

# **SNOWY 2.0 TRANSMISSION CONNECTION PROJECT**

## **BIODIVERSITY OFFSETS PACKAGE**

March 2025



## **Version History**

| Version | Date             | Prepared by            | Reviewed by                         | Comments   |
|---------|------------------|------------------------|-------------------------------------|--|
| 1.0     | 12 January 2023  | Nathan Garvey<br>(EMM) | Brett McLennan<br>(EMM)             | Draft for comment  |
| 2.0     | 14 March 2023    | Nathan Garvey<br>(EMM) | Brett McLennan<br>(EMM)             | Final for issue  |
| 3.0     | 31 May 2023      | Nathan Garvey<br>(EMM) | Brett McLennan<br>(EMM)             | Minor changes and updates                                |
| 4.0     | 23 August 2023   | Nathan Garvey<br>(EMM) | _                                   | Changes based on feedback from BCD                       |
| 5.0     | 29 November 2024 | Nathan Garvey<br>(N+A) | Charlie Litchfield<br>(Snowy Hydro) | Revision following approval of Modification 1            |
| 6.0     | 18 March 2025    | Nathan Garvey<br>(N+A) | Alex Bolte<br>(Snowy Hydro)         | Minor changes to clarify offset arrangements for PCT 285 |



## **Executive Summary**

The Snowy 2.0 project is a large-scale pumped hydro-electric storage and generation project being developed by Snowy Hydro Limited (Snowy Hydro) and their partner Future Generation Joint Venture (FGJV). It will increase hydro-electric capacity within the existing Snowy Mountains Hydro-electric Scheme and is critical to underpinning system security and reliability as Australia transitions to a decarbonised economy.

A new transmission connection is required to connect Snowy 2.0 to the National Energy Market (NEM). The Transmission Connection Project (the project) will include a new 500/330 kilovolt (kV) substation, two 330 kV double-circuit overhead transmission lines, and the construction of new access tracks and upgrade of existing access tracks. The project was approved by the NSW Minister for Planning on 2 September 2022, with specific conditions including the requirement for a Biodiversity Offset Package (BOP). This approval was modified in August 2024 providing an extension to the timeframe for implementation and delivery of biodiversity offset measures from 1 September 2024 to 1 September 2025.

The project has an offset obligation for impacts outside Kosciuszko National Park (KNP) under the NSW Biodiversity Offsets Scheme (BOS). The proponent has several options to meet this obligation, including the retirement of like-for-like credits, retirement of credits in accordance with the variation rules, or payment into the Biodiversity Conservation Fund (BCF). The BOP for the project includes a combination of like-for-like credits, credits under the variation rules and payment into the BCF to meet the residual offset liability.

At the time of preparation of the BOP in May 2023, limited credits were available that would be suitable to offset the project. Since this time, Snowy Hydro has worked with four landholders in the Tumbarumba area, progressing to submission of applications for Biodiversity Stewardship Agreements (BSAs). Two of these applications were later withdrawn, whilst two progressed through to approval and credits have been or are in the process of being transferred to Snowy Hydro.

Snowy Hydro is actively securing credits from the market under the like-for-like rules and has secured or is in the process of securing 1,364 ecosystem credits and 3,990 species credits. It is anticipated that Snowy Hydro will have a residual offset liability for the Gang-gang Cockatoo that is unlikely to be met via retirement of like-for-like credits. Snowy Hydro has now taken all reasonable steps to secure like-for-like credits. Review of the credit registers and engagement with credit holders is ongoing; however, Snowy Hydro is exploring options to secure credits under the variation rules.

The residual credit liability will be met through payment into the BCF in mid-2025. All offset obligations will be able to be met by 1 September 2025.



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## 1 Introduction

### 1.1 Project overview

Snowy Hydro Ltd (Snowy Hydro) and its partner, Future Generation Joint Venture (FGJV), are developing Snowy 2.0, a large-scale pumped hydro-electric storage and generation project which will increase hydro-electric capacity within the existing Snowy Mountains Hydro-electric Scheme (Snowy Scheme). Snowy 2.0 is the largest committed renewable energy project in Australia and is critical to underpinning system security and reliability as Australia transitions to a decarbonised economy. Snowy 2.0 will link the existing Tantangara and Talbingo reservoirs within the Snowy Scheme through a series of underground tunnels and hydro-electric power station.

To connect Snowy 2.0 to the National Energy Market (NEM), a new transmission connection is required. NSW Electricity Networks Operations Pty Ltd as a trustee for NSW Electricity Operations Trust (known as Transgrid) sought approval under Part 5, Division 5.2 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) for the construction and operation of the Snowy 2.0 Transmission Connection Project (the project) to enable the grid connection of Snowy 2.0 to the NEM.

The key elements of the project are shown on Figure 1 and include:

- a new 500/330 kilovolt (kV) substation located within Bago State Forest and adjacent to Transgrid's existing Transmission Line 64 (Line 64)
- two 330 kV double-circuit overhead transmission lines, approximately 9 kilometres (km) long, linking the Snowy 2.0 cable yard in Kosciuszko National Park (KNP) to the new substation
- a short overhead transmission line connection between the substation and Line 64
- construction of new access tracks and upgrade of existing access tracks where required to facilitate the construction of the transmission lines and substation and service ongoing maintenance activities
- establishment of temporary sites and infrastructure needed during construction including crane pads, site compounds, a helipad, and equipment laydown (Jacobs 2021).

The project was approved by the NSW Minister for Planning on 2 September 2022 and the Commonwealth Minister for the Environment on 21 October 2022. On 30 August 2024 the Director, Energy Assessments of the NSW Department of Planning, Housing and Infrastructure (DPHI) approved Modification 1 to the Infrastructure Approval for an extension to the timeframe for implementation and delivery of biodiversity offset measures from 1 September 2024 to 1 September 2025. A copy of the NSW Infrastructure Approval (SSI 9717) can be found on the DPHI major projects website at:

https://www.planningportal.nsw.gov.au/major-projects/projects/snowy-20-transmission-connection

A copy of the Commonwealth EPBC Act approval can be found on the Department of Climate Change, Energy, the Environment and Water's (DCCEEW's) website at:

https://epbcpublicportal.awe.gov.au/ entity/sharepointdocumentlocation/9aaefe86-1f2f-ed11-9db10022481867fa/2ab10dab-d681-4911-b881-cc99413f07b6?file=2018-8363-Approval-Decision.pdf

## 1.2 Conditions of approval

The NSW Infrastructure Approval (SSI 9717) contains several conditions which aim to:

- prevent, minimise, or offset adverse environmental impacts of the project
- set standard and performance measures for acceptable environmental performance
- require regular monitoring and reporting

provide for the ongoing environmental management of the project.

There are a number of conditions in Infrastructure Approval SSI 9717 relating to the management of biodiversity, including conditions B18 and B19, which set out the requirement for a Biodiversity Offset Package (BOP) and a bank guarantee, respectively.

#### Condition B18 states:

Prior to carrying out any development that would impact on biodiversity values outside Kosciuszko National Park, the Proponent must prepare a Biodiversity Offset Package (Package) that is consistent with the EIS, in consultation with BCS and BCT, to the satisfaction of the Planning Secretary in writing. The Package must include, but not necessarily be limited to:

- (a) details of the specific biodiversity offset measures to be implemented and delivered in accordance with the EIS;
- (b) the cost for each specific biodiversity offset measures, which would be required to be paid into the
  - NSW Government Department of Planning and Environment 10 Snowy 2.0 Transmission Connection
  - (SSI 9717) Biodiversity Conservation Fund if the relevant measures is not implemented and delivered (as calculated in accordance with Division 6 of the Biodiversity Conservation Act 2016 (NSW)) and the offset payment calculator that was established as of 9 August 2021;
- (c) the timing and responsibilities for the implementation and delivery of measures required in the Package; and
- (d) confirmation that the biodiversity offset measures will have been implemented and delivered by no later than 1 September 2025.

Following approval, the Proponent must implement and deliver the Biodiversity Offset Package.

#### Condition B19 states:

Prior to carrying out any development outside of the Kosciuszko National Park that could impact the biodiversity values requiring offset, the Proponent or its nominee must lodge a bank guarantee with a total value of \$24,869,236, in accordance with the Deed of Agreement with the Planning Secretary executed on 1 September 2022. The Proponent must comply with the terms of the Deed.

#### Condition C2 states:

The Proponent must review and, if necessary, revise the strategies, plans or programs required under this approval to the satisfaction of the Planning Secretary within 3 months of the:

- (a) the submission of an incident report under condition C7;
- (b) the submission of an Independent Audit under condition C10;
- (c) the approval of any modification of the conditions of this approval; or
- (d) the issue of a direction of the Planning Secretary under condition A2 which requires a review.

Condition 7 of the Commonwealth EPBC Act approval requires the residual impacts of the project to be offset in accordance with the NSW Infrastructure Approval. It states:

To offset the impacts of the Action on protected matters, the approval holder must implement conditions B18, B19 and B20 of the State Infrastructure Approval.

This BOP has been prepared to address the requirements of Condition B18 of the NSW Infrastructure Approval and was updated in November 2024 to address the requirement of Condition C2 to review and, if necessary, revise the BOP following approval of Modification 1. The requirement for the bank guarantee is also discussed in this BOP (see Section 4).

### 1.3 Offset requirements

Impacts and offset requirements for the project have been determined by Jacobs in the *Biodiversity Development Assessment Report Snowy 2.0 Transmission Connection Project* (BDAR) (Jacobs, 2022). While Jacobs (2022) assesses impacts and required offsets within both the Australian Alps and South Eastern Highlands Interim Biogeographic Regionalisation of Australia (IBRA) regions, this BOP only considers impacts and offsets outside KNP in accordance with Condition B18 of Infrastructure Approval SSI 9717 and the mechanisms outlined in the NSW Biodiversity Offsets Scheme (BOS).

The project will result in clearing of approximately 118 hectares (ha) of native vegetation and habitat for threatened species, including approximately 44 ha of clearing outside KNP. Offset requirements for impacts outside KNP, including ecosystem and species credits, are summarised in Table 1. The credit calculations are based upon the transmission connection layout as proposed in the *Amendment Report Snowy 2.0 Transmission Connection Project* (Transgrid, 2022) and the BDAR (Jacobs, 2022). The credits required to be offset may be less than what is set out in the below tables, subject to final design refinement.

Table 1 Offset requirements for impacts outside KNP

| Plant community type (PCT) or species  | Offset trading group   | Total credits |
|--|--|---------------|
| Ecosystem credits  |  |               |
| PCT 285 - Broad-leaved Sally grass – sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion   | Upper Riverina Dry<br>Sclerophyll Forests;<br>>=70% and <90% | 87            |
| PCT 300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane<br>fern - grass tall open forest on deep clay loam soils in the upper NSW South<br>Western Slopes Bioregion and western Kosciuszko escarpment | Southern Tableland Wet<br>Sclerophyll Forests; <50%          | 452           |
| PCT 1196 - Snow Gum - Mountain Gum shrubby open forest of montane areas, South Eastern Highlands Bioregion and Australian Alps Bioregion   | Subalpine Woodlands; <50%                                    | 825           |
| Total ecosystem credits  |  | 1,364         |
| Species credits  |  |               |
| Gang-gang Cockatoo (Callocephalon fimbriatum)  | -  | 1,721         |
| Eastern Pygmy-possum (Cercartetus nanus)   | -  | 1,789         |
| Yellow-bellied Glider ( <i>Petaurus australis</i> ) endangered population on the Bago Plateau  | -  | 1,697         |
| Masked Owl (Tyto novaehollandiae)  | -  | 417           |
| Total species credits  |  | 5,624         |
| Total credits  |  | 6,988         |

## 1.4 Consultation

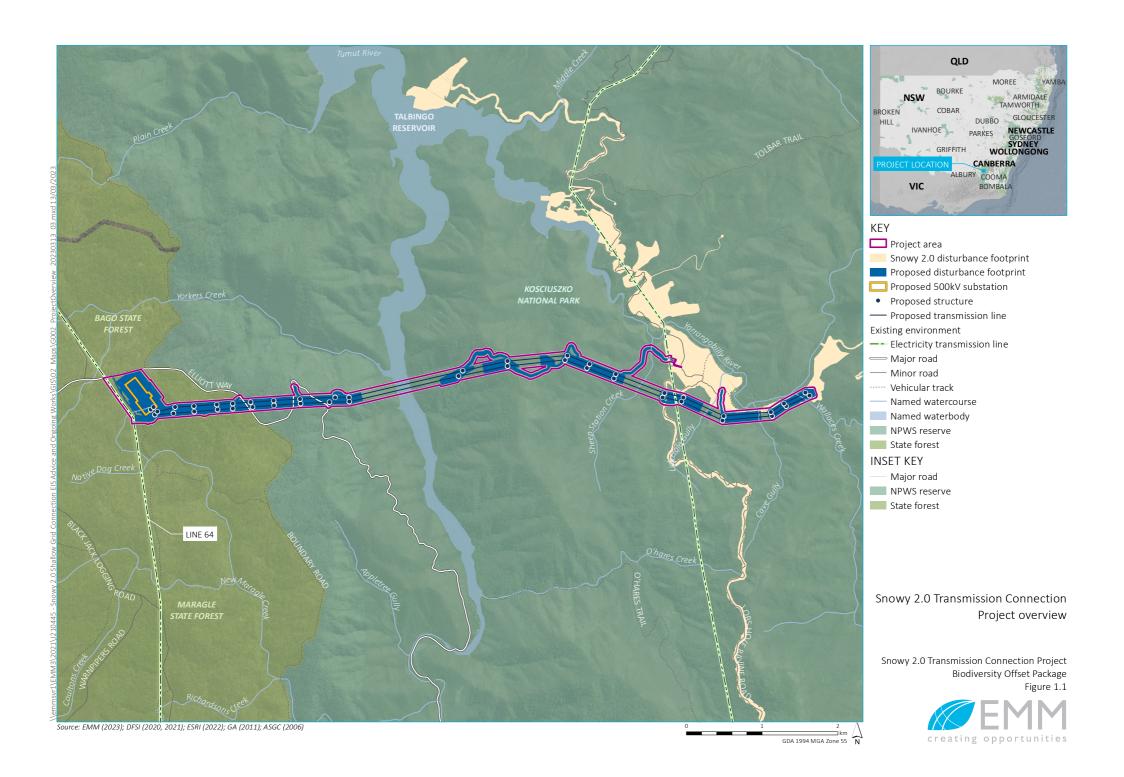
This BOP has been prepared in consultation with the NSW Department of Climate Change, Energy, the Environment and Water (DCCEEW). A briefing was provided to DCCEEW in December 2022 which included an overview of the structure of the BOP, an update on the status of efforts to identify offset sites, including an estimate of credits generated at shortlisted sites and next steps.

The BOP was provided to DCCEEW in August 2023.

The BOP was updated in November 2024 and consultation was undertaken with DCCEEW in December 2024. DCCEEW responded in February 2025 and had no comments.

Consultation with the Biodiversity Conservation Trust (BCT) was undertaken by Snowy Hydro in November 2024 following the update to the BOP. BCT have been contacted for a briefing on updates to the BOP.

At the request for DCCEEW and DPHI, regular six-monthly updates will be provided on the status of the BOP and actions herein.



## 2 Biodiversity offset scheme overview

Under the BOS, several pathways are available to meet the offset obligation arising from the project for impacts outside KNP. These pathways are shown in Plate 1.

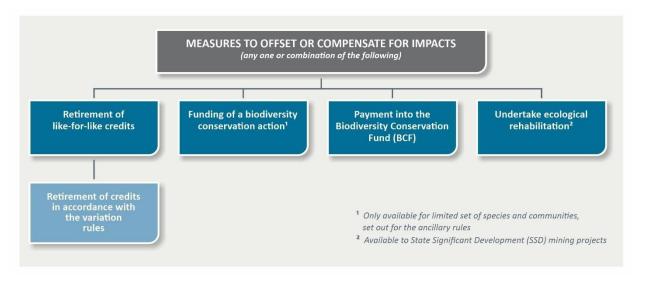


Plate 1 NSW Biodiversity Offset Scheme offset options

Funding of a biodiversity conservation action is only available for a limited set of species and communities, as set out in the *Ancillary rules: Biodiversity conservation actions* (OEH, 2017). The project is not a State significant development (SSD) mining project and thus ecological rehabilitation is not available. This means that offsets will need to be provided via retirement of like-for-like credits, retirement of credits in accordance with the variation rules, or payment into the Biodiversity Conservation Fund (BCF).

The various options available to meet the offset requirements of the project for impacts occurring outside of KNP are discussed below.

#### 2.1 Retirement of like-for-like credits from existing sites

The rules for like-for-like credits are outlined in section 6.3 of the NSW Biodiversity Conservation Regulation 2017 (BC Regulation). This states:

- (2) In the case of impacts on threatened ecological communities, like-for-like biodiversity credits represent—
  - (a) the same threatened ecological community located in—
    - the same or an adjoining Interim Biogeographic Regionalisation of Australia subregion as the impacted site, or
    - (ii) any such subregion that is within 100 kilometres of the outer edge of the impacted site, and
  - (b) if the threatened ecological community contains hollow bearing trees—vegetation that contains hollow bearing trees.
- (3) In the case of impacts on the habitat of threatened species that are ecosystem credit species or other native vegetation (other than impacts on threatened ecological communities), like-for-like biodiversity credits represent—
  - (a) the same class of native vegetation located in-

- (i) the same or an adjoining Interim Biogeographic Regionalisation of Australia subregion as the impacted site, or
- (ii) any such subregion that is within 100 kilometres of the outer edge of the impacted site, and
- (b) the same or a higher offset trading group, and
- (c) if the impacted habitat contains hollow bearing trees—vegetation that contains hollow bearing trees.
- (4) In the case of impacts on threatened species that are species credit species, like-for-like biodiversity credits represent the same threatened species.

The IBRA subregions within 100 km of the outer edge of the project from which credits can be used to offset impacts arising from the project are outlined in Table 2.

Table 2 IBRA subregions within 100 km of the outer edge of the project

| IBRA region              | IBRA subregion            |
|--------------------------|---------------------------|
| Australian Alps          | Snowy Mountains           |
| Australian Alps          | Victorian Alps            |
| NSW South Western Slopes | Inland Slopes             |
|                          | Lower Slopes              |
| Riverina                 | Victorian Riverina        |
| South East Corner        | South East Coastal Ranges |
| South Eastern Highlands  | Bondo                     |
|                          | Highlands-Northern Fall   |
|                          | Kybeyan-Gourock           |
|                          | Monaro                    |
|                          | Murrumbateman             |

At the time of preparation of the BOP in May 2023, limited credits were available that would be suitable as offsets for the project, with no credits available under the Biodiversity Assessment Method (BAM) that would meet project needs. Since this time, Snowy Hydro has been able to progress assessment of a number of potential offset sites and Biodiversity Stewardship Agreements (BSAs) have been approved for two sites and credits transferred to Snowy Hydro (see Section 3.1). Some credits have been or are in the process of being secured from the market. Table 3 provides a summary of credits secured or in the process of being secured to date (March 2025).

Table 3 Summary of like-for-like credits available to offset impacts of project for impacts outside KNP

| Offset trading group   | Credits required  | Credits secured  |
|--|---|--|
| Upper Riverina Dry<br>Sclerophyll Forests;<br>>=70% and <90% | 87  | 87 <sup>1</sup>  |
| Southern Tableland<br>Wet Sclerophyll<br>Forests; <50%       | 452   | 452  |
| Subalpine<br>Woodlands; <50%                                 | 825   | 1,398  |
| N/A  | 1,721   | 87   |
| N/A  | 1,789   | 1,789 <sup>1</sup>   |
| N/A  | 1,697   | 1,697  |
| N/A  | 417   | 417¹   |
|  | Upper Riverina Dry Sclerophyll Forests; >=70% and <90%  Southern Tableland Wet Sclerophyll Forests; <50%  Subalpine Woodlands; <50%  N/A  N/A | Upper Riverina Dry Sclerophyll Forests; >=70% and <90%  Southern Tableland Wet Sclerophyll Forests; <50%  Subalpine 825 Woodlands; <50%  N/A 1,721  N/A 1,789  N/A 1,697 |

Notes: 1. In the process of being secured

PCT 285 was previously included in the Upper Riverina Dry Sclerophyll Forests; >=70% and <90% offset trading group. Under the revised classification of plant community types (PCTs) in NSW, which occurred in 2023, PCT 285 was amalgamated into PCT 3930. PCT 3930 is in the Montane Bogs and Fens; <50% offset trading group meaning any credits created under the new PCT classification could not be used to offset impacts to PCT 285 as they do not meet the like-for-like requirements as set out under the BC Act. Snowy Hydro sought confirmation from DCCEEW and DPHI that PCT 3930 credits are equivalent and suitable to offset the impacts to PCT 285. Confirmation was provided (27 February 2025) and Snowy Hydro intends to use PCT 3930 credits to offset impacts to PCT 285.

Snowy Hydro has been able to secure the offset liability for all ecosystem credits, the Eastern Pygmypossum, the Yellow-bellied Glider endangered population on the Bago Plateau and the Masked Owl. Snowy Hydro has been able to partially secure the offset liability for the Gang-gang Cockatoo. This represents 77% of the overall offset liability for the project. Snowy Hydro has a residual liability of 1,634 Gang-gang Cockatoo credits.

Snowy Hydro has been reviewing the credit registers on an ongoing basis. No suitable credits are available to meet this residual liability. Snowy Hydro will continue to monitor the credit market and contact credit holders.

In addition to the above, there are a small number of sites which have submitted an expression of interest (EOI) to generate Gang-gang Cockatoo credits. At this stage the number of credits these sites are capable of generating is unknown and these sites would need to develop a Biodiversity Stewardship Agreement (BSA) to realise these credits and make them available for the project. Initial contact with these landholders indicates they are not willing to enter into a BSA for the number of credits required.

#### 2.2 Credits under the variation rules

Following reasonable steps to obtain like-for-like credits, Snowy Hydro may seek to retire credits under the variation rules. The variation rules allow broader trading as follows:

- For ecosystem credits:
  - they represent the same vegetation formation
  - they are in the same or a higher offset trading group
  - they represent a location that is in:
    - o the same IBRA region as the impacted site, or
    - o a subregion that is within 100 km of the outer edge of the impacted site
  - if the impacted habitat contains hollow bearing trees they represent vegetation that contains hollow bearing trees or artificial hollows.
- For species credits:
  - if the impacted species is a plant—they represent a plant
  - if the impacted species is an animal—they represent an animal
  - they represent a species that has the same or a higher category of listing under the BC Act as a threatened species
  - they represent a location that is in:
    - o the same IBRA region as the impacted site, or
    - o a subregion that is within 100 km of the outer edge of the impacted site.

A review of public registers indicates that there are significant credits available to meet the species credit requirements of the project under the variation rules. Snowy Hydro will continue to investigate these options if credits cannot be sourced through other means.

## 2.3 Payment into the Biodiversity Conservation Fund

The offset liability for all impacts occurring outside of KNP can be met by paying \$25.55 million (M) into the BCF (Table 4). Based on credit secured to date, the residual payment into the BCF is expected to be less than half this amount (see Section 3.2.2).

Table 4 Total credits and cost of payment into the BCF for impacts of project outside of KNP

| Credit type | Credits | Payment into BCF (all impacts outside KNP) |
|-------------|---------|--|
| Ecosystem   | 1,364   | \$8,004,085.60                             |
| Species     | 5,625   | \$17,541,496.12                            |
| Total       | 6,988   | \$25,545,581.72                            |

Notes: Costs calculated using BCF charge quote from 15 December 2023 (no indexation)

## 3 Biodiversity offset package

The biodiversity offset requirements outlined in Section 1.3 are proposed to be met via a combination of like-for-like credits, credits under the variation rules and payment of the residual offset liability into the BCF, as discussed below.

### 3.1 Biodiversity stewardship sites

Snowy Hydro investigated potential biodiversity stewardship sites for the project, including land within the locality of the project. Snowy Hydro assisted landowners in developing BSA applications over four sites to generate credits to meet the needs of the project. Two of these ultimately progressed to approved BSAs, with credits created and transferred to Snowy Hydro.

Sites were identified via a spatial analysis which identified potential properties that could support the ecosystem and species credits required to offset impacts of the project outside of KNP. A total of 95 lots across 52 landholders were identified as potentially supporting suitable PCTs and threatened species habitat.

Based on the above, contact was made with landowners to ascertain their interest in entering into a BSA, with preliminary assessments, including PCT mapping and initial surveys for the Yellow-bellied Glider, undertaken at five properties. This preliminary work identified that four properties had the capacity to generate sufficient credits to meet a significant proportion of the offset requirements for the project across two offset trading groups and one species, with the Yellow-bellied Glider confirmed at two properties.

Since this time, more detailed surveys have been undertaken at these properties to confirm the biodiversity values present, understand management issues and calculate credit yields. Detailed information on each property is provided below.

### 3.1.1 Lot 16, DP 755852 (Phillips)

A BSA has now been executed over part of Lot 16, Deposited Plan (DP) 755852, the 'Phillips' property. This property is located approximately 11 km east of Tumbarumba.

The Phillips property has secured the entire offset liability for the Subalpine Woodlands <50% cleared offset trading group, as well as meeting a significant portion (84%) of the offset liability for the Yellow-bellied Glider endangered population on the Bago Plateau and a portion (2%) of the offset liability for the Gang-gang Cockatoo (Table 5).

| Table 5 | Credits | generated | by | the | Philli | ps | propert | ťγ |
|---------|---------|-----------|----|-----|--------|----|---------|----|
|         |         |           |    |     |        |    |         |    |

| PCT  | Trading group  | Credits<br>generated | Credits<br>required | Percentage<br>of credit<br>requirement<br>met |
|------|--|----------------------|---------------------|---|
| 680  | Southern Tableland Grassy Woodlands; >90%  | 2                    | 0                   | -   |
| 1100 | Tableland Clay Grassy Woodlands; >=70% and <90%                                      | 22                   | 0                   | -   |
| 1196 | Subalpine Woodlands; <50%  | 897                  | 825                 | >100%   |
| 952  | Subalpine Woodlands; >=50% and <70%  | 501                  | 0                   | -   |
|      | Gang-gang Cockatoo   | 30                   | 1,721               | 2%  |
|      | Yellow-bellied Glider (Petaurus australis) endangered population on the Bago Plateau | 1,422                | 1,697               | 84%   |

These credits have been secured by Snowy Hydro, the total fund deposit (TFD) has been paid out and the site is now in active management.

### 3.1.2 Lot 2, DP 556593 (Heinecke)

A BSA was proposed to be developed within Lot 2, DP 556593, the 'Heinecke' property. This property is located approximately 10 km north-north-east of Tumbarumba.

Surveys undertaken included detailed PCT mapping, plot surveys to ascertain vegetation condition and credit yield, and targeted surveys for the Yellow-bellied Glider using acoustic recording devices. These surveys recorded two PCTs within the site (300 and 952) as well as the Yellow-bellied Glider.

However, a combination of issues has resulted in Snowy Hydro deciding not to progress with a BSA over this site.

#### 3.1.3 Lots 1 and 2, DP 812949 (Twin Rivers)

A BSA was proposed to be developed over Lots 1 and 2, DP 812949, the 'Twin Rivers' property. This property is located approximately 11 km east of Tumbarumba, and immediately adjacent to the Phillips property on the southern side.

Surveys undertaken included detailed PCT mapping, plot surveys to ascertain vegetation condition and credit yield, and targeted surveys for the Yellow-bellied Glider using drone imaging. These surveys recorded one PCT within the site (952) as well as the Yellow-bellied Glider and Gang-gang cockatoo.

However, a BSA over this site did not progress due to the landholder opting to withdraw from the process.

### 3.1.4 Lots 23, 24, 40, 46, 47, 48 and 202, DP 755874 (Christmas Hill)

A BSA has now been executed over Lots 23, 24, 40, 46, 47, 48 and 202, DP 755874, the 'Christmas Hill' property. This property is located approximately 9 km north-north-east of Tumbarumba and immediately south of the Heinecke property.

The Christmas Hill property is capable of securing the residual offset liability for the Yellow-bellied Glider endangered population on the Bago Plateau (Table 6) and these credits have been secured by Snowy Hydro. Whilst credits are available to meet the offset liability for the Southern Tableland Wet Sclerophyll Forests <50% cleared offset trading group and the Subalpine Woodlands <50% cleared offset trading group these credits are not required as this liability has been met by other properties.

| Table 6 Credits generated by the Christmas Hill proper | Table 6 | Credits generated b | y the | Christmas | Hill | property |
|--|---------|---------------------|-------|-----------|------|----------|
|--|---------|---------------------|-------|-----------|------|----------|

| PCT | Trading group  | Credits<br>generated | Credits<br>required | Percentage<br>of credit<br>requirement<br>met |
|-----|--|----------------------|---------------------|---|
| 296 | Southern Tableland Dry Sclerophyll Forests; <50%                                     | 454                  | 0                   | -   |
| 307 | Southern Tableland Dry Sclerophyll Forests; <50%                                     | 256                  | 0                   | -   |
| 300 | Southern Tableland Wet Sclerophyll Forests; <50%                                     | 336                  | 452                 | 74%   |
| 952 | Subalpine Woodlands; >=50% and <70%  | 556                  | 825                 | 67%   |
|     | Yellow-bellied Glider (Petaurus australis) endangered population on the Bago Plateau | 550                  | 1,697               | 32%   |

## 3.2 Residual offset liability

A summary of the credits generated by the two BSA sites and the residual offset liability is provided in Table 7.

Table 7 Credits secured from the two BSA sites and residual offset liability analysis for project for impacts outside KNP

| PCT/species  | Offset trading group  | Total<br>credits | Phillips<br>BSA | Christmas<br>Hill BSA | Credits<br>secured<br>from the<br>market | Residual<br>offset<br>liability |
|--|---|------------------|-----------------|-----------------------|--|---------------------------------|
| Ecosystem credits  |   |                  |                 |                       |  |                                 |
| PCT 285 - Broad-leaved Sally grass – sedge woodland on valley flats and swamps in the NSW South Western Slopes Bioregion and adjoining South Eastern Highlands Bioregion                                     | Upper Riverina<br>Dry Sclerophyll<br>Forests; >=70%<br>and <90% | 87               | -               | -                     | 87 <sup>1</sup>                          | 0                               |
| PCT 300 - Ribbon Gum - Narrow-leaved (Robertsons) Peppermint montane fern - grass tall open forest on deep clay loam soils in the upper NSW South Western Slopes Bioregion and western Kosciuszko escarpment | Southern<br>Tableland Wet<br>Sclerophyll<br>Forests; <50%       | 452              | -               | -                     | 452                                      | 0                               |
| PCT 1196 - Snow Gum - Mountain Gum<br>shrubby open forest of montane areas,<br>South Eastern Highlands Bioregion and<br>Australian Alps Bioregion  | Subalpine<br>Woodlands;<br><50%                                 | 825              | 1,398           | -                     |  | 0                               |
| Species credits  |   |                  |                 |                       |  |                                 |
| Gang-gang Cockatoo (Callocephalon fimbriatum)  | N/A   | 1,721            | 30              | -                     | 57                                       | 1,634                           |
| Eastern Pygmy-possum (Cercartetus nanus)   | N/A   | 1,789            | -               | -                     | 1,789 <sup>1</sup>                       | 0                               |
| Yellow-bellied Glider ( <i>Petaurus australis</i> ) endangered population on the Bago Plateau  | N/A   | 1,697            | 1,422           | 275                   |  | 0                               |
| Masked Owl (Tyto novaehollandiae)  | N/A   | 417              | -               | -                     | 417 <sup>1</sup>                         | 0                               |

Notes: 1. In the process of being secured

The two proposed biodiversity stewardship sites have met the entire offset liability for the Subalpine Woodlands <50% cleared offset trading group and the Yellow-bellied endangered population on the Bago Plateau. They have also met a portion of the offset liability for the Gang-gang Cockatoo. Overall, the two sites have met 60% of the ecosystem credit liability and 31% of the species credit liability.

#### 3.2.1 Purchase of credits from the market

Snowy Hydro has secured or is in the process of securing credits from the market under the like-for-like rules, with an additional 539 ecosystem credits and 2,263 species credits secured or in-train (see Table 7). These credits will secure Snowy Hydro's residual offset liability except for the Gang-gang Cockatoo.

Once all reasonable steps have been taken to secure like-for-like credits Snowy Hydro may explore options to secure credits under the variation rules.

### 3.2.2 Payment into the Biodiversity Conservation Fund for residual offset liability

If credits cannot be secured from the two biodiversity stewardship sites or through purchase of credits from the market, Snowy Hydro will meet any residual offset liability through payment into the BCF. Table 8 provides a summary of the cost of meeting the current residual offset liability via payment into the BCF.

Table 8 Cost of payment into the BCF for the residual offset liability for impacts outside KNP

| PCT/ species                                  | Total<br>Credits | Cost of payment into the BCF |
|---|------------------|------------------------------|
| Gang-gang Cockatoo (Callocephalon fimbriatum) | 1,634            | \$6,040,179.04               |

Notes: Costs calculated using BCF charge quote from 15 December 2023 (no indexation)

# 4 Timing and responsibilities

The timing and responsibility for the actions required by this BOP are outlined in Table 9.

Table 9 Timing and responsibility of tasks required by this BOP

| Component  | Activity   | Status                                  | Expected date   | Responsibility              |
|--|--|---|---|-----------------------------|
| ВОР  | Preparation of BOP   | Complete                                | Q2 2023   | EMM                         |
|  | Consultation with BCD  | Complete                                | Q4 2022   | EMM                         |
|  | Approval of BOP  | Complete                                | Q2 2023   | DPE                         |
| Bank guarantee   | Payment of bank guarantee  | Complete                                | Prior to<br>carrying out<br>any<br>development<br>outside KNP | Snowy Hydro                 |
| Phillips, Heinecke,<br>Twin Rivers and<br>Christmas Hill<br>biodiversity<br>stewardship<br>sites | Preliminary investigation  | Complete                                | Q2 2022   | EMM                         |
|  | Detailed investigation   | Complete                                | Q3 2022   | EMM                         |
|  | Targeted surveys   | Complete                                | Q2 2023   | EMM                         |
|  | Submit application for BSA   | Complete                                | Q1 2024   | EMM                         |
|  | Approval of BSAs   | Complete (Phillips and Christmas Hill)  | Q4 2024   | BCD                         |
|  | Signing of BSAs  | Complete (Phillips and Christmas Hill)  | Q1 2025   | Landholder /<br>Snowy Hydro |
|  | Transfer of credits  | Complete (Phillips)<br>(Christmas Hill) |   |                             |
|  | Retirement of credits  | To be completed                         | Q2 2025   | Snowy Hydro                 |
| Sourcing of residual offset liability from the credit market                                     | Search for credits available on<br>the market to meet residual<br>offset liability (like-for-like or<br>variation) | Ongoing                                 | Q4 2023 – Q2<br>2025  | N+A                         |
|  | Negotiation with landholders around credit availability and pricing  | Ongoing                                 | Q1 – Q2 2025  | Snowy Hydro                 |
|  | Purchase, transfer and retirement of credits (if available)  | Partially<br>completed –<br>ongoing     | 1 September<br>2025   | Snowy Hydro                 |
| Payment into the<br>BCF for residual<br>credit<br>liability                                      | Application for payment into the BCF for residual offset liability   | To be completed                         | Q2 2025   | N+A                         |
|  | Payment into BCF   | To be completed                         | Q2 2025   | Snowy Hydro                 |
| BOP implemented  | All measures outlined in the<br>BOP implemented and all credit<br>liabilities met                                  | To be completed                         | 1 September<br>2025   | Snowy Hydro                 |

## References

Jacobs. (2022). Biodiversity Development Assessment Report: Snowy 2.0 Transmission Connection Project. Prepared for TransGrid. Sydney: Jacobs Group (Australia) Pty Ltd.

OEH. (2017). Ancillary rules: Biodiversity conservation actions. Sydney: Office of Environment and Heritage.

Transgrid. (2022). Amendment Report Snowy 2.0 Transmission Connection Project. Sydney: Transgrid.