on behalf of project developers, in exchange for a potential return to the Territory.

Status of battery storage in the ACT

- Existing batteries in the ACT and those under development are shown below.

Battery Project	Location	Size (MW)	Details
Individual households/businesses	Mostly residential sites in the ACT	24 total (estimated)	Estimated capacity installed under the ACT Government's Next Generation Energy Storage Program (which closed in Jan 2023). Further batteries have been installed without the ACT Government program.
Neoen Capital Battery	Oaks Estate	100	Under construction. To be delivered as part of a contract signed with the ACT Government in 2020 for Renewables Auction 5.
GPG	Oaks Estate	10	Operating. Delivered as part of a contract signed with the ACT Government in 2020 for Renewables Auction 5.
Elvin Group Battery	West Belconnen	2.5	Operating.
CWP Ginninderry Community-Scale Battery	Strathnairn	0.25	Under construction.
Neoen Territory Battery	West Belconnen	300	Referred for federal environmental impact assessment in March 2021.
Jacka Community-Scale Battery Initiative	Jacka	0.5-2	Delivered by the ACT Government's Suburban Land Agency. Second stage RFP to be released mid-late 2023.
Commonwealth's Community Batteries for Household Solar Program	Various	0.05-5	Commonwealth commitment to deliver 400 community batteries across Australia. Locations TBC - pending outcomes of funding rounds.

ACT Government

BUDGET ESTIMATES BRIEF

Table 1: Big Canberra Battery Project – Primary Streams of Delivery

Stream Description	Objectives	Procurement Approach	Outcomes/Timelines
Stream 1 –Large, grid-connected batteries	• Deliver 250 MW of storage. • Support grid reliability and help to integrate greater amounts of renewable generation in the NEM. • Deliver new revenue sources to the Territory. • Put downward pressure on prices in the ACT and broader network.	Two stage process: Stage 1: Expression of Interest (EOI) open between Dec 2021 and Feb 2022. Stage 2: Request for Proposals (RFP) open between Sep and Nov 2022 to six shortlisted suppliers from the EOI stage.	• Supplier: Eku Energy • Contract executed: April 2023 • Battery details: 250 MW, 500 MWh battery at Williamsdale • Financial arrangement: Revenue share agreement. The Territory receives 50% of net revenues from the battery. In exchange, the Territory provides fixed quarterly payments to Eku Energy over the 15 year contract. • Ownership: Eku Energy retains ownership and control of the battery. • Key dates: Construction expected to commence in late 2024 and expected completion in 2025.

Stream 2 – Behind-the-meter batteries at Government sites	First tranche:
	• Reduced cost of electricity for ACT Government sites.
	
	Subsequent tranches (if any) may focus on alternative objectives such as reliability of supply, support for the distribution grid and avoided augmentation costs as sites transition to being all-electric.
		Two single-stage RFPs released to the market:
		
		RFP for small batteries: open between Aug and Sep 2022.
		
		RFP for large batteries and a solar PV system: open between Aug and Oct 2022.
			RFP for small batteries:
			• Supplier: SolarHub
			• Contract executed: June 2023
			• Battery details: Nine batteries across six directorates. Roughly one to three residential sized batteries.
			  ○ Belconnen Parks Depot (15 kW/40.5 kWh)
			  ○ Gungahlin Family and Child Centre (5 kW/13.5 kWh)
			  ○ Allara Depot (10 kW/27 kWh)
			  ○ Kambah Depot (5 kW/13.5 kWh)
			  ○ Ron Reynolds Centre (5 kW/13.5 kWh)
			  ○ Chifley Community Hub (10 kW/27 kWh)
			  ○ Ngunnawal Bush Healing Farm (5 kW/13.5 kWh)
			  ○ Cotter Depot (10 kW/27 kWh)
			  ○ Greenway Ambulance Station (5 kW/13.5 kWh)
			• Cost: $189,500 (incl GST)
			• Key dates: Installations will be complete by early 2024

Cleared as complete and accurate:	19/07/2023	
Cleared for public release by:	Executive Branch Manager	Ext:
Contact Officer name:	Kieran Lawton	Ext: 6205 3434
Lead Directorate:	Chief Minister, Treasury and Economic Development	

TRIM Ref: CM23/77154

ACT Government

BUDGET ESTIMATES BRIEF

Stream Description	Objectives	Procurement Approach	Outcomes/Timelines

			RFP for large batteries and a solar PV system:
			• Supplier: AGL Energy Solutions
			• Contract executed: June 2023
			• Battery details: Roughly a third of the size of a shipping container. No batteries of this size currently in the ACT.
			  o Property Group workshop at 255 Canberra Ave (60 kW/100 kWh)
			  o Mt Stromlo High School (100 kW/252 kWh)
			  o Kingsford Smith School (225kWp solar system)
			• Cost: $836,000 (incl GST). Note – this price includes the solar system
			• Key dates: Installations will be complete by early 2024

Stream 3 – Neighbourhood-scale batteries	Objective statement is yet to be defined but may include: • Increased grid reliability • Industry development • Downward pressure on electricity prices.	TBC	This stream is in the policy design and feasibility analysis phase. Support has been provided to the Suburban Land Agency on the Jacka battery procurement. This stream is likely include partnership with Evoenergy on Commonwealth funded community batteries in the ACT.

Cleared as complete and accurate: 19/07/2023
Cleared for public release by: Executive Branch Manager Ext:
Contact Officer name: Kieran Lawton Ext: 6205 3434
Lead Directorate: Chief Minister, Treasury and Economic Development

TRIM Ref: CM23/77154

BIG CANBERRA BATTERY

Talking points:

- The Government has committed to a distributed network of large-scale battery storage systems through the Big Canberra Battery Project.
- The Project is planned to be delivered in three streams, which will see a variety of batteries installed across the transmission and distribution networks, and at ACT Government sites.
- It is anticipated that the Project will deliver on a range of financial, electricity network and emissions reductions objectives.

Key Information

Big Canberra Battery Project overview

- Action A1(v) of the Parliamentary and Governing Agreement specifies a commitment to deliver at least 250 MW of new 'large-scale' battery storage distributed across the ACT.
- The Big Canberra Battery project is expected to deliver a number of batteries across the Territory including large-scale transmission connected batteries, smaller 'neighbourhood-scale' batteries and behind-the-meter batteries at ACT Government sites such as schools and maintenance depots.
- The ACT Government has committed funding of $100m to deliver the initiative. Expenses funding for 2020-21 and 2021-22 has been provided in the 2020-21 Budget, while capital funding for the project ($95.8 million) and expenses funding from 2022-23 were provisioned.
- The Project is expected to deliver new revenue sources and/or cost savings to the Territory; support grid reliability while helping to integrate greater amounts of renewable electricity; and put downwards pressure on prices in the ACT and broader network.
- Phase 1 of the Project comprised a market sounding process to gauge industry interest and capability and to give industry the opportunity to provide input on the engagement process, role of government and design considerations.
- Independent analysis of the market sounding outcomes was undertaken by the Utilities Technical Regulator and commercial consultant (Baringa Partners), to consider the viability of recommendations with respect to the ACT Government's objectives and interests.
- Work undertaken in Phase 1 has established three primary Project streams for delivery:
    - Stream 1 – Large, grid-connected batteries: Large batteries primarily on the transmission network.

  - Stream 2 – Batteries at Government sites: Batteries at Government sites such as schools and maintenance depots.
  - Stream 3 – Neighbourhood-scale batteries: Medium sized grid-connected batteries on the distribution grid, with a focus on projects trialling community investment models or innovative technical parameters such as battery chemistry and capability.
- Table 1 provides further detail on the streams, including features, objectives, anticipated procurement approach, status and timelines.

Stream 1 considerations

Concept design

- Large-scale batteries can provide a number of services and access a number of value streams. Batteries delivered under Stream 1 will be required to deliver energy and ancillary services to the National Electricity Market (NEM).
- Battery developers will optimise the operation of the battery to maximise revenue while minimising the degradation of the battery. It is expected that most of the revenue will come from Frequency Control Ancillary Services (FCAS) and wholesale energy market arbitrage.

Commercial model

- Financial modelling and analysis have resulted in two 'contract for output' commercial models being shortlisted for the procurement process. The Stream 1 EOI will seek industry feedback on these models.
  - Virtual Storage – A 'Virtual Storage' contract fixes the price for the top and bottom intervals of the day in exchange for a fixed hourly fee. This would fix the daily spread for a battery and provide the battery developer with a fixed hourly cashflow.
  - Revenue share – A revenue share arrangement involves the Territory paying a fixed annual sum in exchange for a fixed percentage of total project revenue from the battery developer. Under a revenue share, the battery developer is responsible for all control and management of the battery.

Sites

- Nine sites (or parts of sites) for which the Territory is the custodian have been identified. The Territory may agree to grant a crown lease, sublease or licence at market rates to successful proponents for these sites which are in the vicinity of transmission or distribution substations. Proponents can nominate to use other sites within the ACT.
- Proponents are responsible for securing a suitable site and for obtaining all approvals to secure and develop batteries at the site.

Social and environmental sustainability outcomes

- The opportunity for noteworthy social and environmental outcomes is being explored.
- A social and environmental sustainability plan was required at the EOI stage which includes, as a minimum, a site remediation plan and a battery recycling plan.
- The responses received in the EOI have been used to develop a social and environmental sustainability requirement that balances ambition and achievability.

Background Information

<u>The role of large-scale battery storage in a zero emissions future</u>

- Existing fossil fuel generation is retiring and is being replaced by renewables that are cheaper but have intermittent generation.
- This is likely to happen sooner than the technical lifespan of fossil fuel generators, with little notice. New South Wales will be the state most impacted in the near term, which also impacts the ACT as it is included in the NSW National Energy Market (NEM) Jurisdiction.
- The lack of coordinated national action in managing the transition is expected to lead to higher electricity prices, lower reliability and worse emissions outcomes than if the transition is managed well. Support from batteries will assist in managing the transition.
- Large-scale battery storage is faster, cheaper and more flexible than gas peaker plants and they are the ideal technology to firm renewables into the grid without relying on fossil fuels.
- Securing financing for battery projects can be difficult, due to uncertainties around revenue and national policy. Stream 1 of the Project would see the Territory share market risk on behalf of project developers, in exchange for a potential return to the Territory.
- Battery storage in the ACT is expected to grow significantly under existing policies and projects including: the Big Canberra Battery project; the Next Generation Energy Storage Program; the Sustainable Household Scheme; Renewables Auction 5 batteries; private, community or network batteries and ACT Government owned batteries.

Status of battery storage in the ACT

- Existing batteries in the ACT and those under development are shown below.

Battery owner	Location	Size (MW)	Details
Individual households/businesses	Mostly residential sites in the ACT	14.75 total	This is the capacity installed under the ACT Government's Next Gen Program.
Neoen	Oaks Estate	100	Under construction. To be delivered as part of a contract signed with the ACT Government in 2020 for Renewables Auction 5.
GPG	Oaks Estate	10	To be delivered as part of a contract signed with ACT Government in 2020 for Renewables Auction 5. Construction complete and undergoing testing. AEMO has recently approved its registration application. Received a provision of service operating certificate.
Elvin Group	West Belconnen	2.5	Operating.
CWP Storage	Strathnairn	0.25	Under construction.
Neoen	West Belconnen	300	Referred for federal environmental impact assessment in March 2021.

Table 1: Big Canberra Battery Project – Primary Streams of Delivery

Stream Description	Features	Objectives	Procurement Approach	Procurement Timelines
Stream 1 –Large, grid-connected batteries: Primarily on the transmission network.	Battery size: >10 MW Ownership: Developers retain ownership and control of the batteries. 'Contract for output' established between Territory and developers	• Deliver 250 MW of storage. • Support grid reliability and help to integrate greater amounts of renewable generation in the NEM. • Deliver new revenue sources to the Territory. • Put downward pressure on prices in the ACT and broader network.	Two stage process: 1. Stage 1: Expression of Interest (EOI). Aims to inform the RFP development (test contract duration, preferred commercial model, etc), and shortlist proponents for the RFP. 2. Stage 2: Request for Proposals (RFP). Strategic and Procurement Review undertaken by Government Procurement Board.	EOI was open 15 Dec 2021 to 11 Feb 2022 RFP open Q1, 2022-23, contracting late 2023 Construction start dependent on maturity of successful projects selected through RFP.
Stream 2 - Batteries at Government sites: Like schools, maintenance depots etc.	Battery size: 5 kW to 250 kW (Tailored, based on site's electricity use and solar generation). Ownership: Site owner. Other: May include virtual power plant (VPP) services to access additional forms of revenue.	First tranche/trial: • Reduced cost of electricity for ACT Government sites. Subsequent tranches may focus on alternate objectives such as reliability of supply, support for the distribution grid and avoided augmentation costs as sites transition to being all-electric.	Single stage RFP Depending on outcomes of the trial, a further two RFPs may be released, approximately annually.	RFP released Q1 2022-23; contracting Q4 2022-23.
Stream 3 – Neighbourhood-scale batteries: Medium sized grid-connected batteries on the distribution grid, with a focus on projects trialling community investment models or innovative technical parameters such as battery chemistry and capability.	Battery size: 500 kW to 5 MW Three potential focus areas include: • Distribution network support batteries; • Community batteries; and • Innovative trials of commercial models and technical solutions	Objective statement will be developed following further refinement of this stream but may include: • Increased grid reliability • Industry development • Downward pressure on electricity prices.	TBC	Stream 3 is being planned during 2022 and will be the subject of a future business case.

BUDGET ESTIMATES BRIEF

Portfolio: Climate Action

BIG CANBERRA BATTERY

Talking points:

- The Government has committed to a distributed network of large-scale battery storage (LSBS) systems through the Big Canberra Battery project.
- This flexible approach provides an opportunity to acquire a range of LSBS services that can be customised to achieve financial, electricity network and emissions reductions objectives.

Key Information

Big Canberra Battery project

- Action A1(i) of the Parliamentary and Governing Agreemeement specifies a commitment to deliver at least 250 MW of new 'large-scale' battery storage distributed across the ACT.
- The Big Canberra Battery project is expected to deliver a number of batteries across the Territory, including large-scale transmission connected batteries, smaller 'suburb-scale' batteries, and facility batteries at government sites like bus depots.
- The ACT Government has committed funding of $100m over five years to 2024-25. Expenses funding for 2020-21 and 2021-22 has been provided in the 2020-21 Budget, while capital funding for the project ($95.8 million) and expenses funding from 2022-23 were provisioned.
- The Big Canberra Battery project is expected to deliver the primary benefits of providing an ongoing financial benefit to the ACT Government and improving grid reliability and stability.
- The project is also expected to deliver: downward pressure on electricity prices for ACT consumers; economic growth and diversification; enhanced reputation as the 'clean energy capital'; and co-benefits for other ACT Government climate change initiatives such as increased uptake of electric vehicles and phasing out of gas.
- Phase 1 of the project comprises a market sounding and expression of interest process to test the market and determine what types of packages of services and infrastructure the market can provide. It is due to be completed by 30 June 2021.

Contact Officer name: Daniel Harding Ext:62077533
Lead Directorate: Environment, Planning and Sustainable Development

Background Information

What is battery storage?

- Batteries are an energy storage technology that uses chemicals to absorb and release energy on demand. Lithium-ion is the most common battery chemistry used to store electricity.
    - Lithium ion is emerging as the preferred technology for all forms of batteries due to its superior technical capabilities, modular design options and cost effectiveness.
- Coupling batteries with renewable energy generation allows that energy to be stored during times of low demand and released (or dispatched) at times of peak demand.
- The use of large-scale battery energy storage in Australia is expected to grow due to technological advances and rapid cost declines.
- Batteries can be located in a range of areas and installed in small or large quantities for different uses. For example:
    - Large numbers of batteries installed together, known as grid-scale or large-scale battery storage (LSBS), can act as a large-scale power generator connected into the electricity transmission system.
        - Large-scale batteries greater than 5 megawatts (MW) connect to the high voltage transmission (TransGrid) network. Medium-small scale batteries, approximately 200 kilowatts (kW) to 5 MW connect to the distribution (Evoenergy) network.
    - Smaller-scale batteries can be installed in homes to provide backup power, but can also be operated as a collective in what is called a Virtual Power Plant (VPP).
        - VPP is a cloud-based network of distributed energy resources – such as homes and commercial buildings with solar and battery systems – all working together as a single power plant.
        - When a certain consumer has run out of energy he can have access to other sources or should a generation point have spare energy available it can be shared with other consumers.
        - The VPP operator uses WiFi technology and sophisticated software to charge or discharge energy from the batteries and trade it on the National Energy Market (NEM).
- Batteries are a “distributed energy resource” (DER). DERs are renewable energy units or systems that are commonly located at houses or businesses to provide them with power. Another name for DER is “behind the meter” because the electricity is generated or managed ‘behind’ the electricity meter in the home or business.
- Currently the largest energy storage battery in Australia is Neoen's 150 MW Hornsdale Power Reserve (known as the ‘Tesla Big Battery’) in South Australia. In the

first two years of operation, total revenue from the battery exceeded its construction cost (around $96 million) and is estimated to have saved consumers $150 million.

Benefits of batteries

Services provided by batteries include:

- Revenue capture. Larger batteries have the capability to capture higher revenues compared to small and medium scale batteries especially due to their capability to respond to the National Electricity Market (NEM) requirements at rapid rates.
- Support to integrate renewable energy in the electricity grid. As variable renewable energy resources (such as wind and solar) increase, battery storage becomes increasingly important. Large-scale batteries can provide synthetic inertia to increase the security of the grid.
- Network upgrade deferment and support. Batteries can help postpone the need for investment in network upgrades, putting downward pressure on electricity costs for consumers.
- Reduced grid frequency fluctuations. Large-scale energy storage batteries can deliver Frequency Control and Ancillary Services (FCAS). Providing FCAS helps to stabilise the electricity grid by either injecting or absorbing power to compensate for excessive drops or rises in the grid frequency. Batteries are effective in managing frequency as they can respond almost instantaneously and predictably.
    - The power system requires that both generation and load are in balance in order to operate safely. If there is a variation in generation without a corresponding variation in load then the frequency of the power system will deviate, which can lead to instability or, at extreme levels, cascading failure and blackouts.
    - FCAS is a process used by the energy market operator to maintain the frequency of the system within the normal operating band around 50 cycles per second.
- Reduced probability of blackouts during periods of high demand. Batteries can play a role in reducing the occurrence and severity of load shedding when demand for electricity exceeds supply.

Status of battery storage in the ACT

- The ACT battery ecosystem currently includes approximately 8 MW of capacity, mostly at residential properties. These residential batteries range from 5 to 40 kW capacity.
- Battery storage in the ACT is expected to grow significantly under existing policies and projects including: the Big Canberra Battery project; the Next Generation Energy Storage Program; Renewables Auction 5 batteries; private, community or network batteries and ACT Government owned batteries.

BUDGET ESTIMATES BRIEF

Portfolio: Climate Action

BIG CANBERRA BATTERY

Talking points:

- The Government has committed to a distributed network of large-scale battery storage (LSBS) systems through the Big Canberra Battery project.
- This flexible approach provides an opportunity to acquire a range of LSBS services that can be customised to achieve financial, electricity network and emissions reductions objectives.

Key Information

Benefits of batteries

Services provided by batteries include:

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Big Canberra Battery project

- Action A1(i) of the Parliamentary and Governing Agreemeement specifies a commitment to deliver at least 250 MW of new ‘large-scale’ battery storage distributed across the ACT.
- The Big Canberra Battery project is expected to deliver a number of batteries across the Territory, including large-scale transmission connected batteries, smaller ‘suburb-scale’ batteries, and facility batteries at government sites like bus depots.

Contact Officer name: Daniel Harding Ext:62077533
Lead Directorate: Environment, Planning and Sustainable Development

- The ACT Government has committed funding of $100m over five years to 2024-25. Expenses funding for 2020-21 and 2021-22 has been provided in the 2020-21 Budget, while capital funding for the project ($95.8 million) and expenses funding from 2022-23 were provisioned.
- The Big Canberra Battery project is expected to deliver the primary benefits of providing an ongoing financial benefit to the ACT Government and improving grid reliability and stability.
- The project is also expected to deliver: downward pressure on electricity prices for ACT consumers; economic growth and diversification; enhanced reputation as the 'clean energy capital'; and co-benefits for other ACT Government climate change initiatives such as increased uptake of electric vehicles and phasing out of gas.
- Phase 1 of the project comprises a market sounding and expression of interest process to test the market and determine what types of packages of services and infrastructure the market can provide. It is due to be completed by 30 June 2021.

Background Information

<u>General battery information</u>

- LSBS provide a range of services to electrical transmission and distribution networks.
- Large-scale batteries greater than 5 megawatts (MW) connect to the high voltage transmission (TransGrid) network. Medium-small scale batteries, approximately 200 kilowatts (kW) to 5 MW connect to the distribution (Evoenergy) network.
- Lithium ion is emerging as the preferred technology for all forms of batteries due to its superior technical capabilities, modular design options and cost effectiveness.
- The use of large-scale battery energy storage in Australia is expected to grow due to technological advances and rapid cost declines.
- Currently the largest energy storage battery in Australia is Neoen's 150 MW Hornsdale Power Reserve (known as the 'Tesla Big Battery') in South Australia. In the first two years of operation, total revenue from the battery exceeded its construction cost (around $96 million) and is estimated to have saved consumers $150 million.

<u>Status of battery storage in the ACT</u>

- The ACT battery ecosystem currently includes approximately 8 MW of capacity, mostly at residential properties. These residential batteries range from 5 to 40 kW capacity.
- Battery storage in the ACT is expected to grow significantly under existing policies and projects including: the Big Canberra Battery project; the Next Generation Energy Storage Program; Renewables Auction 5 batteries; private, community or network batteries and ACT Government owned batteries.

BUDGET ESTIMATES BRIEF

Portfolio: Climate Action

BIG CANBERRA BATTERY

Talking points:

- The Government has committed to a distributed network of large-scale battery storage (LSBS) systems through the Big Canberra Battery project.
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Big Canberra Battery project

- Action A1(i) of the Parliamentary and Governing Agreemeement specifies a commitment to deliver at least 250 MW of new 'large-scale' battery storage distributed across the ACT.
- The Big Canberra Battery project is expected to deliver a number of batteries across the Territory, including large-scale transmission connected batteries, smaller 'suburb-scale' batteries, and facility batteries at government sites like bus depots.
- The ACT Government has committed funding of $100m over five years to 2024-25. Expenses funding for 2020-21 and 2021-22 has been provided in the 2020-21 Budget, while capital funding for the project ($95.8 million) and expenses funding from 2022-23 were provisioned.
- The Big Canberra Battery project is expected to deliver the primary benefits of providing an ongoing financial benefit to the ACT Government and improving grid reliability and stability.
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- Phase 1 of the project comprises a market sounding and expression of interest process to test the market and determine what types of packages of services and infrastructure the market can provide. It is due to be completed by 30 June 2021.

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Lead Directorate: Environment, Planning and Sustainable Development

Background Information

What is battery storage?

- Batteries are an energy storage technology that uses chemicals to absorb and release energy on demand. Lithium-ion is the most common battery chemistry used to store electricity.
    - Lithium ion is emerging as the preferred technology for all forms of batteries due to its superior technical capabilities, modular design options and cost effectiveness.
- Coupling batteries with renewable energy generation allows that energy to be stored during times of low demand and released (or dispatched) at times of peak demand.
- The use of large-scale battery energy storage in Australia is expected to grow due to technological advances and rapid cost declines.
- Batteries can be located in a range of areas and installed in small or large quantities for different uses. For example:
    - Large numbers of batteries installed together, known as grid-scale or large-scale battery storage (LSBS), can act as a large-scale power generator connected into the electricity transmission system.
        - Large-scale batteries greater than 5 megawatts (MW) connect to the high voltage transmission (TransGrid) network. Medium-small scale batteries, approximately 200 kilowatts (kW) to 5 MW connect to the distribution (Evoenergy) network.
    - Smaller-scale batteries can be installed in homes to provide backup power, but can also be operated as a collective in what is called a Virtual Power Plant (VPP).
        - VPP is a cloud-based network of distributed energy resources – such as homes and commercial buildings with solar and battery systems – all working together as a single power plant.
        - When a certain consumer has run out of energy he can have access to other sources or should a generation point have spare energy available it can be shared with other consumers.
        - The VPP operator uses WiFi technology and sophisticated software to charge or discharge energy from the batteries and trade it on the National Energy Market (NEM).
- Batteries are a “distributed energy resource” (DER). DERs are renewable energy units or systems that are commonly located at houses or businesses to provide them with power. Another name for DER is “behind the meter” because the electricity is generated or managed ‘behind’ the electricity meter in the home or business.
- Currently the largest energy storage battery in Australia is Neoen's 150 MW Hornsdale Power Reserve (known as the ‘Tesla Big Battery’) in South Australia. In the

first two years of operation, total revenue from the battery exceeded its construction cost (around $96 million) and is estimated to have saved consumers $150 million.

Benefits of batteries

Services provided by batteries include:

- Revenue capture. Larger batteries have the capability to capture higher revenues compared to small and medium scale batteries especially due to their capability to respond to the National Electricity Market (NEM) requirements at rapid rates.
- Support to integrate renewable energy in the electricity grid. As variable renewable energy resources (such as wind and solar) increase, battery storage becomes increasingly important. Large-scale batteries can provide synthetic inertia to increase the security of the grid.
- Network upgrade deferment and support. Batteries can help postpone the need for investment in network upgrades, putting downward pressure on electricity costs for consumers.
- Reduced grid frequency fluctuations. Large-scale energy storage batteries can deliver Frequency Control and Ancillary Services (FCAS). Providing FCAS helps to stabilise the electricity grid by either injecting or absorbing power to compensate for excessive drops or rises in the grid frequency. Batteries are effective in managing frequency as they can respond almost instantaneously and predictably.
    - The power system requires that both generation and load are in balance in order to operate safely. If there is a variation in generation without a corresponding variation in load then the frequency of the power system will deviate, which can lead to instability or, at extreme levels, cascading failure and blackouts.
    - FCAS is a process used by the energy market operator to maintain the frequency of the system within the normal operating band around 50 cycles per second.
- Reduced probability of blackouts during periods of high demand. Batteries can play a role in reducing the occurrence and severity of load shedding when demand for electricity exceeds supply.

Status of battery storage in the ACT

- The ACT battery ecosystem currently includes approximately 8 MW of capacity, mostly at residential properties. These residential batteries range from 5 to 40 kW capacity.
- Battery storage in the ACT is expected to grow significantly under existing policies and projects including: the Big Canberra Battery project; the Next Generation Energy Storage Program; Renewables Auction 5 batteries; private, community or network batteries and ACT Government owned batteries.

Issue: Climate action announceables

Timeframe	Commitment	Announceable
Out of scope		
Late 2021	A1.v – Big Canberra Battery	Market sounding and EOI
Out of scope		
November 2021	A1.v – Big Canberra Battery	Possible commencement of procurement
Out of scope		
July 2022	A1.v – Big Canberra Battery	Commencement of construction for individual projects
Out of scope		