



VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



Agenda

Time	Agenda item	Time allocated	Presenter
9:45 – 10:00	Morning tea	10 mins	
10:00 -10:05	Acknowledgement of Country	5 mins	Brendan Blakeley
10:05 – 10:20	Welcome, introductions and housekeeping and review of previous minutes	15 mins	Brendan Blakeley
10:20 – 10:35	Route Selection methodology: • Process and considerations • Hierarchy of constraints	15 mins	Jarryd Barton (WSP)
10:35 – 10:50	Transmission 101 – Q & A	15 mins	Joel Annett, Colin Mayer
10:50– 11:00	The Environmental Assessment process	10 mins	Geoff Hudson, Transgrid
11:00 -11:15	How Transgrid manages bushfire risk and its assets	15 mins	Adam Hoare, Transgrid
11:15- 11:30	Community Benefit – Framework and engagement	15 mins	Joel Annett
11:30- 11:45	VNI West Consultation and engagement program	15 mins	Nathan Menser and Joel Annett
11:45 – 12:00	Wrap up and close	15 Mins	Brendan Blakeley

Review of Meeting 1 minutes and action items

Action items

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Questions on notice	Can Preferred Corridor Report submissions be made available to the group? Cultural heritage studies, particularly the predictive modelling, will these be made available to the CCG?	Secretary/Joel Annett/Geoff Hudson	Completed

Route selection methodology

Jarryd Barton
Principal Environmental Planner, WSP



Route selection process

2023

2024



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Typically between one and 10 kilometres wide



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Hierarchy of constraints

Technical

- Land use
- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
- Visual and landscape

High constraint EXCLUDE

- Areas considered unfeasible for the siting of a transmission line
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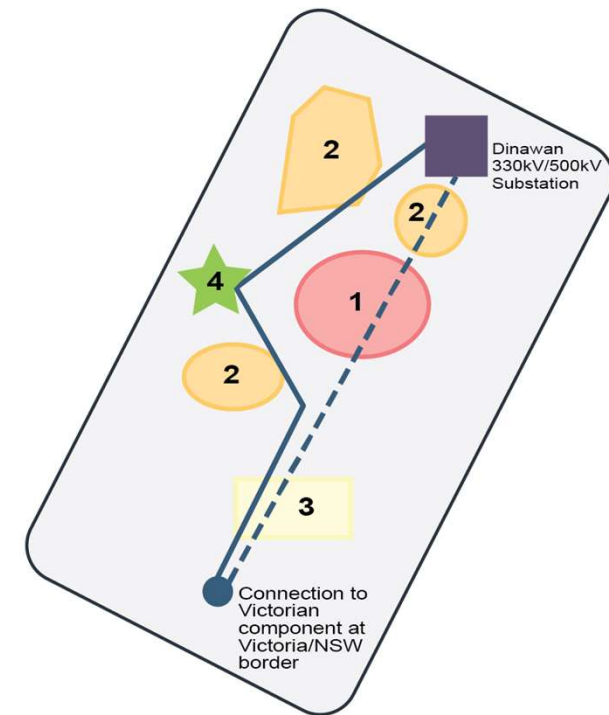
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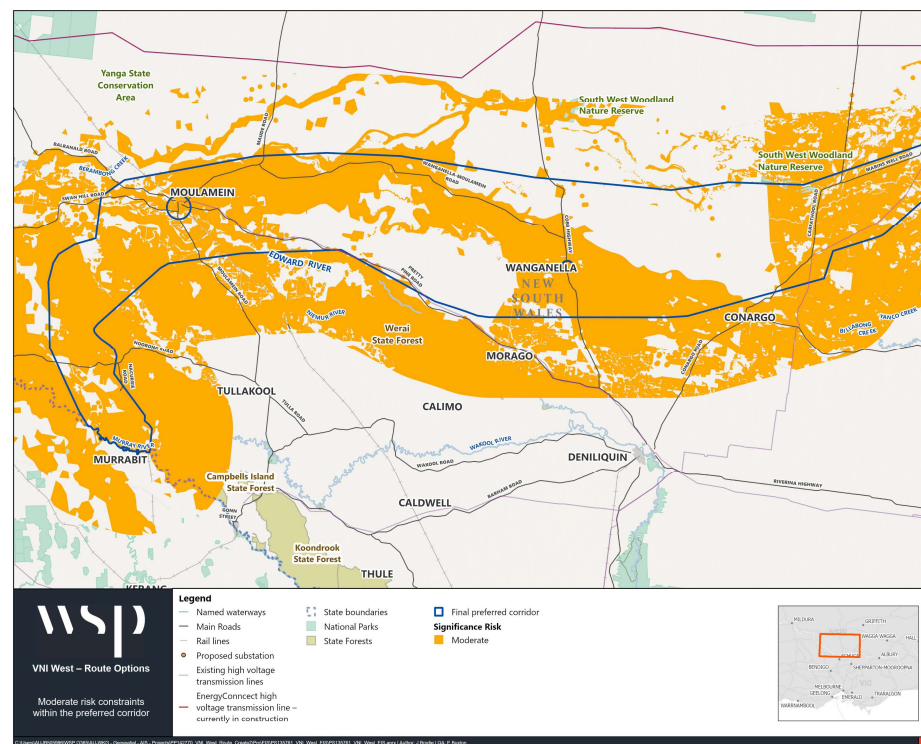
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OPPORTUNITIES

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- Feasible corridor, avoiding constraints and utilising opportunities
- - - Unfeasible corridor



Transmission 101 – Q&A

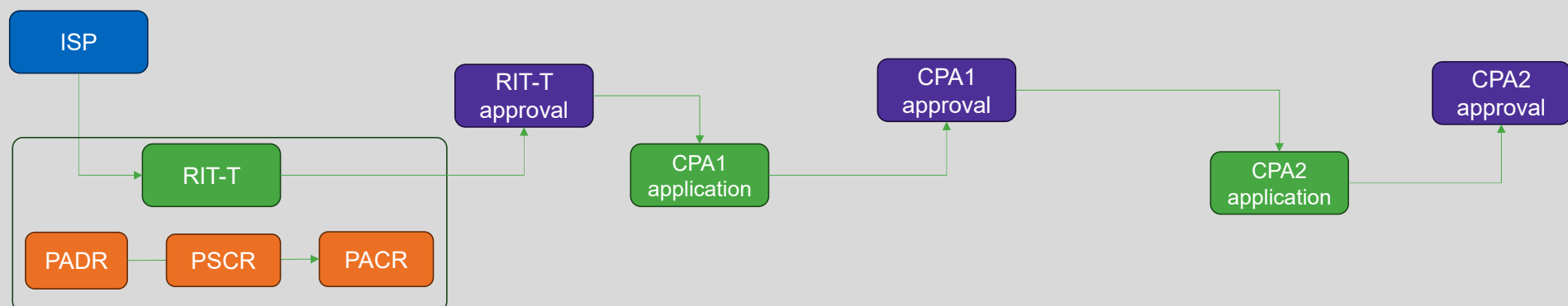
Joel Annett and Colin Mayer

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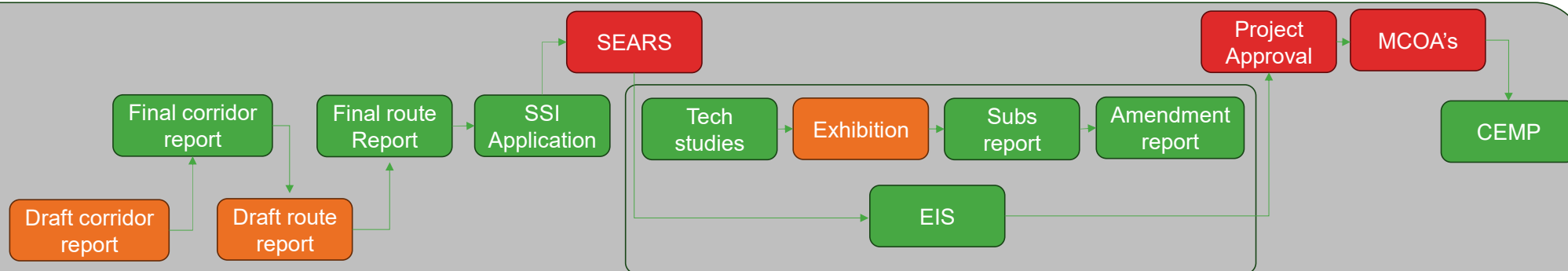


Engagement and approvals process

Regulatory approval



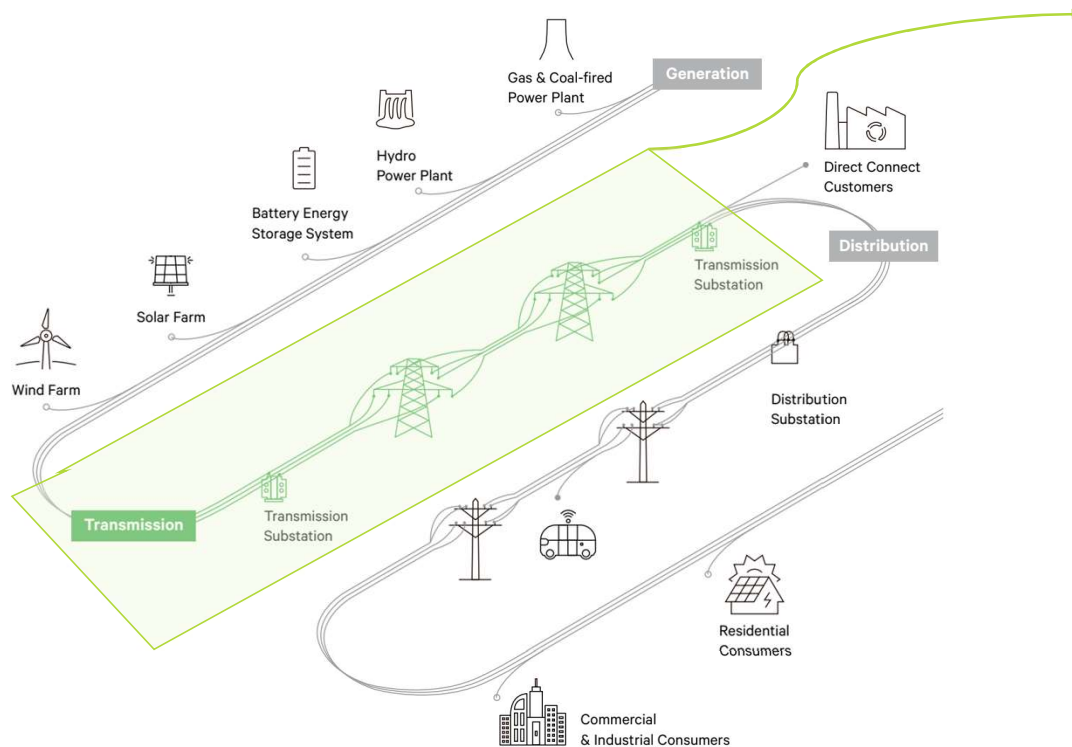
Planning approval



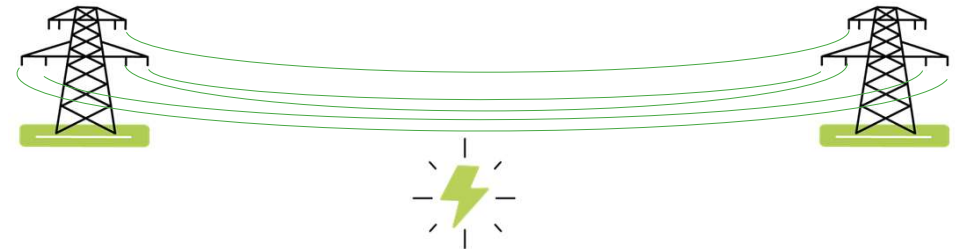
AEMO AER DPIE Transgrid Consultation

Where transmission fits in the system

Electricity Supply Chain



Safe, Reliable & Secure Transmission



Safe – Managing the transmission system in such a way that reduces safety risks to the community, environment and our staff. I.e. keep electricity contained in its conductor.



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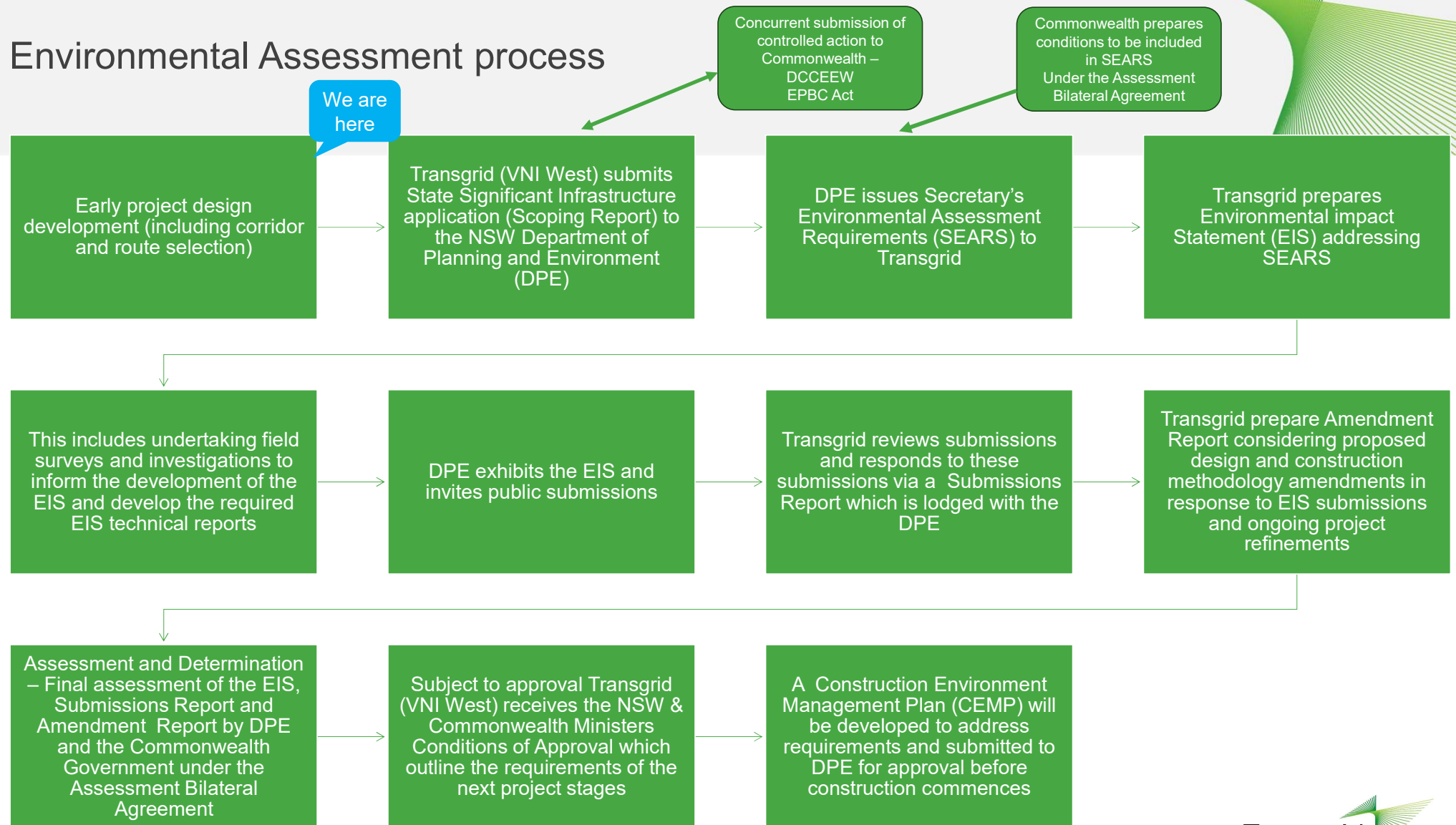


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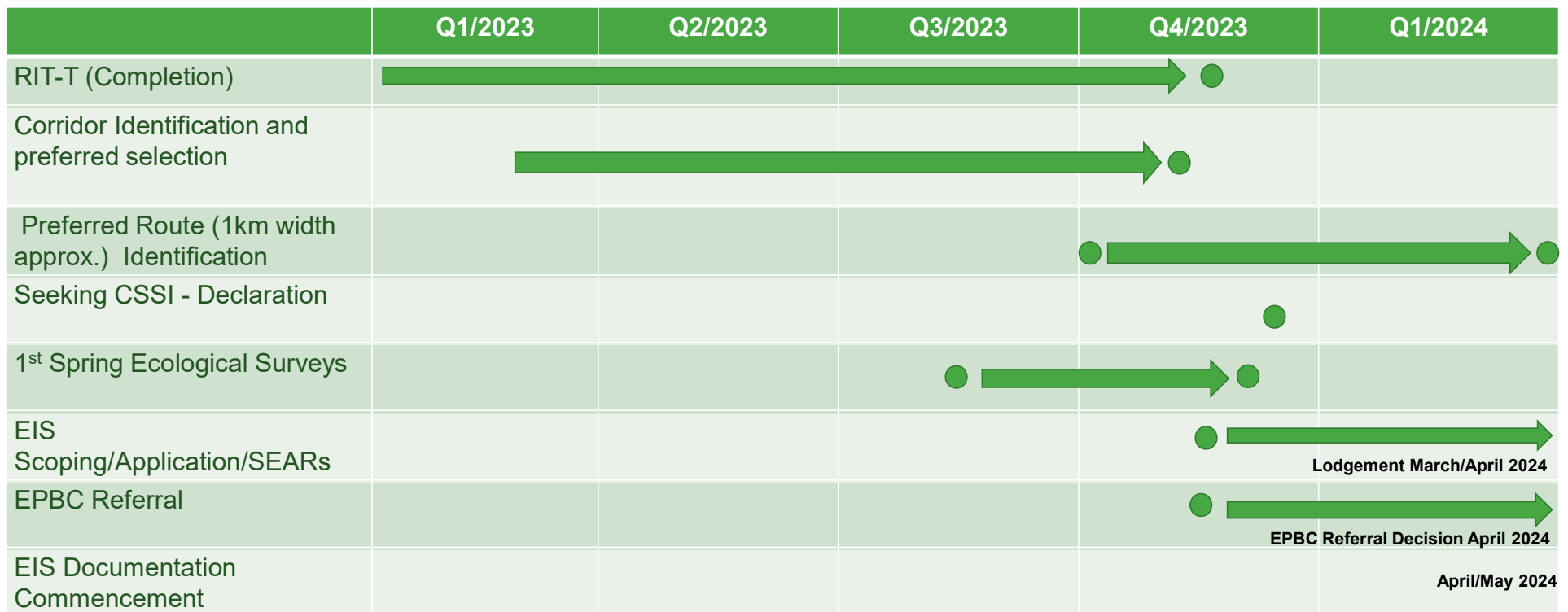
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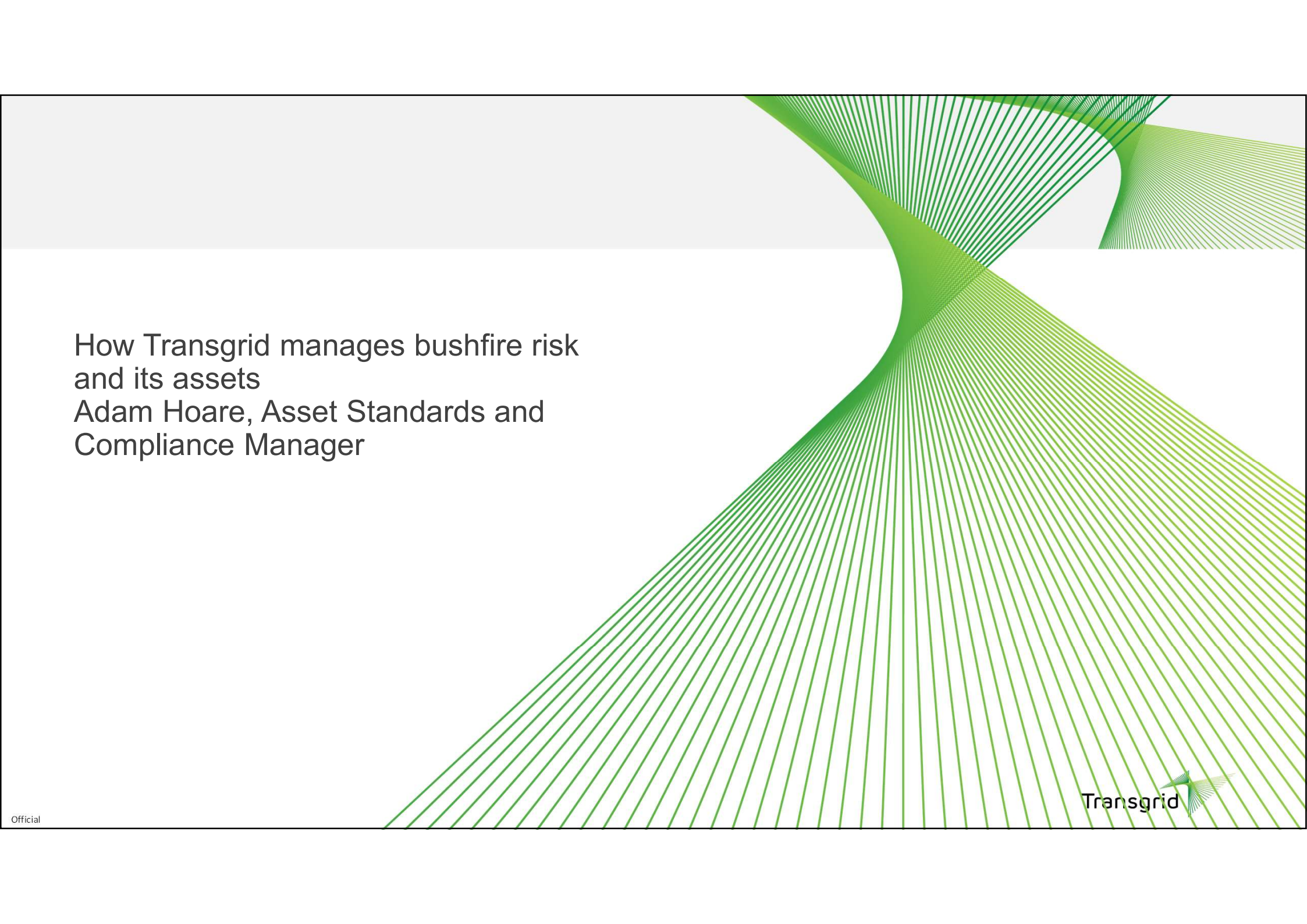
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Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets Adam Hoare, Asset Standards and Compliance Manager

Compliance & Risk Approach

Compliance Instruments

Electricity Supply (Safety and Network Management) Regulation 2014

A network operator must have a safety management system in place that is in accordance with AS 5577; and addresses the **management of bushfire risk** relating to assets capable of initiating a bushfire.

AS 5577 Electricity Network Safety Management

The Standard exists for the support of:

- the **safety of the public**, and persons near or working on the network
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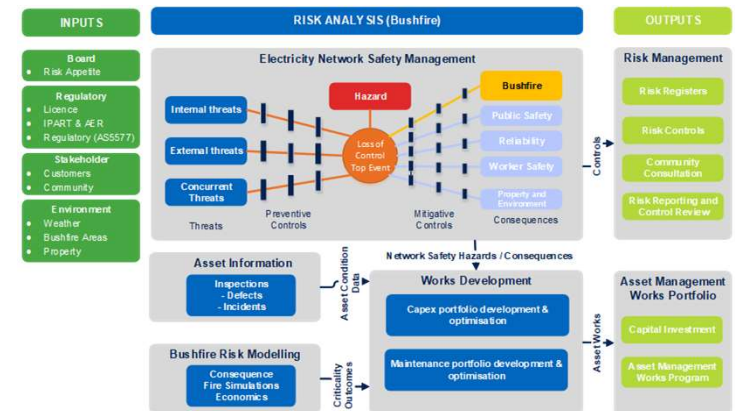
Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
- Incorporates appropriate **oversight and reporting** committees for performance tracking and continuous improvement.
- System effectiveness is frequently assured through internal and external **auditing**.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

Our inspection programs identify high priority asset defects based on failure consequences prior to season commencement to help mitigate bushfire risks, this includes:

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- **Ground easement inspection** and **vegetation management** - ensures clearances to transmission lines are maintained prior to the next maintenance cycle
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2. Transmission Lines

- Annual **aerial helicopter inspections** of network completed prior to bushfire season.
- Annual **ground-based inspection** of the transmission line structures with the highest potential bushfire risk.
- Routine maintenance inspection tasks to **detect defects and assess condition** that helps identify longer-term condition-related deterioration of assets.



Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

- Scope and prioritisation is based on **asset condition and relative bushfire and public safety risk** at each location on the network
- Projects involve:
 - Targeted replacement/refurbishment of corroded fittings, insulators, steelwork, foundation, and conductor.
 - Targeted wood pole replacement with concrete/steel pole due to decay or termite damage.



Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

Phoenix bushfire risk models are current and operational.

Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

Insight: Aims to provide a high degree of assurance our assets do not present bushfire risks prior to season commencement.

Detection and monitoring

Network Operations and field crews have adequate situational awareness of emerging fire events.

Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

Emergency Response & Coordination

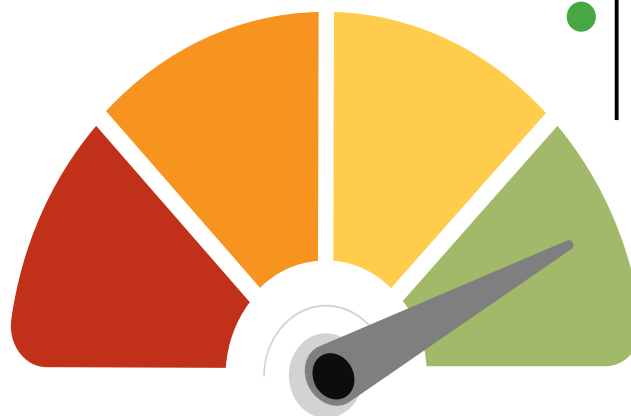
Emergency and Crisis Management teams are continually trained and exercised a major escalating bushfire scenario in May-23. Relevant stakeholders are actively involved in emergency service and industry coordination forums.

Insight: Business is trained and ready to respond to a developing emergency bushfire situation.

Internal communications

Internal teams aware and ready to widely communicate commencement of bushfire danger periods.

Insight: Provides broad situational awareness to all staff.



Overall Assessment

Working with RFS

Transgrid maintains engagement with external stakeholders and specifically RFS via:

Bushfire Management Committees (BFMC)

Our staff attend BFMC meetings typically as observers and subject matter experts regarding Transmission electricity infrastructure

Disconnection / Safe Access

Our operators coordinate RFS electricity disconnection requests during emergencies, affording safe access for firefighting activities.

Requests are considered against wider network security impacts of taking transmission lines out of service.

RFS ICON

We utilise RFS ICON to provide real-time situational awareness of threats, and access to established local emergency centres.

Agency Coordination

Bi-directional liaison with EUSFAC / emergency services / DNSPs regarding network threats and emergency situational awareness.

EUSFAC are the primary contact point for Transgrid during significant events, who then functionally coordinate with fire agencies.

Liaison Officers (LOs)

During fire emergencies our staff are often deployed to act as LOs during bushfires. They coordinate information regarding asset criticality, impacted infrastructure, and assist Transgrid field staff arrange fire ground access.

Regular Engagements

- Annual summer preparedness meetings with EUSFAC & RFS
- Quarterly EUSFAC sub-committee meetings



**Energy and Utility
Services Functional Area
(EUSFA)**



Community Benefits

Joel Annett, Community and
Stakeholder Manager



Community Investment Program

Ensure impacted communities receive substantial benefits that adequately address social legacy expectations.

As part of VNI West Transgrid will make an investment in the local community.

CCG will play a role in guiding Transgrid on how to engage with the community to identify the opportunities.

Our Process

1. Engage and consult with the relevant internal and external stakeholders
2. Identify the need and the expected outcomes
3. Evaluate the different opportunities and streams
4. Engage with potential implementing partners

Healthcare
Telecommunications
Education
Research
Resilience

NEXT STEPS

Community engagement
Joel Annett, Community and
Stakeholder Manager
Nathan Menser, Community and
Stakeholder Lead



Engaging on the Draft Route Report

Publish Draft Route Report
29 Jan 2024

Engage and seek feedback

Publish Preferred Route
Report - March 2024

Monday	Tuesday	Wednesday	Thursday	Friday
29 Jan Draft Route Report	30 Jan "Opportunity week"	31 Jan CCG # 3	1 Feb	2 Feb
5 Feb	6 Feb Drop ins Jerilderie Conargo	7 Feb Drop ins Wanganella Moulamein – Town Hall	8 Feb Drop ins Deniliquin – Town Hall Barham	9 Feb Drop in Moulamein
12 Feb	13 Feb Drop in Moulamein	14 Feb Drop in Deniliquin	15 Feb Drop ins Wanganella Conargo	16 Feb
19 Feb "Stakeholder Week"	20 Feb	21 Feb	22 Feb	23 Feb
26 Feb	27 Feb Drop in Barham	28 Feb Drop in Moulamein	29 Feb	1 Mar – 3 Mar Events Deniliquin Show Jerilderie Fun Fair

This table is provided as draft for discussion purposes and remains subject to change. Transgrid is in discussions with local venues regarding availability.



Meeting close

Thank you for your time

1800 222 537

vniw@transgrid.com.au

www.transgrid.com.au/vniw



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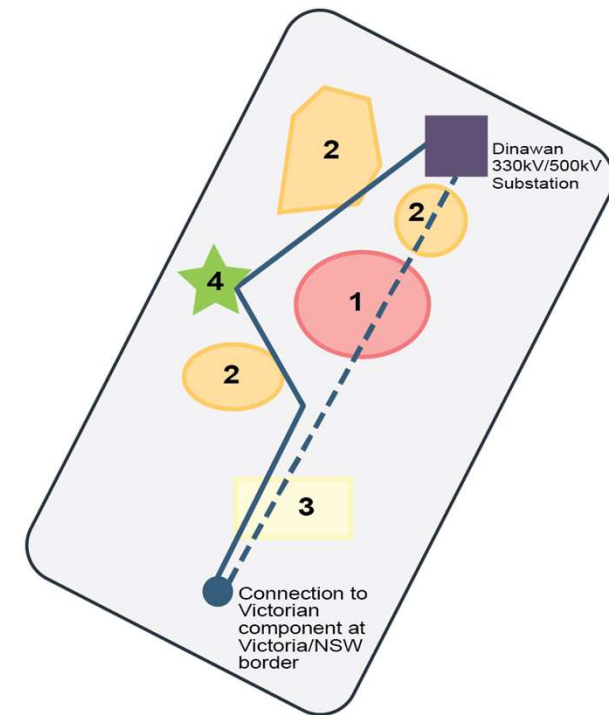
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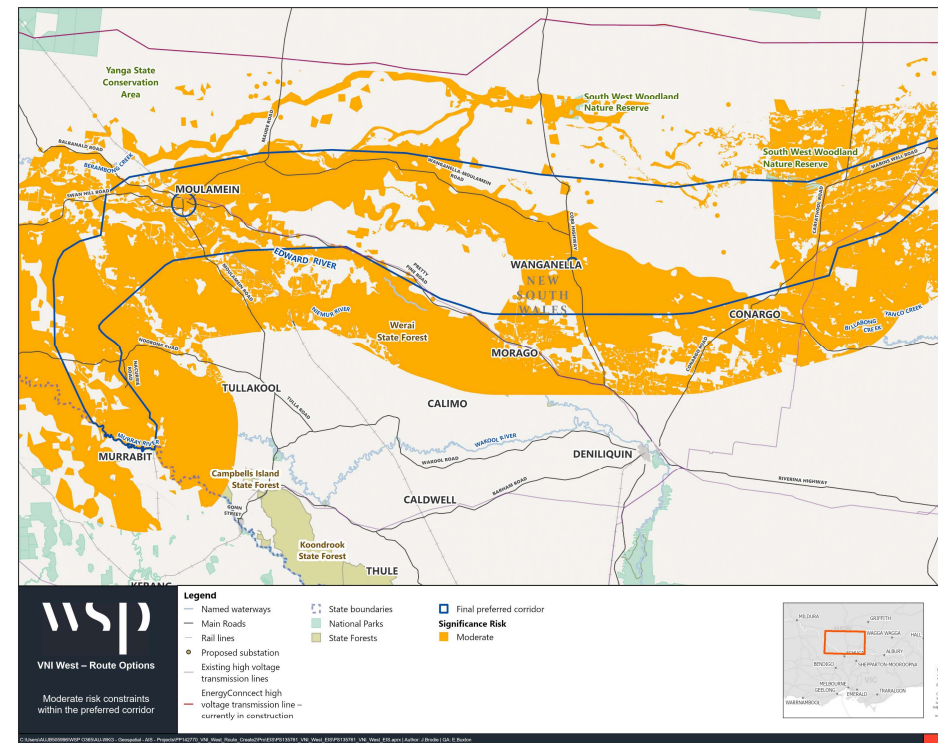
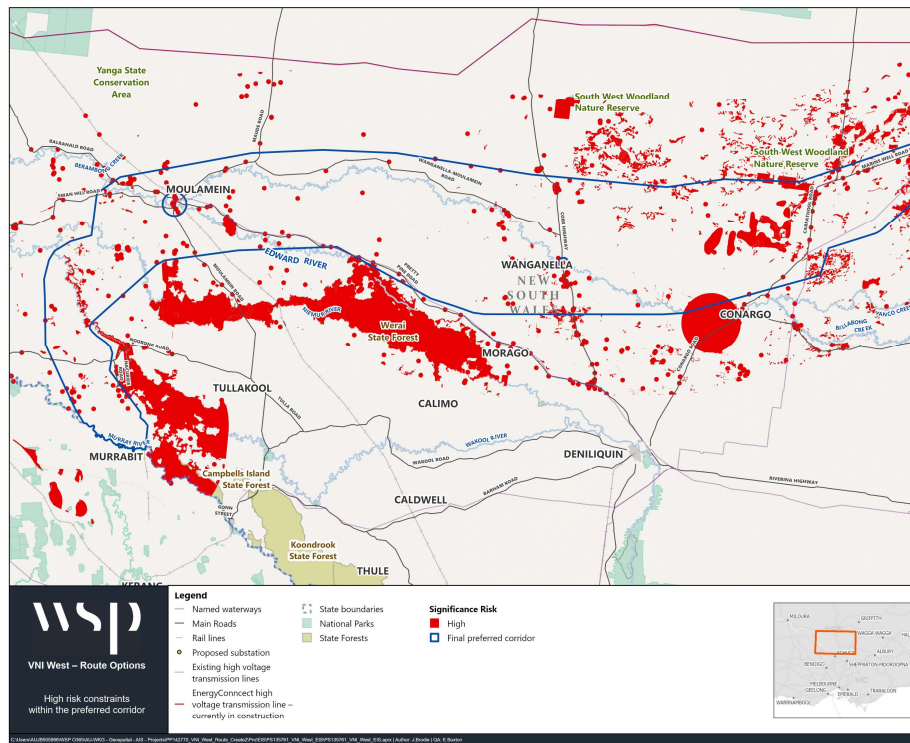
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Opportunities and constraints mapping



Transmission 101 – Q&A

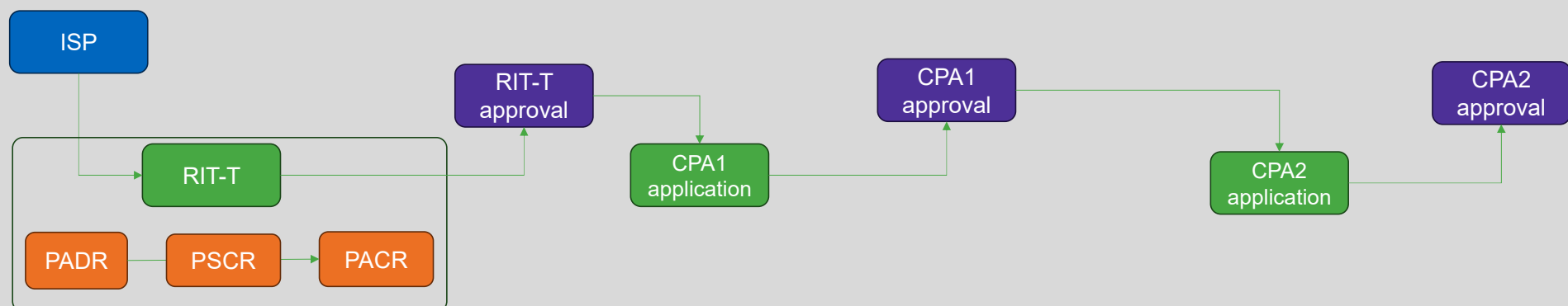
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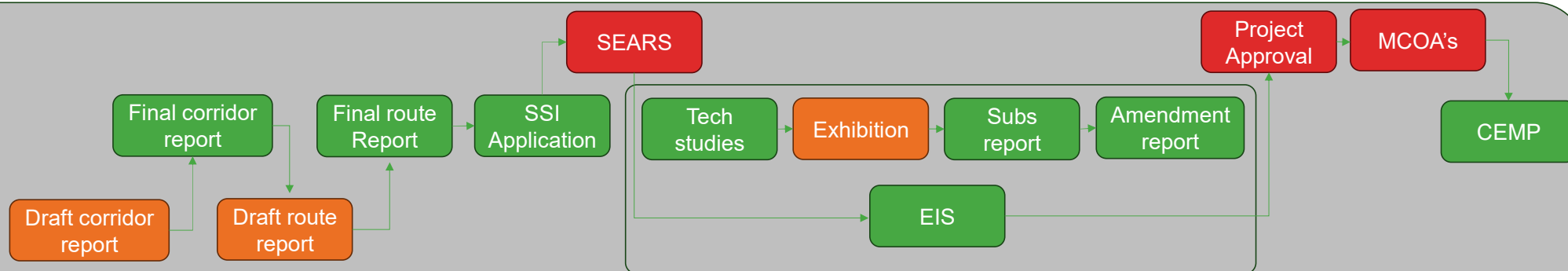


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Planning approval



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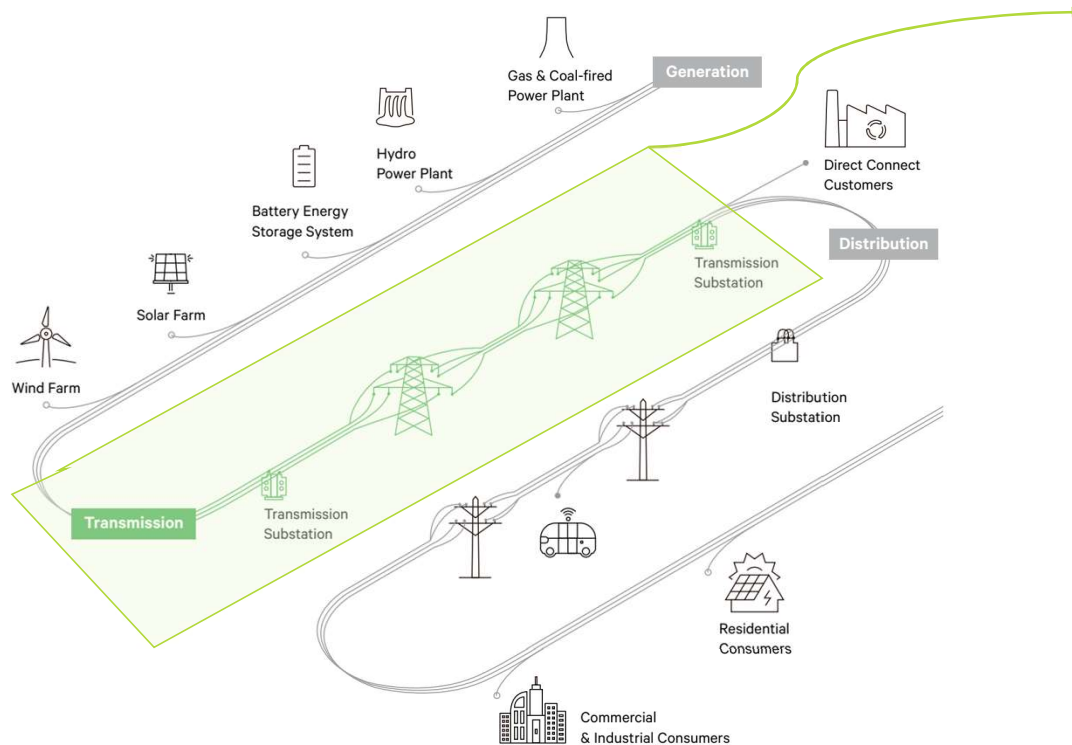
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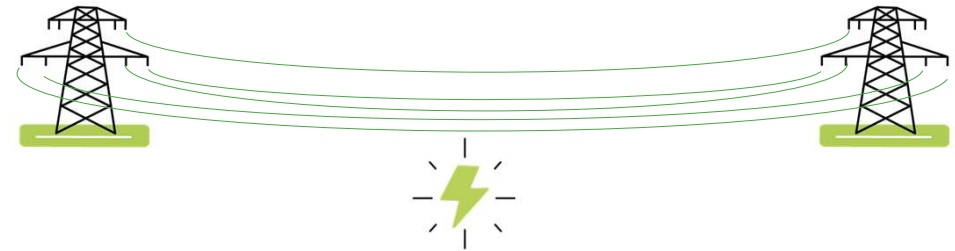
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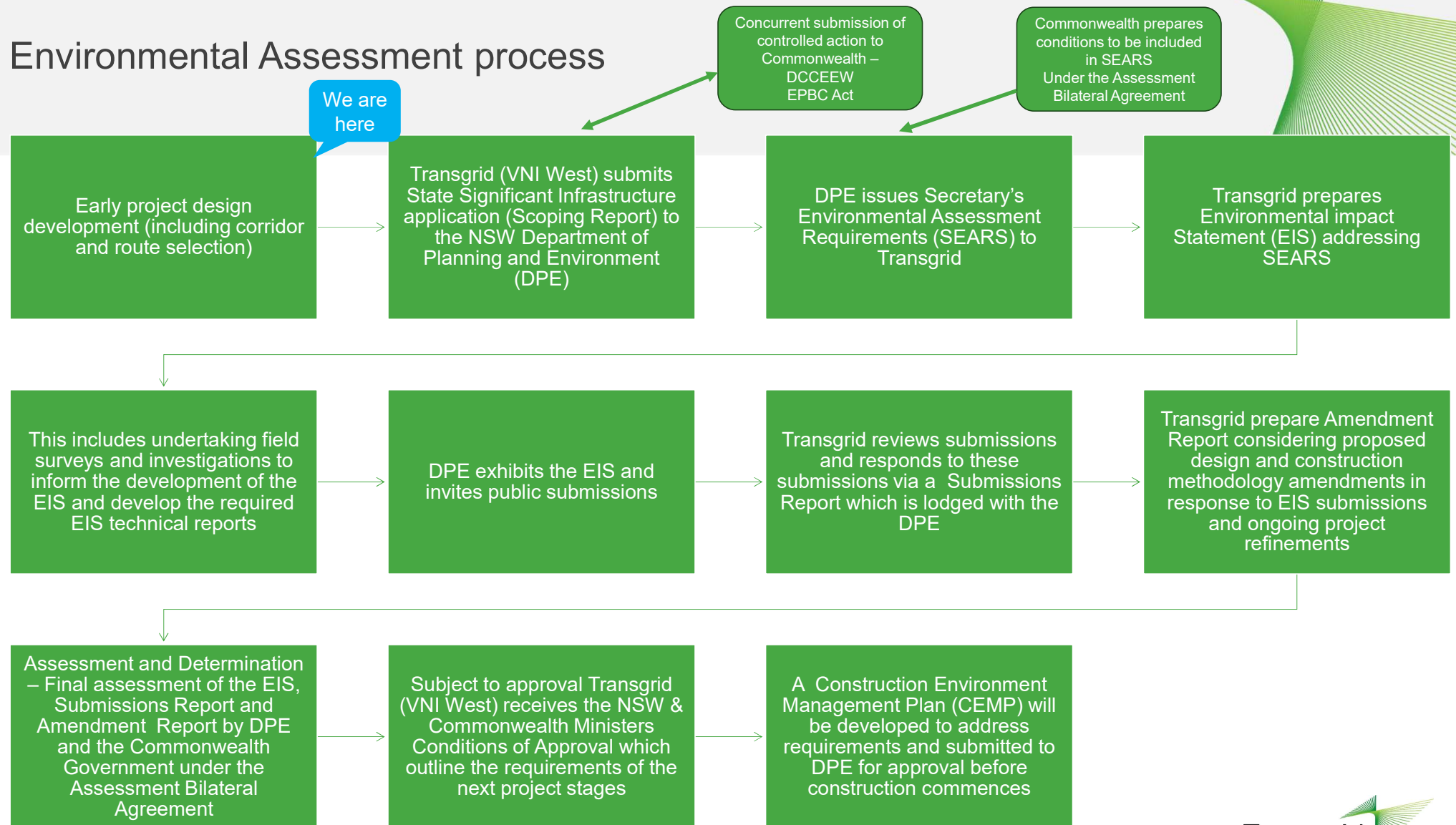


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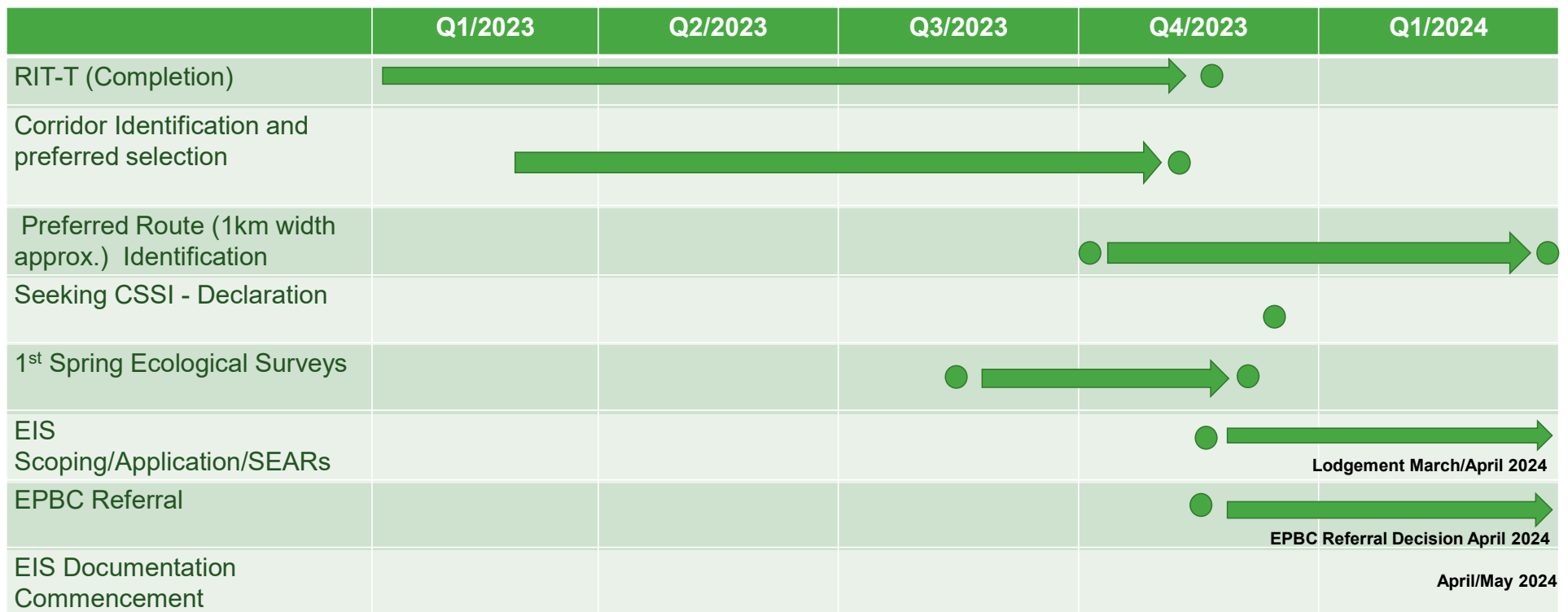
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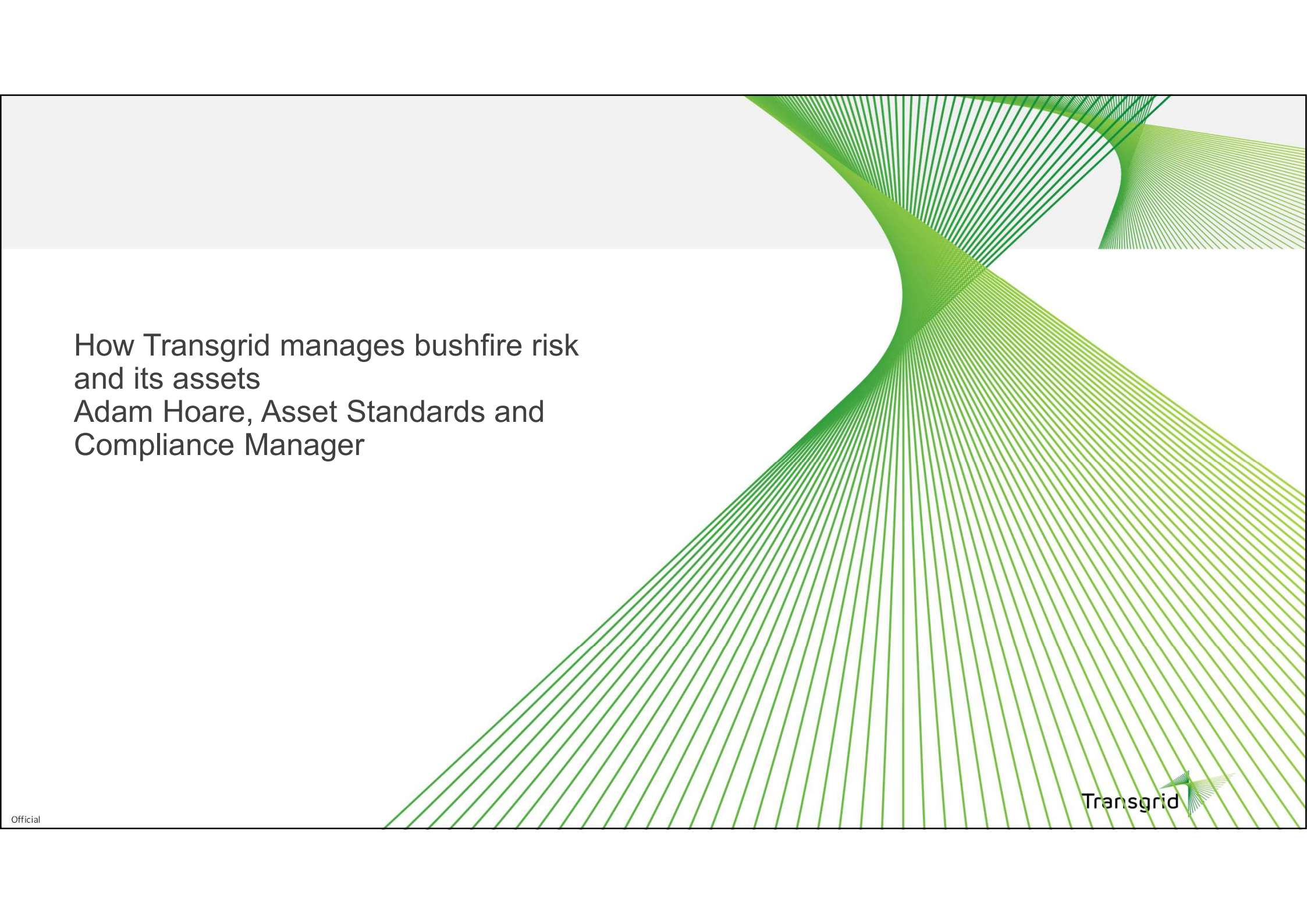
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How Transgrid manages bushfire risk and its assets

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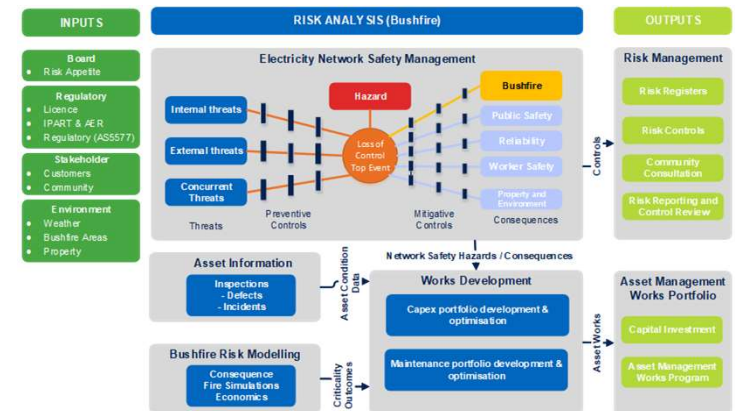
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Risk Approach



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Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

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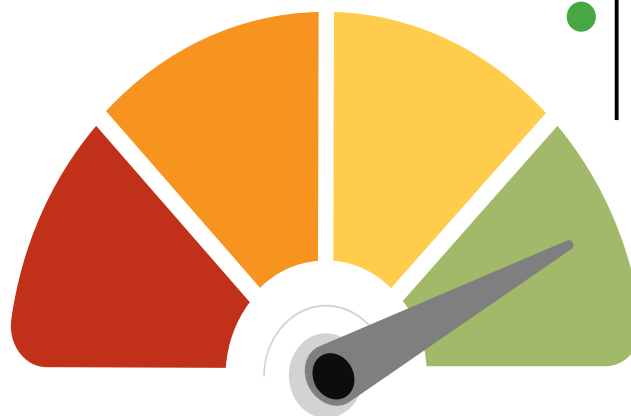
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Requests are considered against wider network security impacts of taking transmission lines out of service.

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We utilise RFS ICON to provide real-time situational awareness of threats, and access to established local emergency centres.

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Bi-directional liaison with EUSFAC / emergency services / DNSPs regarding network threats and emergency situational awareness.

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

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Route selection process

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Hierarchy of constraints

Technical

- Land use
- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
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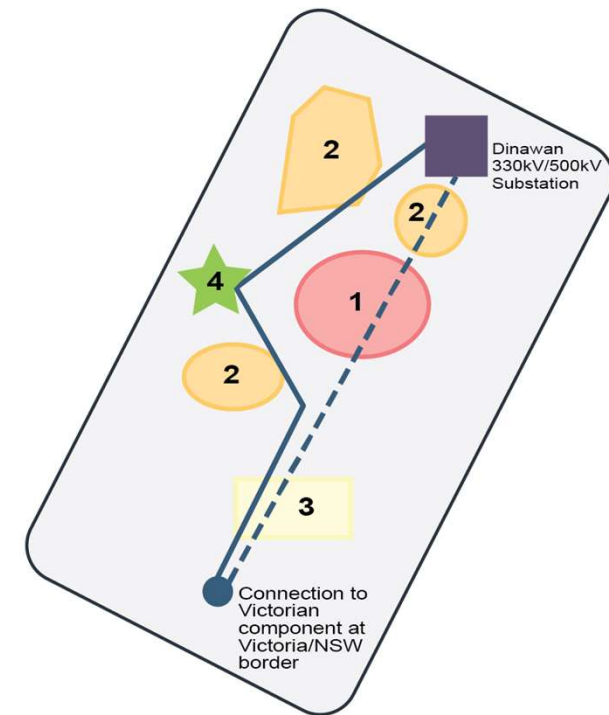
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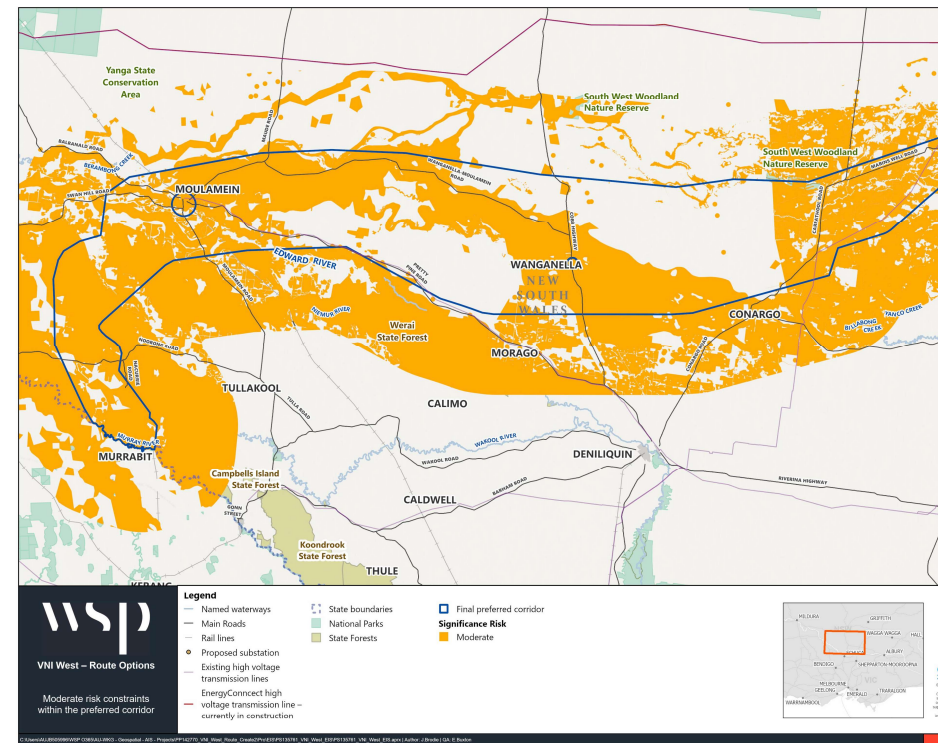
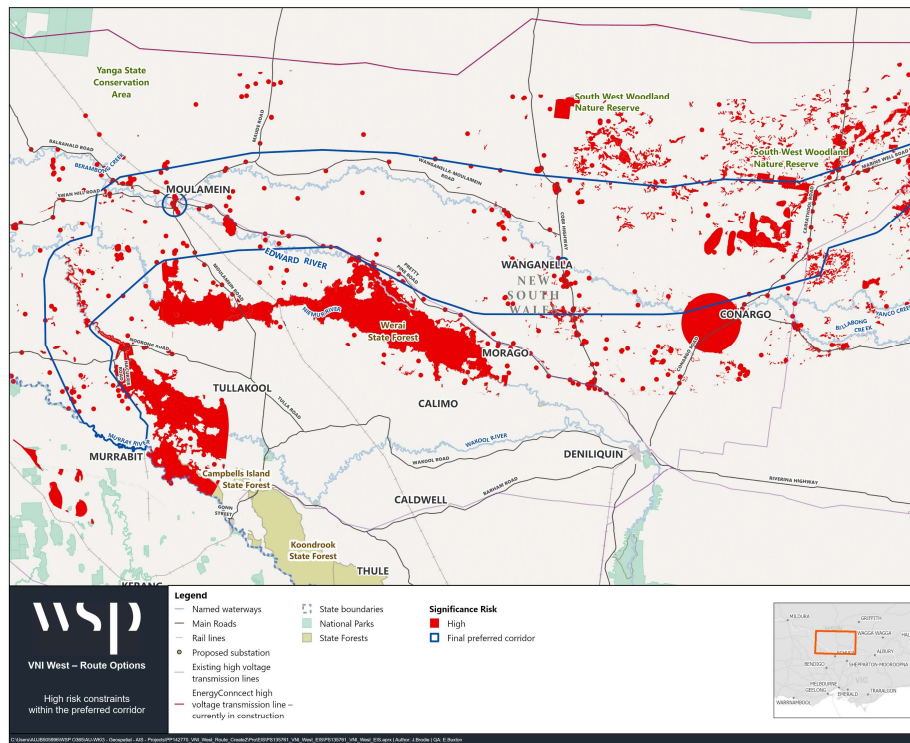
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Opportunities and constraints mapping

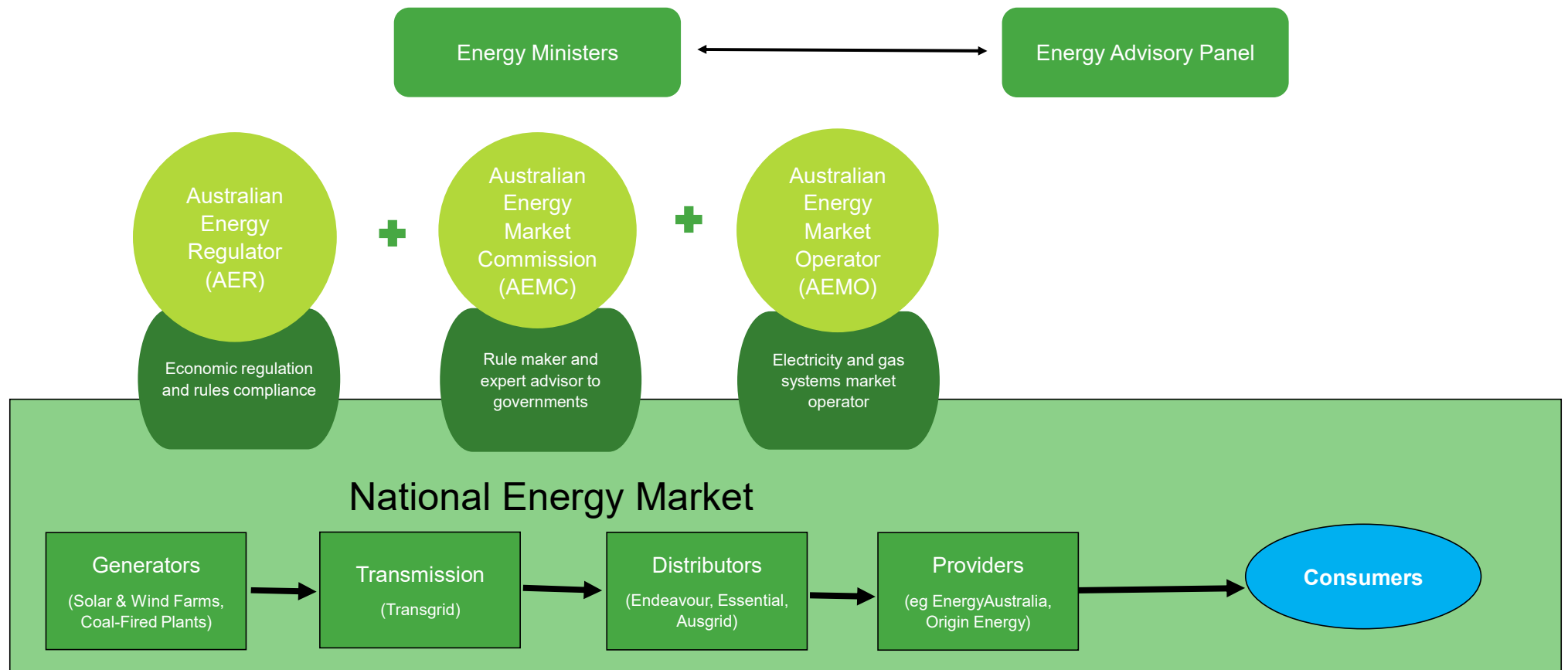


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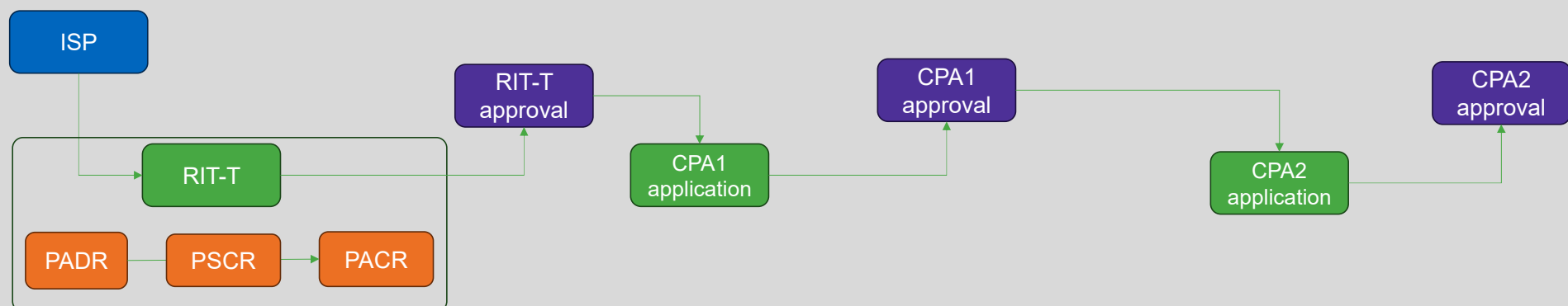


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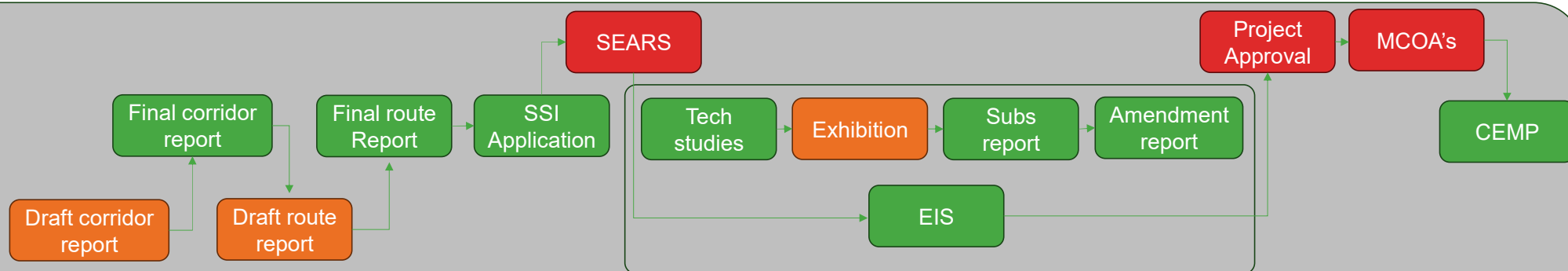


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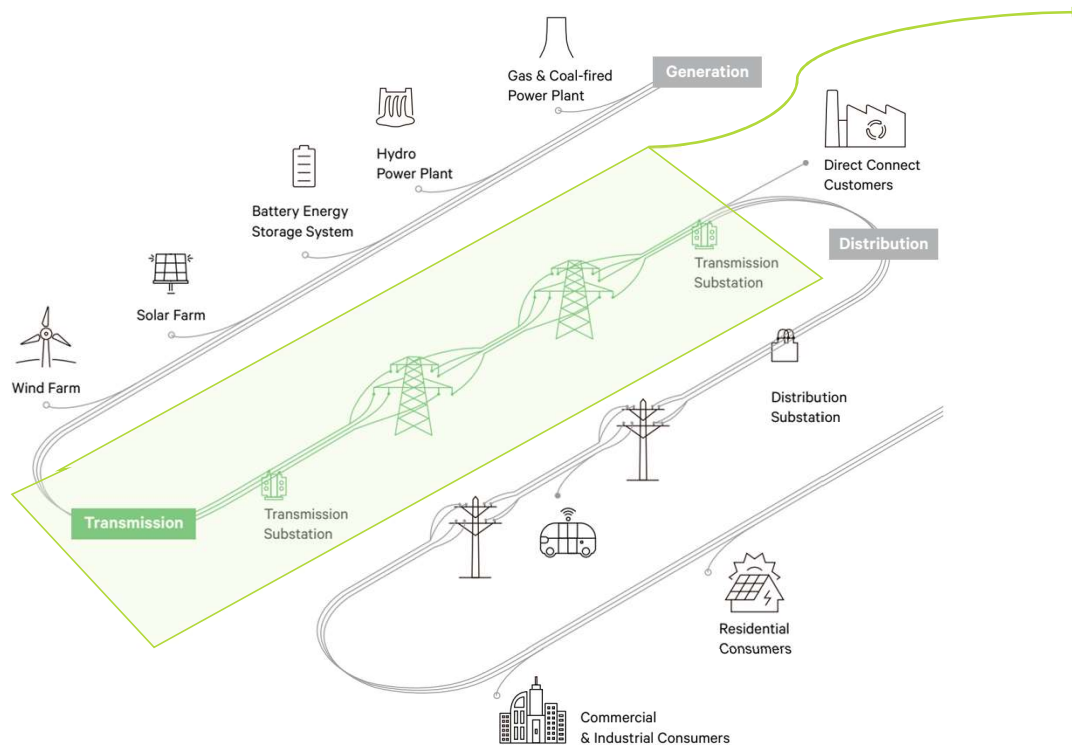
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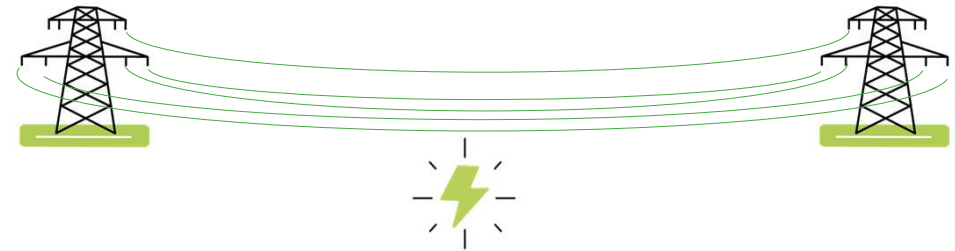
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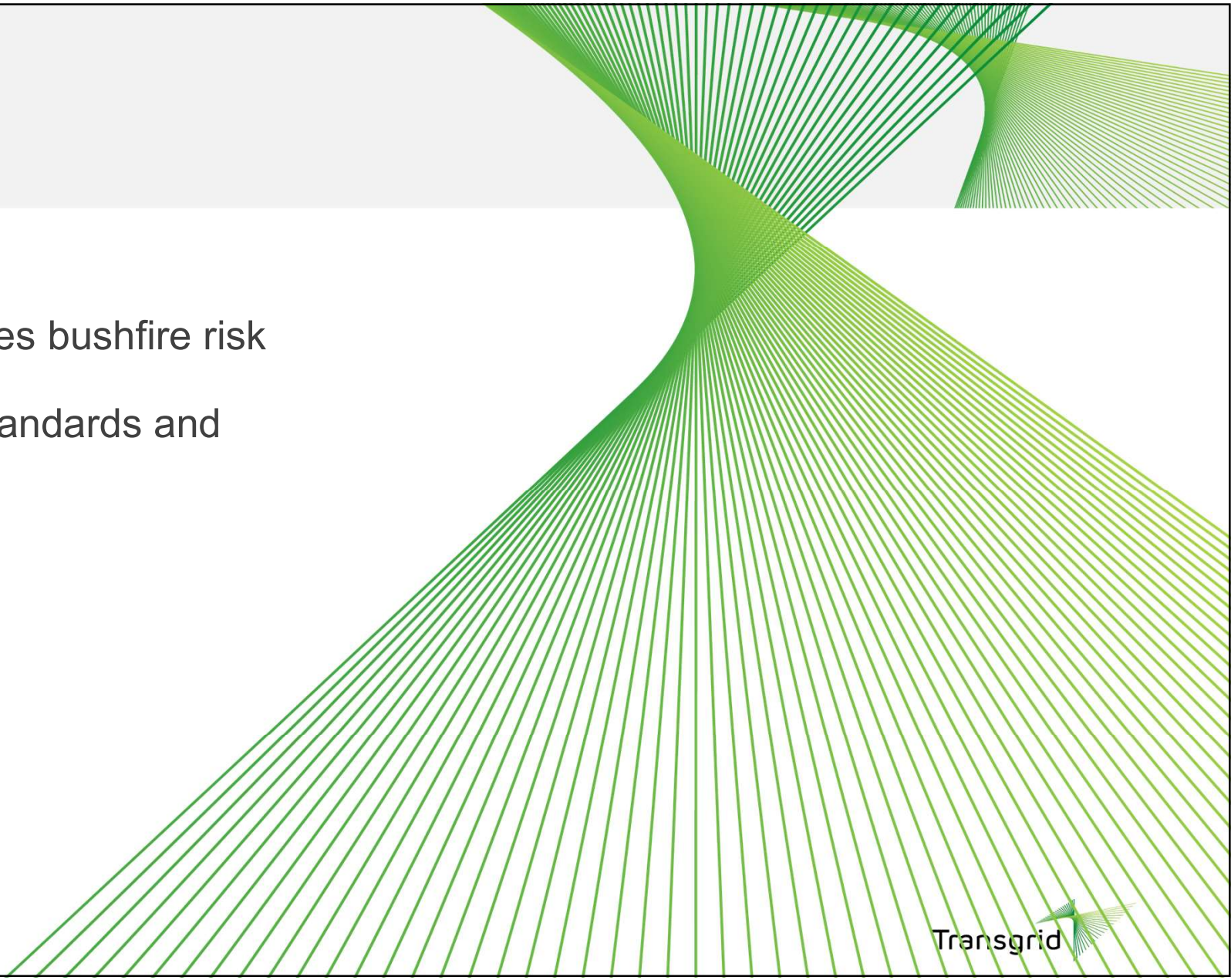
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Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
Compliance Manager

Compliance & Risk Approach

Compliance Instruments

Electricity Supply (Safety and Network Management) Regulation 2014

A network operator must have a safety management system in place that is in accordance with AS 5577; and addresses the **management of bushfire risk** relating to assets capable of initiating a bushfire.

AS 5577 Electricity Network Safety Management

The Standard exists for the support of:

- the **safety of the public**, and persons near or working on the network
- the protection of property and network assets
- safety aspects arising from the protection of the environment, including protection from **ignition of fires by electricity networks**
- safety aspects arising from the loss of electricity supply.

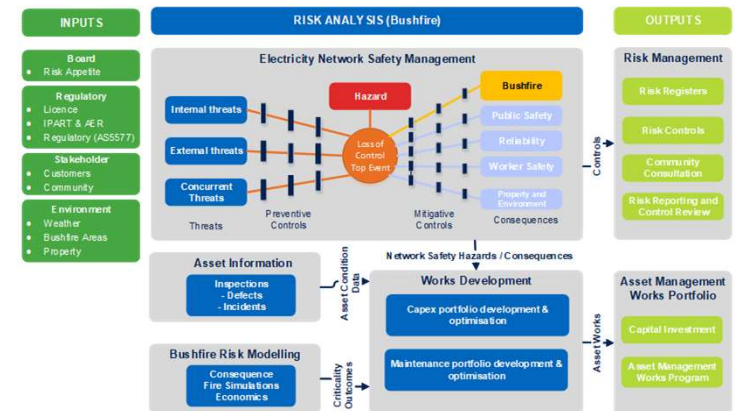
Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
- Incorporates appropriate **oversight and reporting** committees for performance tracking and continuous improvement.
- System effectiveness is frequently assured through internal and external **auditing**.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

Our inspection programs identify high priority asset defects based on failure consequences prior to season commencement to help mitigate bushfire risks, this includes:

1. Vegetation Management

- **Ground easement inspection** and **vegetation management** - ensures clearances to transmission lines are maintained prior to the next maintenance cycle
- Annual **LiDAR inspections** prior to the bushfire season – ensures unexpected growth or intrusions are identified and managed between routine inspections
- **Off easement hazard tree** management is prioritised based on quantified bushfire risk.

2. Transmission Lines

- Annual **aerial helicopter inspections** of network completed prior to bushfire season.
- Annual **ground-based inspection** of the transmission line structures with the highest potential bushfire risk.
- Routine maintenance inspection tasks to **detect defects and assess condition** that helps identify longer-term condition-related deterioration of assets.



Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

- Scope and prioritisation is based on **asset condition and relative bushfire and public safety risk** at each location on the network
- Projects involve:
 - Targeted replacement/refurbishment of corroded fittings, insulators, steelwork, foundation, and conductor.
 - Targeted wood pole replacement with concrete/steel pole due to decay or termite damage.



Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

Phoenix bushfire risk models are current and operational.

Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

Insight: Aims to provide a high degree of assurance our assets do not present bushfire risks prior to season commencement.

Detection and monitoring

Network Operations and field crews have adequate situational awareness of emerging fire events.

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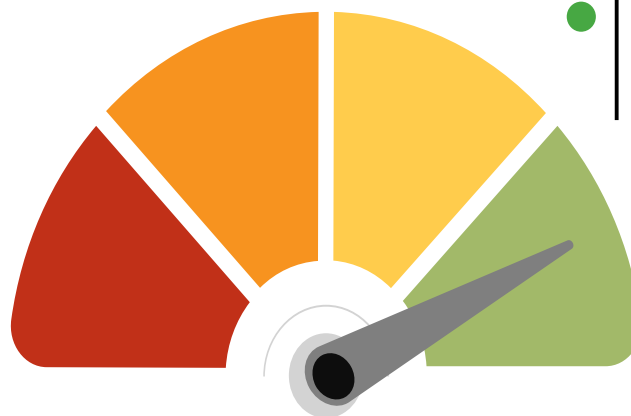
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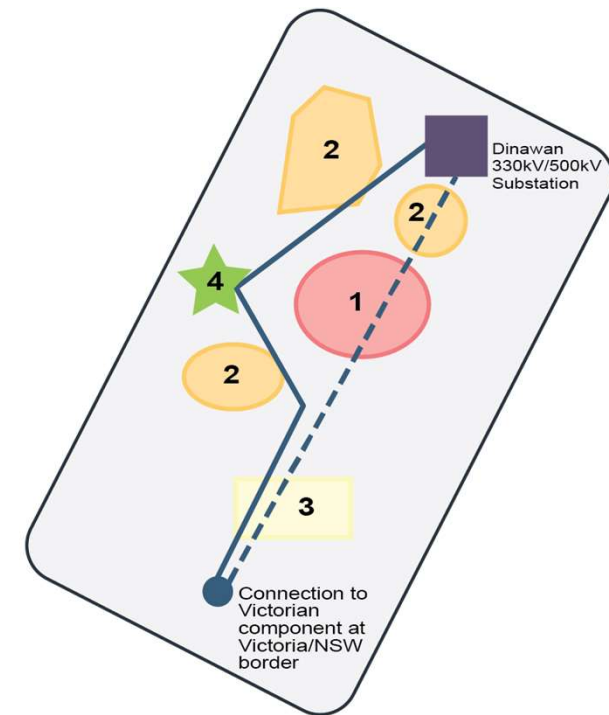
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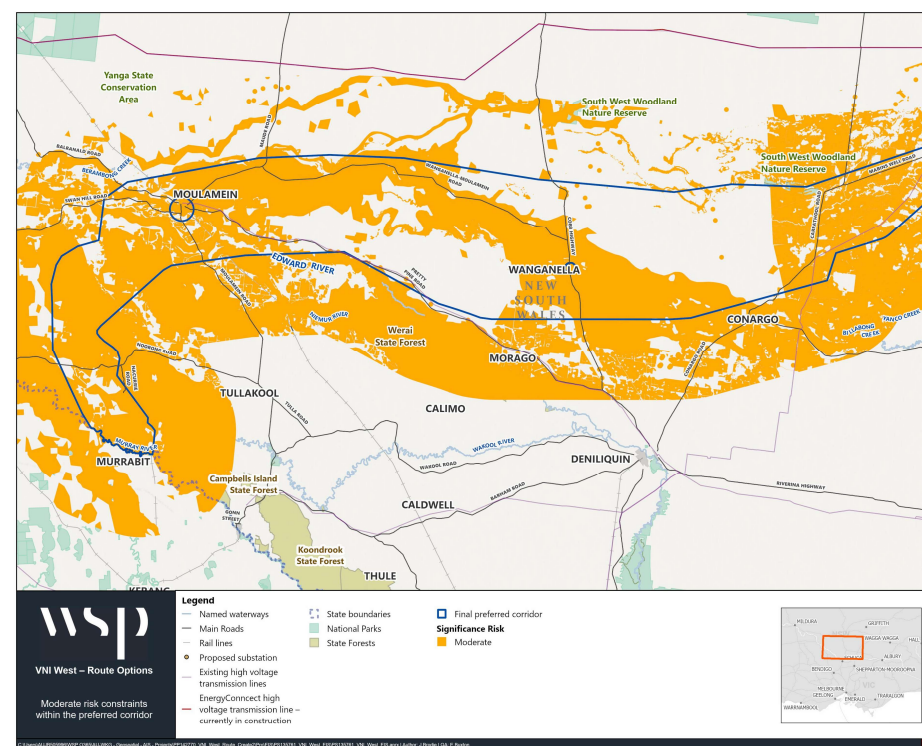
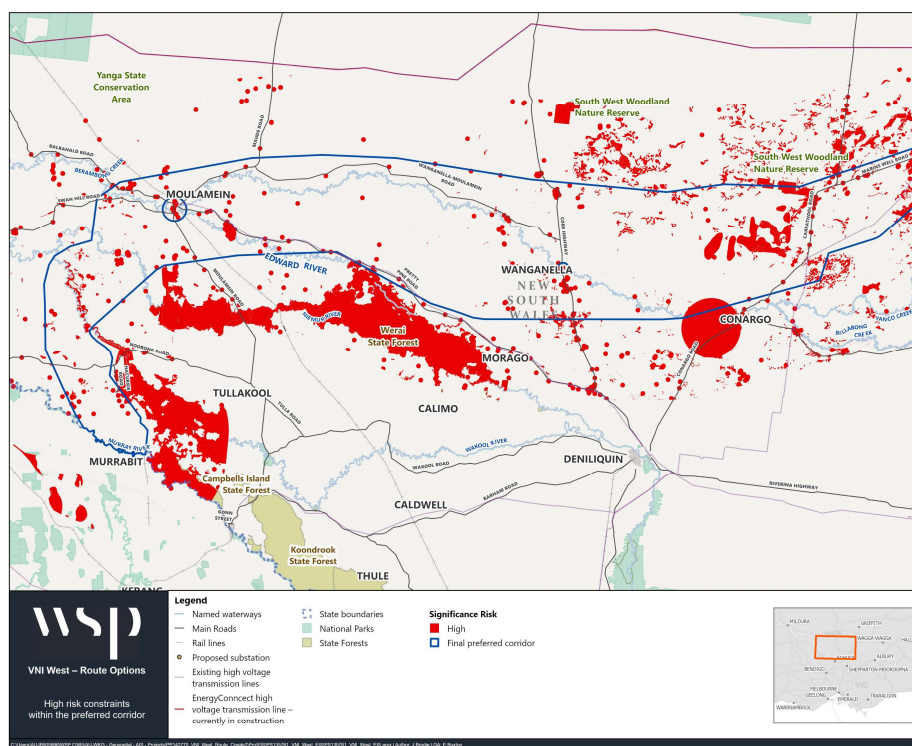
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Opportunities and constraints mapping



Transmission 101 – Q&A

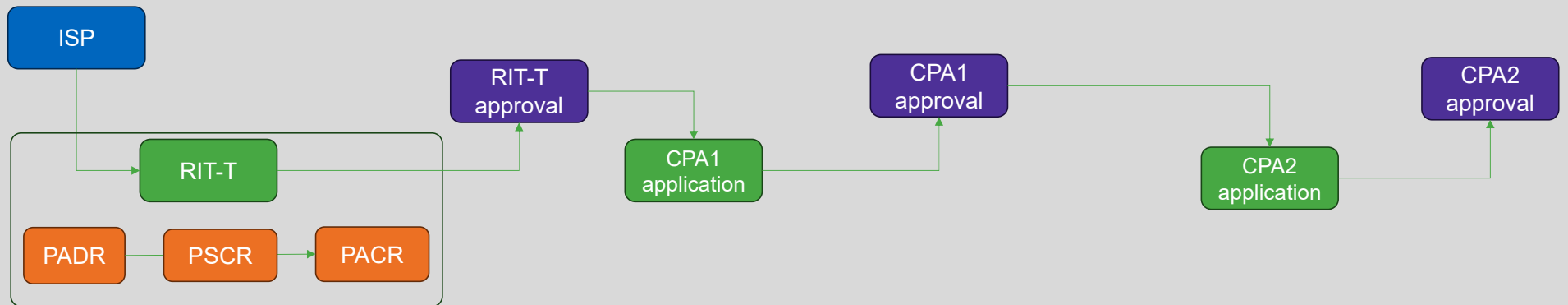
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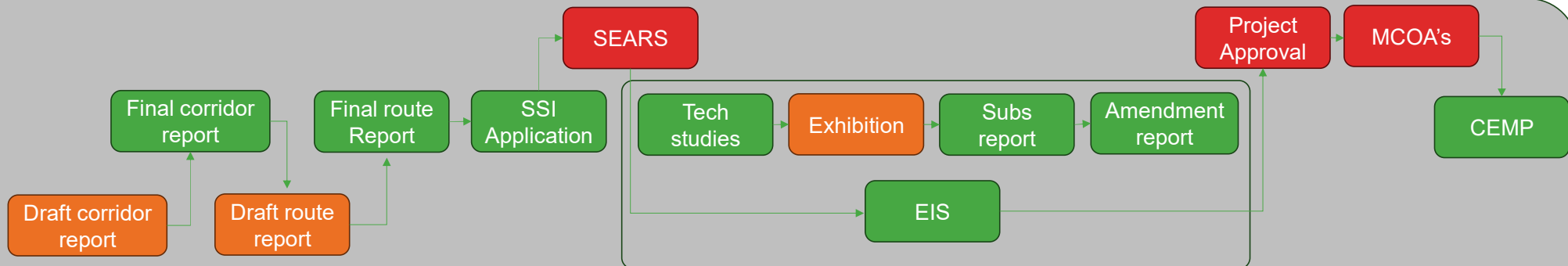


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Planning approval



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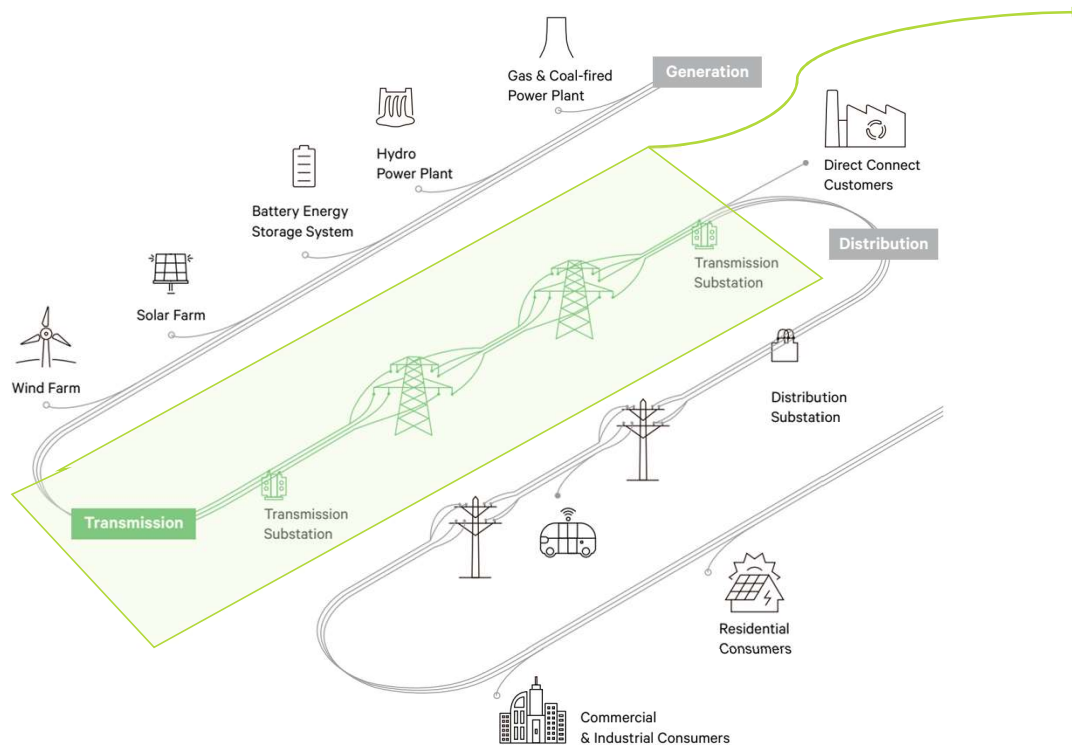
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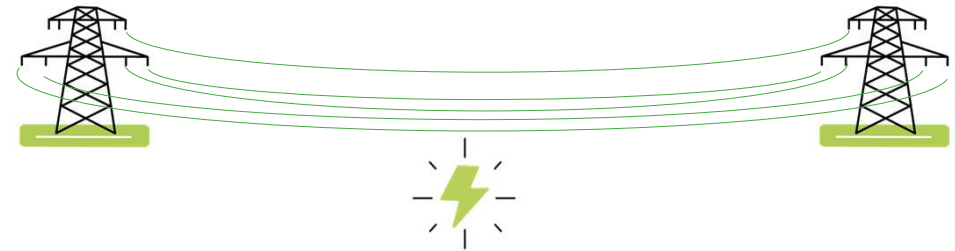
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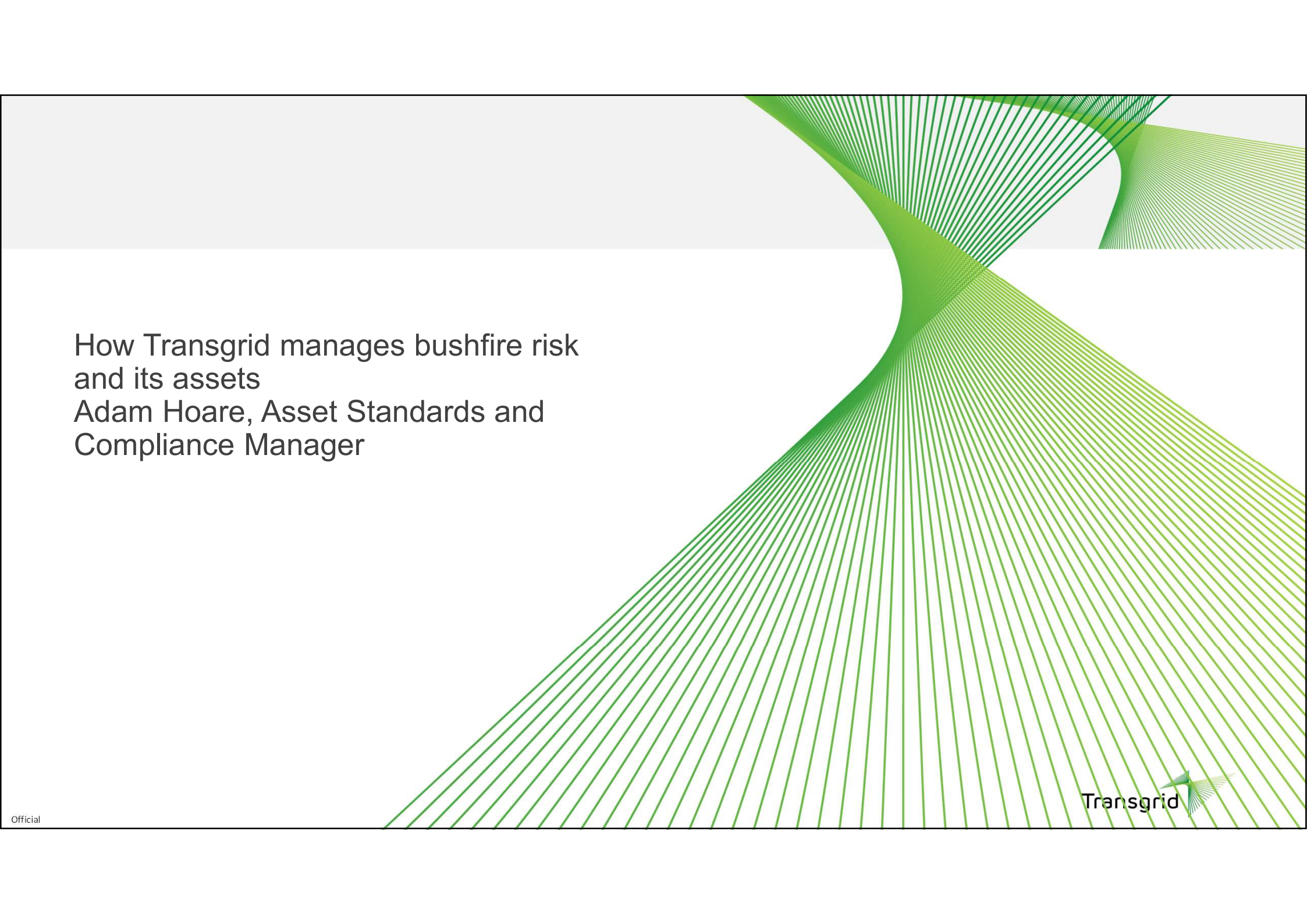
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The Standard exists for the support of:

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- safety aspects arising from the protection of the environment, including protection from **ignition of fires by electricity networks**
- safety aspects arising from the loss of electricity supply.

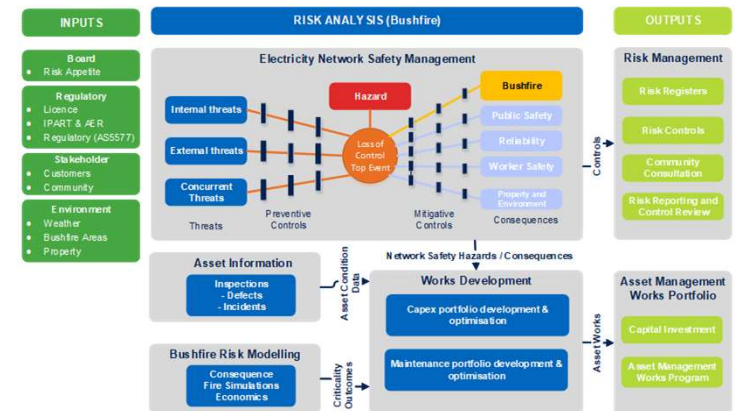
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Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

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Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

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Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

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Organisational Preparedness Assessment – 2023/24 Bushfire Season

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Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

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Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

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Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

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Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

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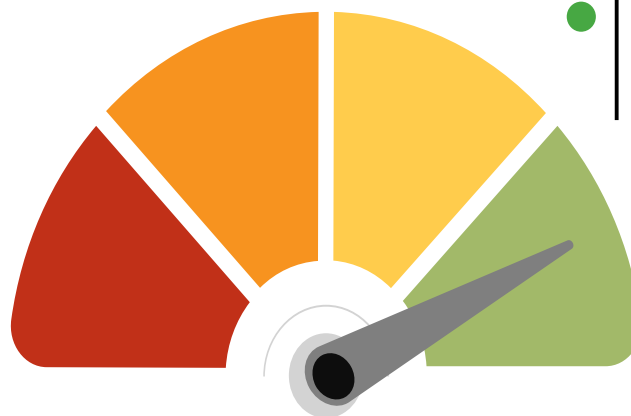
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Thank you for your time

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

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We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



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Route selection methodology

Jarryd Barton
Principal Environmental Planner, WSP



Route selection process

2023

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- Heritage
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- Hydrology and groundwater
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Social / community

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- Visual and landscape

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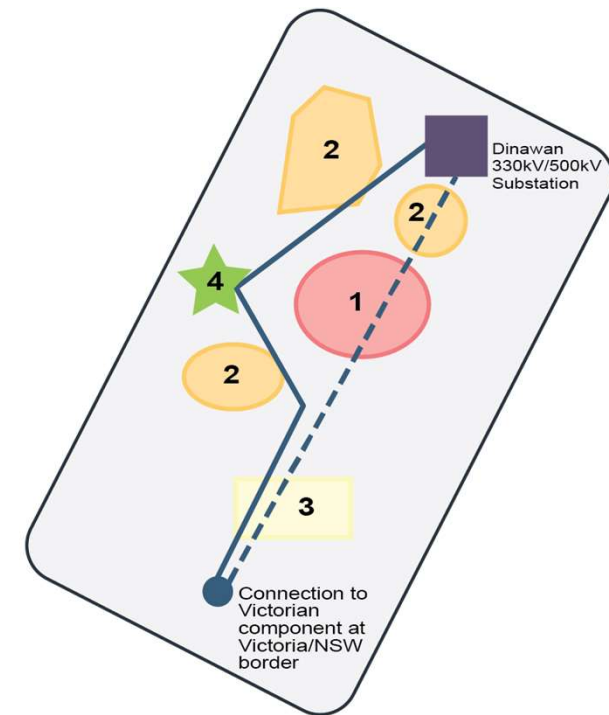
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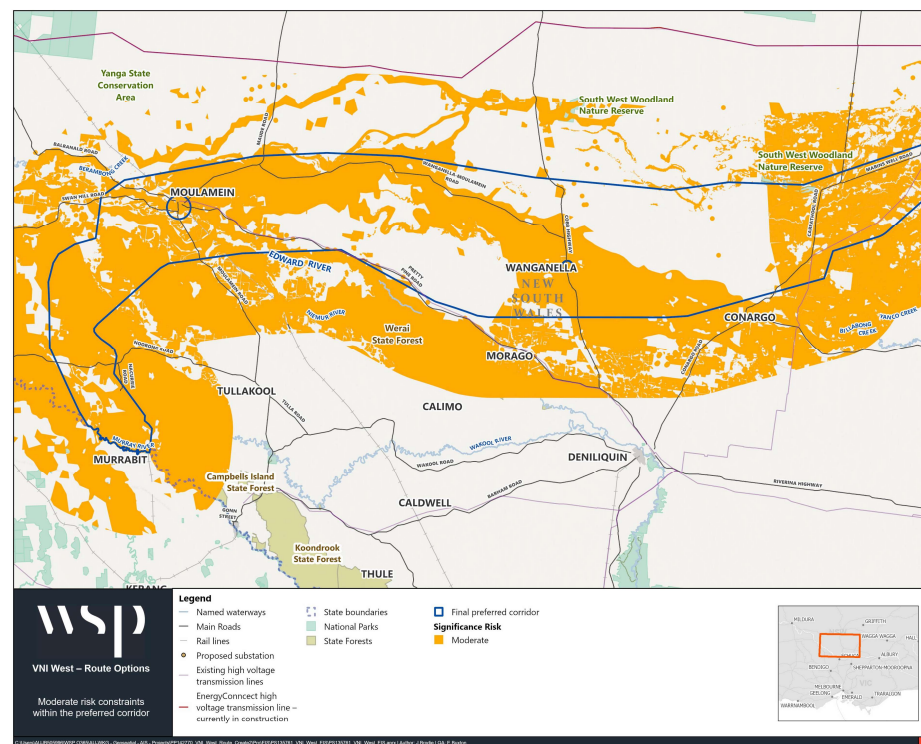
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Transmission 101 – Q&A

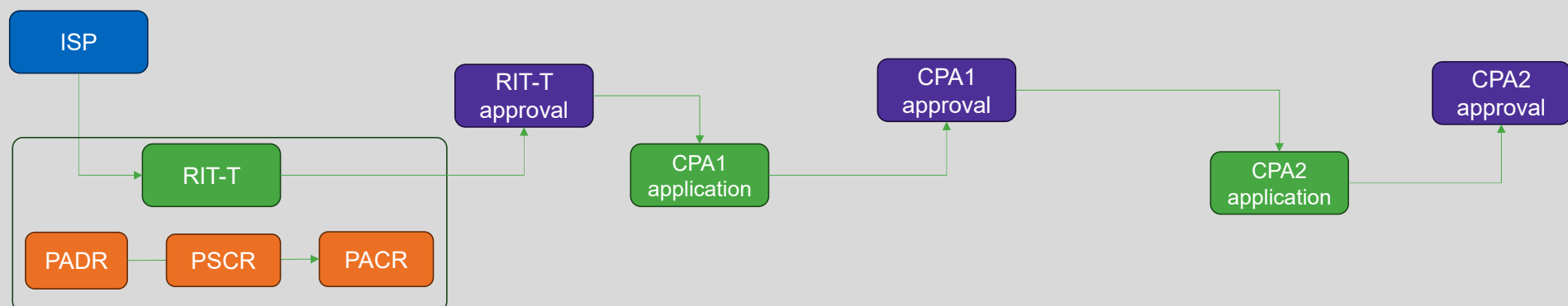
Joel Annett and Colin Mayer

How electricity is managed in NSW

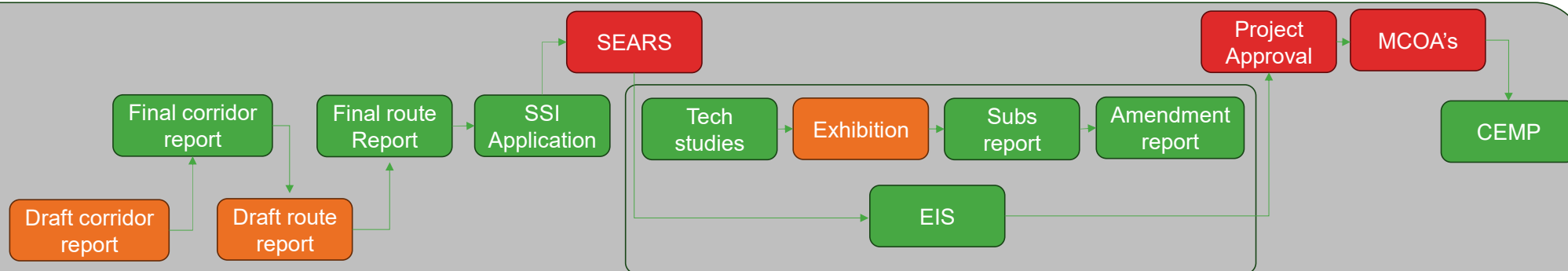


Engagement and approvals process

Regulatory approval



Planning approval



AEMO

AER

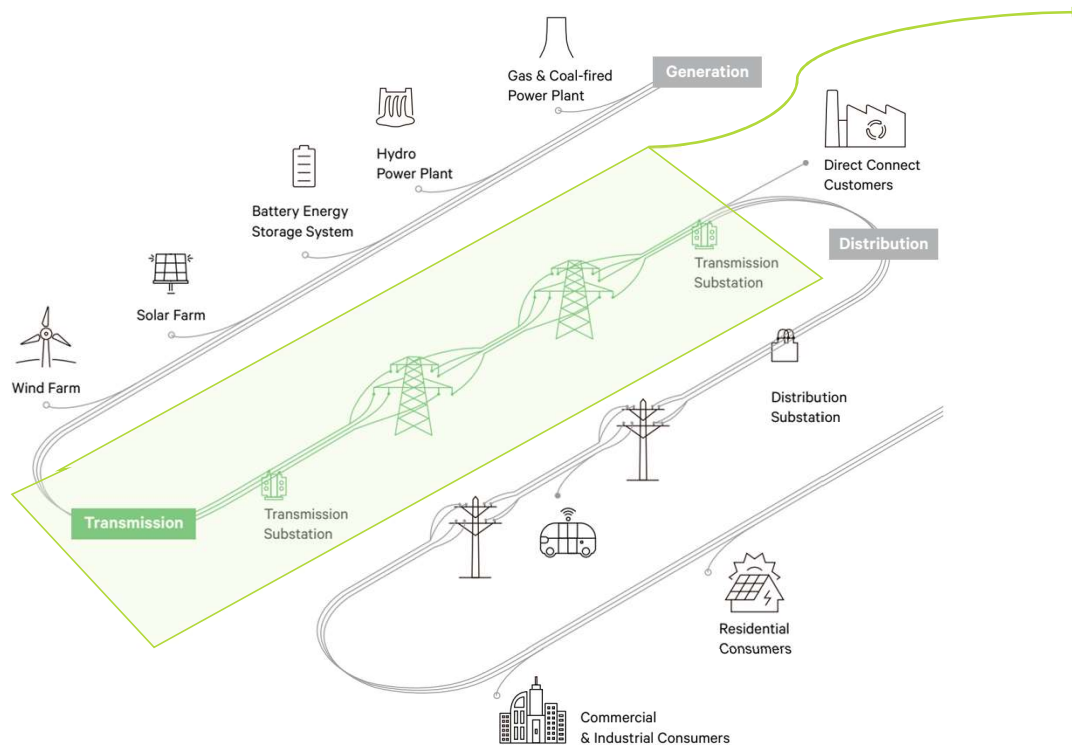
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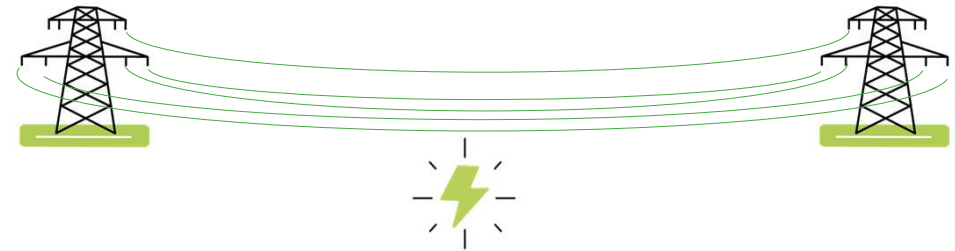
Consultation

Where transmission fits in the system

Electricity Supply Chain



Safe, Reliable & Secure Transmission



Safe – Managing the transmission system in such a way that reduces safety risks to the community, environment and our staff. I.e. keep electricity contained in its conductor.



Reliable – Managing the transmission system to balance generation/supply and load/customer requirements and deliver the quantity/quality of energy where required.



Secure – Managing the transmission system within technical operating limits under system normal and in response to faults/disturbances.

The Environmental Assessment Process

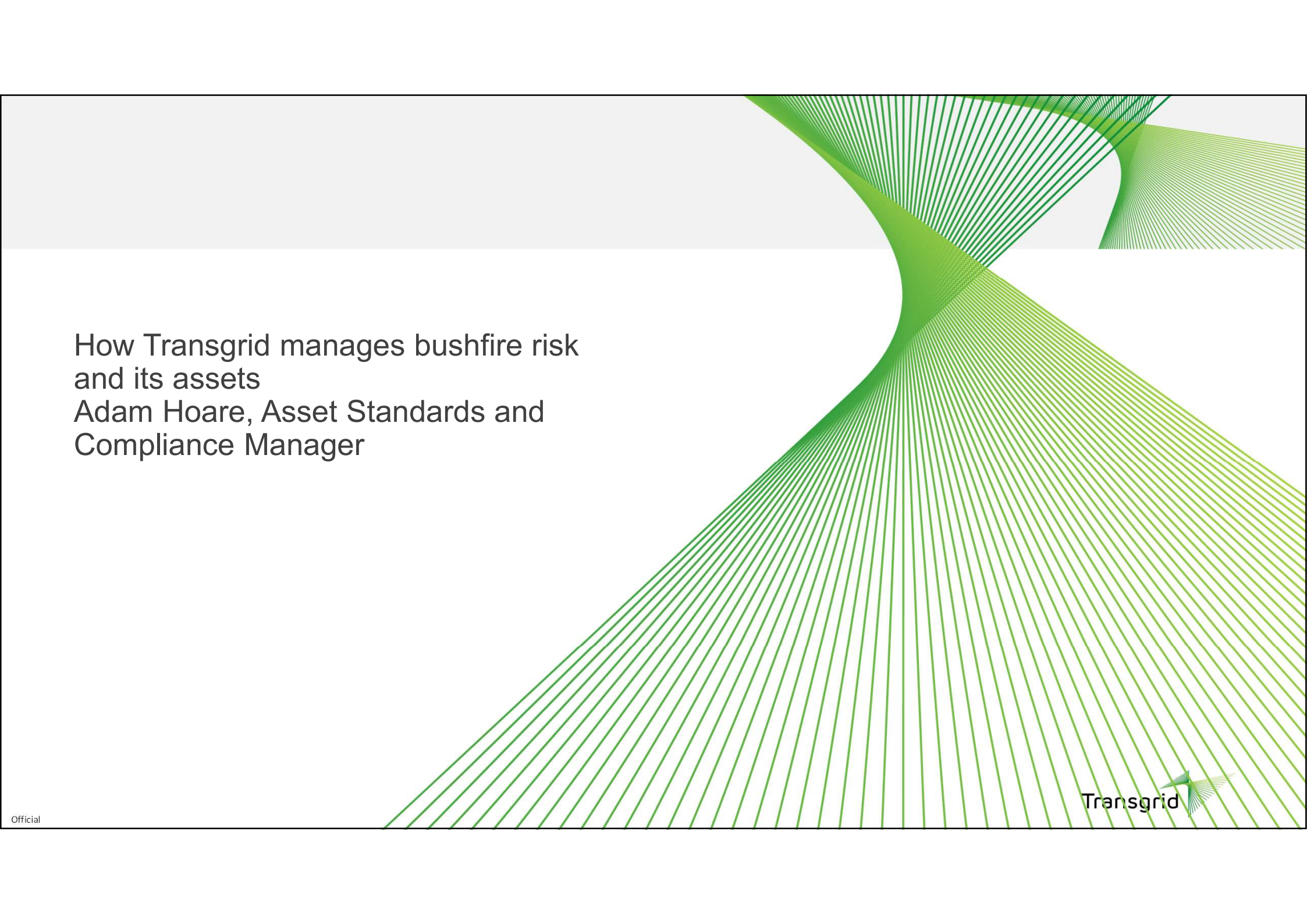
Geoff Hudson, Environment Manager

Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



The background of the slide features a complex, abstract design composed of numerous thin, green lines. These lines are arranged in a way that creates a sense of depth and movement, with some lines radiating from a central point and others forming a series of overlapping, curved shapes that resemble a stylized, elongated 'S' or a series of connected loops. The lines vary in density, creating areas of higher and lower brightness, which adds to the visual complexity of the design.

How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
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Compliance & Risk Approach

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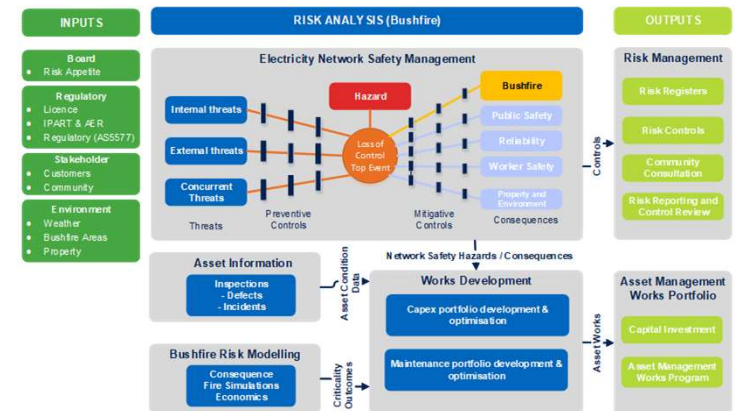
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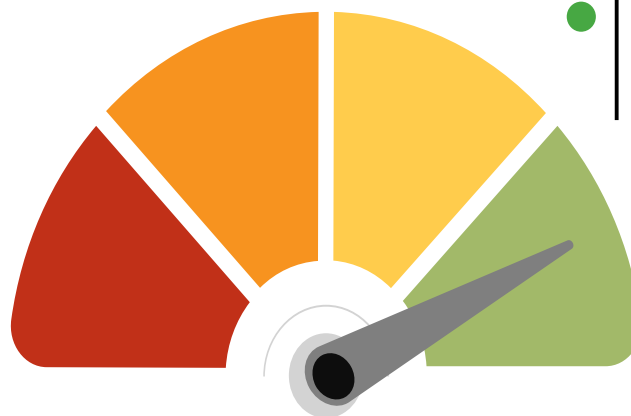
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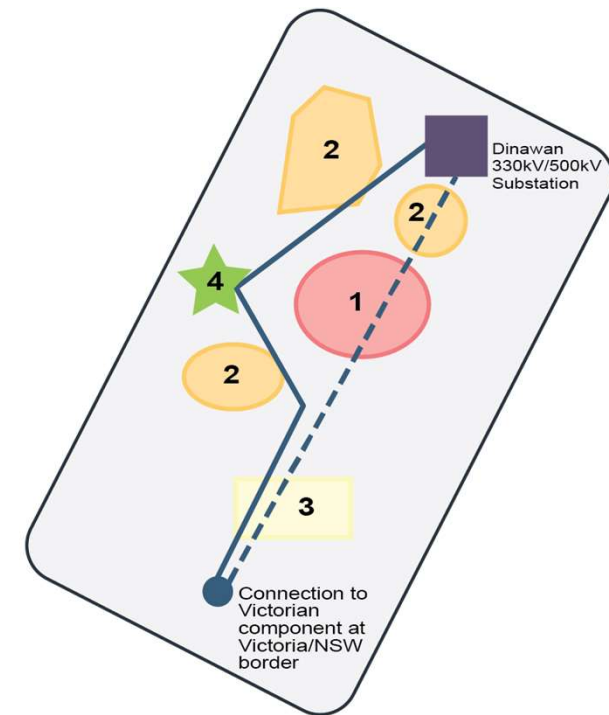
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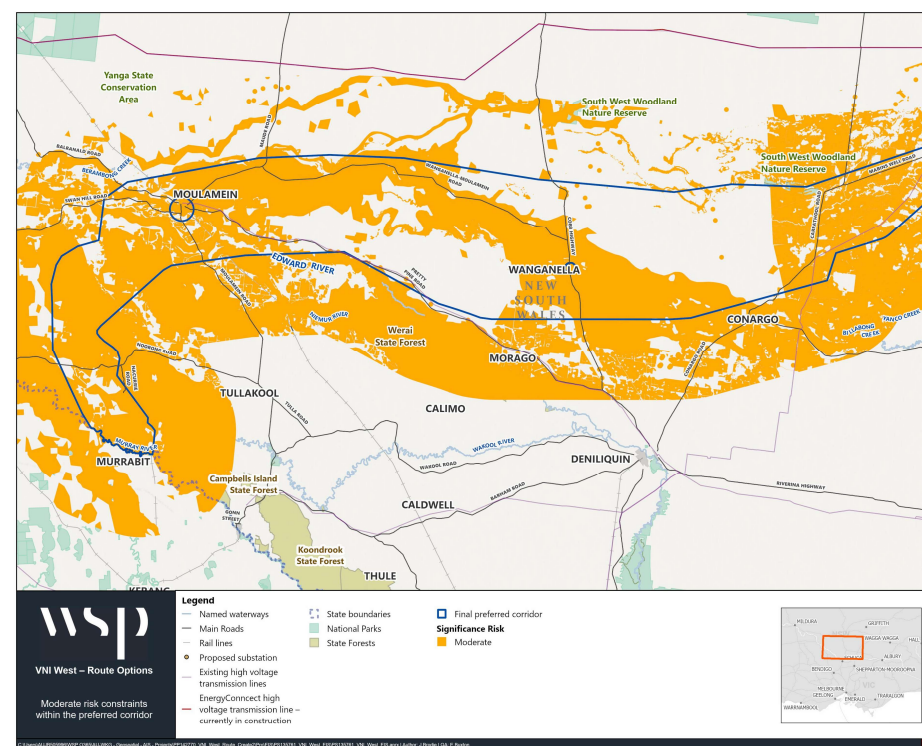
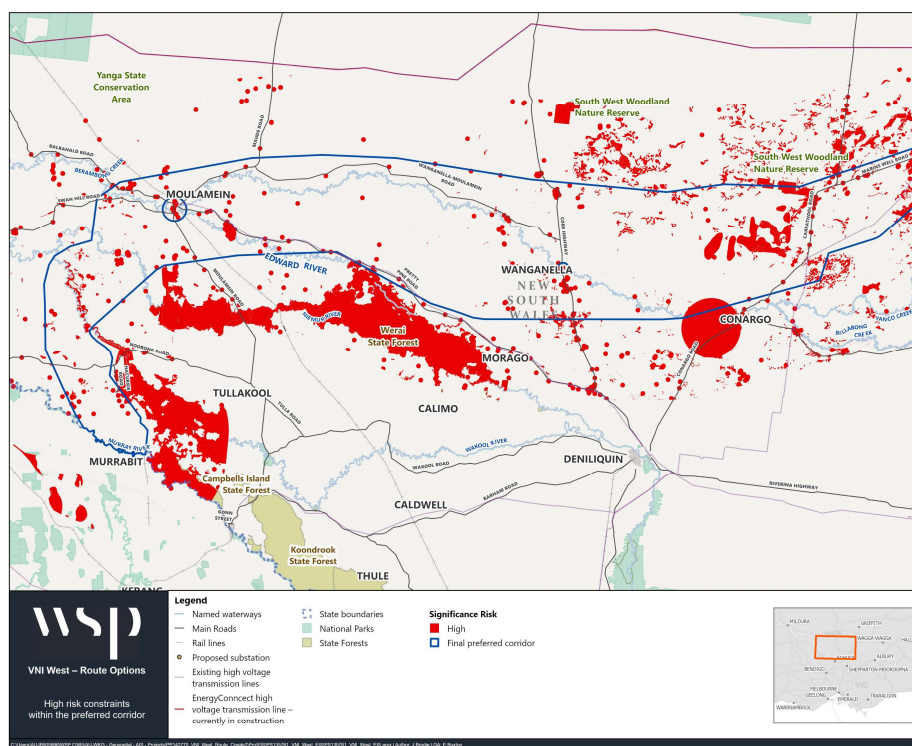
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Opportunities and constraints mapping



Transmission 101 – Q&A

Joel Annett and Colin Mayer

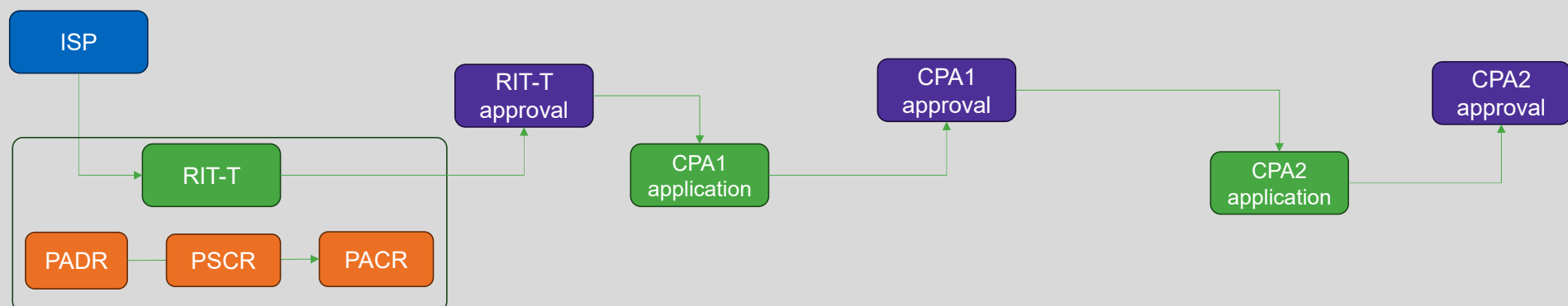


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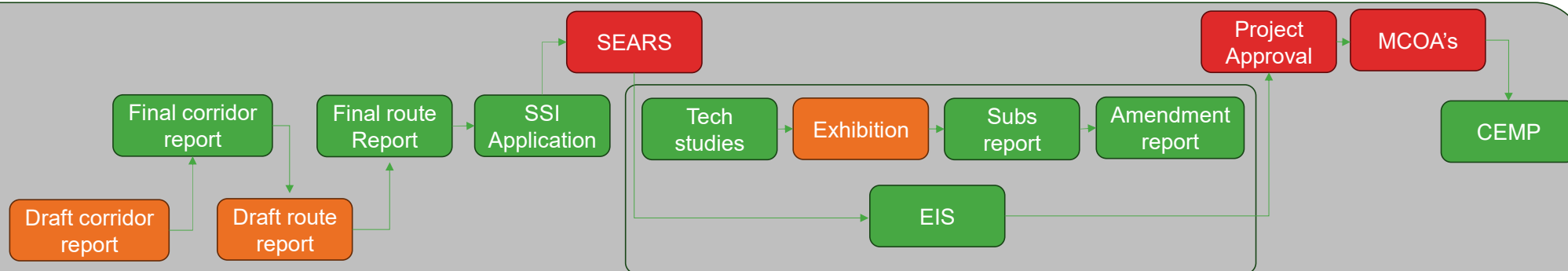


Engagement and approvals process

Regulatory approval



Planning approval



AEMO

AER

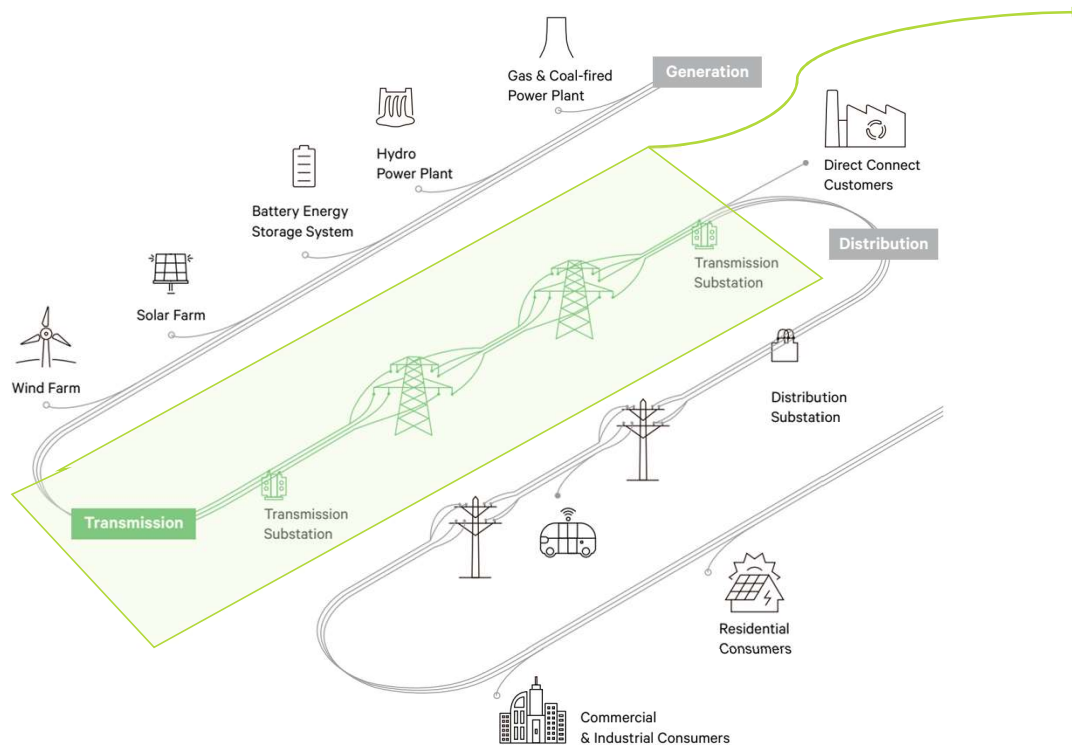
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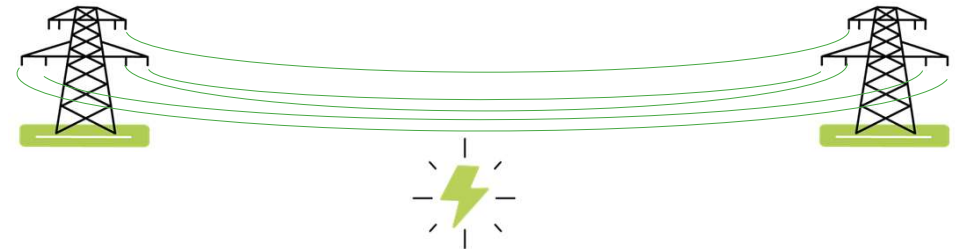
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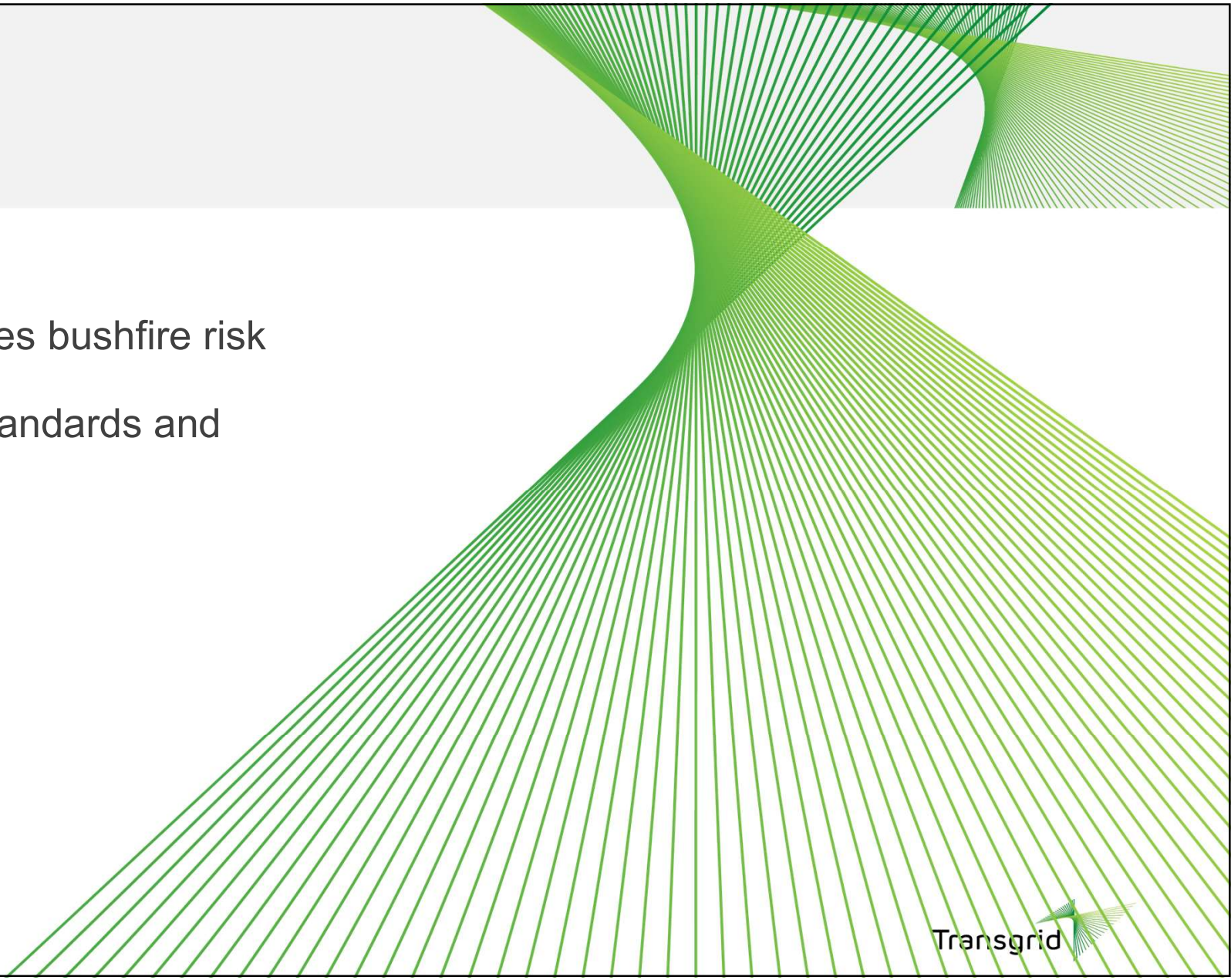
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Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
Compliance Manager

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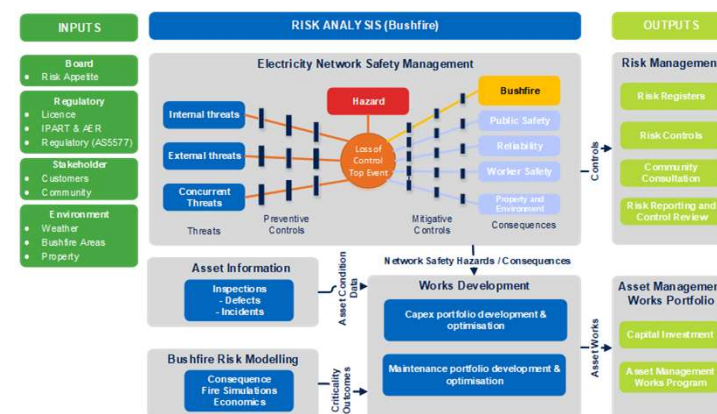
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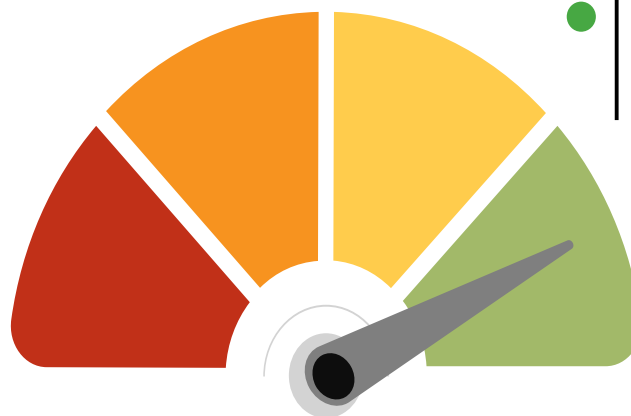
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1. Engage and consult with the relevant internal and external stakeholders
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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

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Route selection process

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 - **Application of weightings to the identified criteria:** To take into account the potential impact rating allocated to each criteria, a weighting system will be used to allow for a suitable numerical scoring output reflective of ratings levels (i.e. high, moderate, low potential impact or opportunity) identified for each of the criteria.

	Traffic light assessment		
Criteria impact	Green	Orange	Red
High impact constraint	+5	0	-5
Moderate impact constraint	+3	0	-3
Low impact constraint	+1	0	-1
Opportunity	+5	0	0

Route options assessment methodology - Evaluation overview

- **Scoring:** This will include an assessment of how each of the identified options perform against the established route assessment criteria. This will be based on a combination of the consideration of the 'traffic light' assessment and associated weighting identified for each criteria.
- **Validation by Community Consultation Group:** Any feedback on the process and criteria received will be considered for incorporation into the final assessment and reporting.
- **Preliminary evaluation of route options:** The identified preliminary route options will be evaluated using the spatial data gathered for the Project.
- **Documenting the route evaluation process:** The documentation of the process will be included in the Draft Route Options Report for the NSW component of VNI West.
- **Exhibition of the Draft Route Options Report:** The Draft Route Options Report will be placed on public exhibition for a period of around five weeks to allow for community and other stakeholder feedback to be received on the draft options considered and the recommended preferred route option proposed.

Hierarchy of constraints

Technical

- Land use
- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
- Visual and landscape

High constraint EXCLUDE

- Areas considered unfeasible for the siting of a transmission line
- Excluded from the assessment

Moderate constraint AVOID

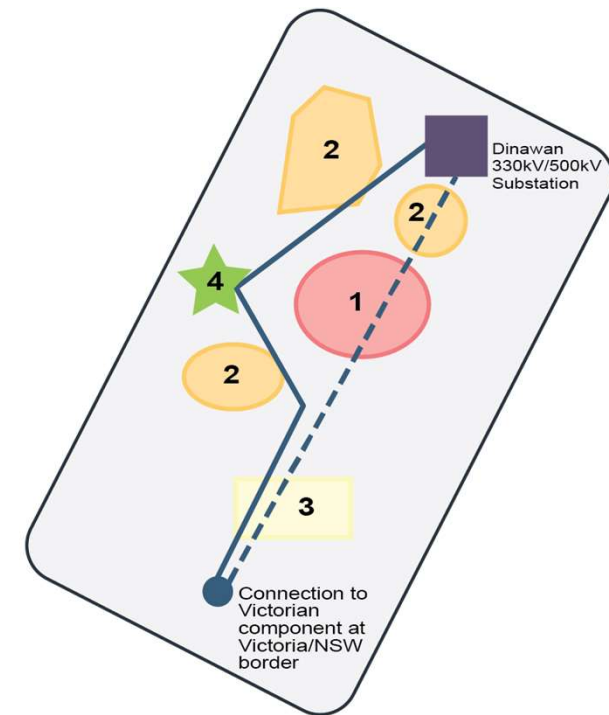
- Areas significantly constrained
- Should be avoided where possible

Low constraint MINIMISE

- Areas that are constrained, however, avoidance may be considered a lower priority
- Minimisation of impact to these areas should be considered

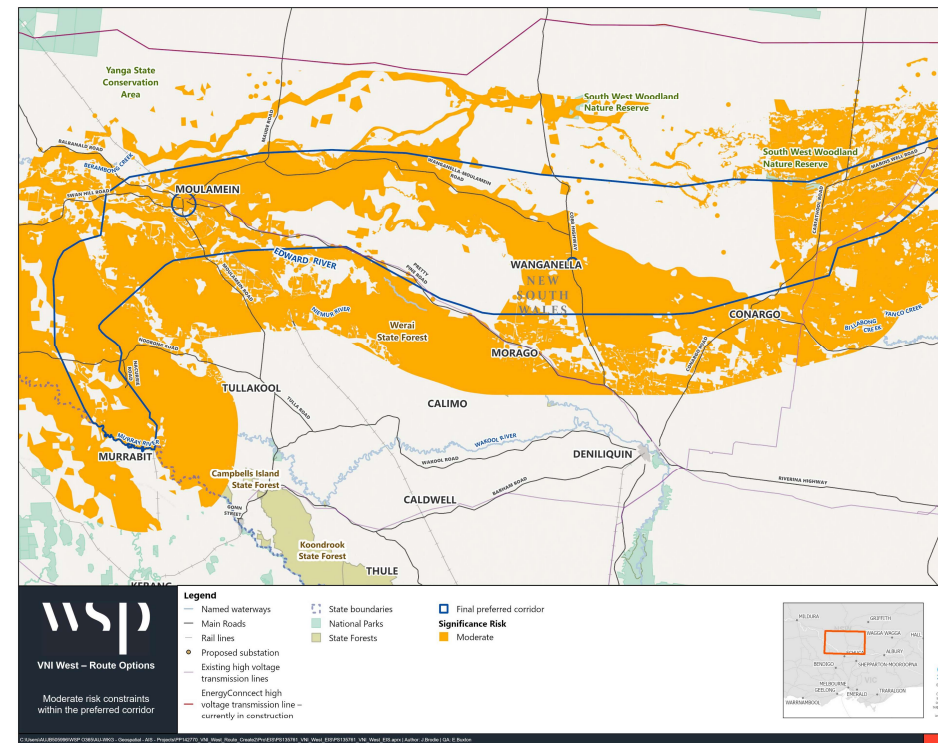
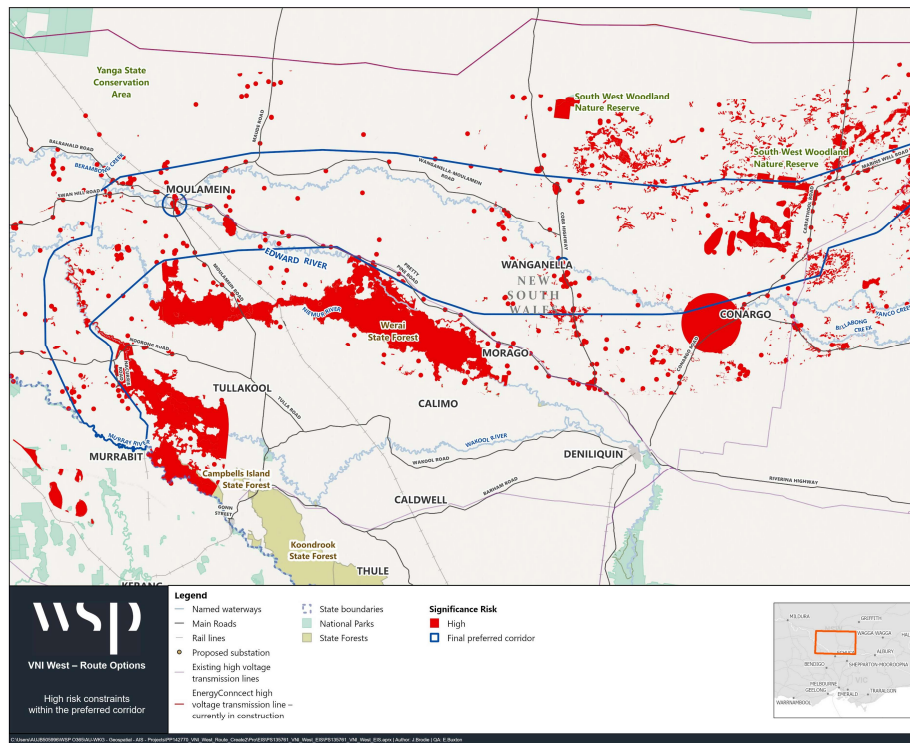
OPPORTUNITIES

- Areas that present potential opportunities for siting of the transmission line
- Should be considered as a preference for selecting and refining the transmission line corridor



- Feasible corridor, avoiding constraints and utilising opportunities
- - - Unfeasible corridor

Opportunities and constraints mapping



Transmission 101 – Q&A

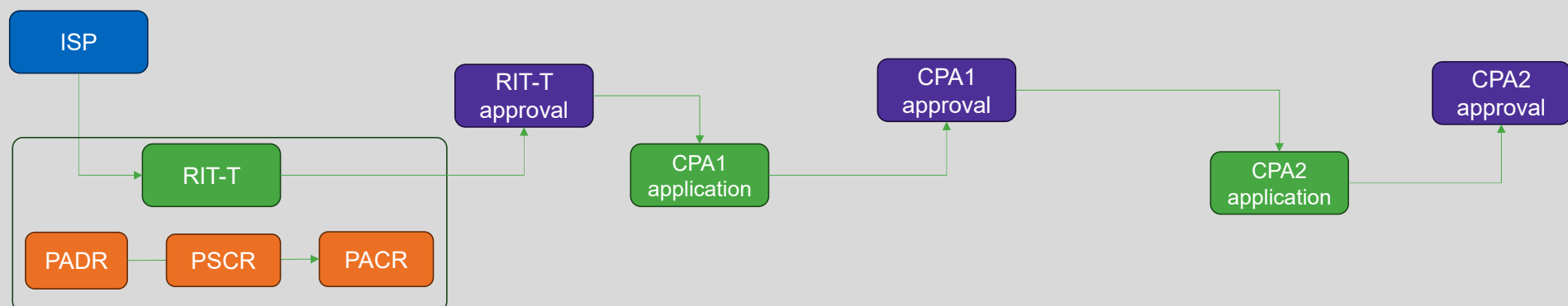
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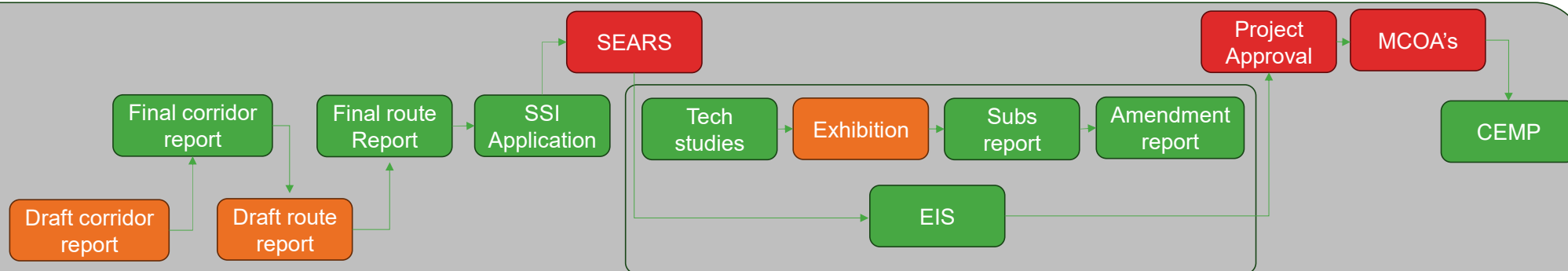


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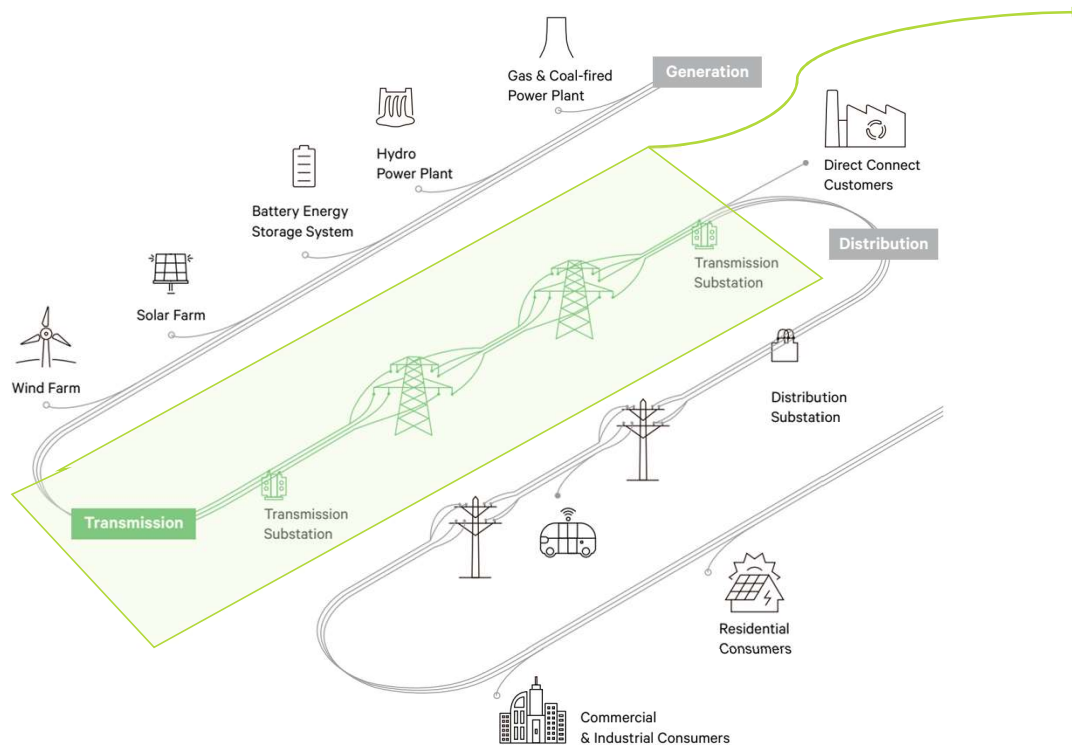
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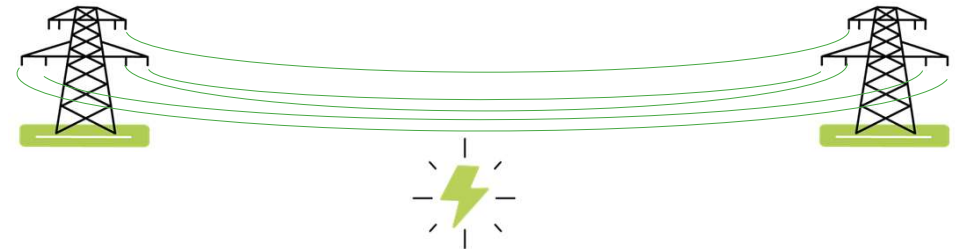
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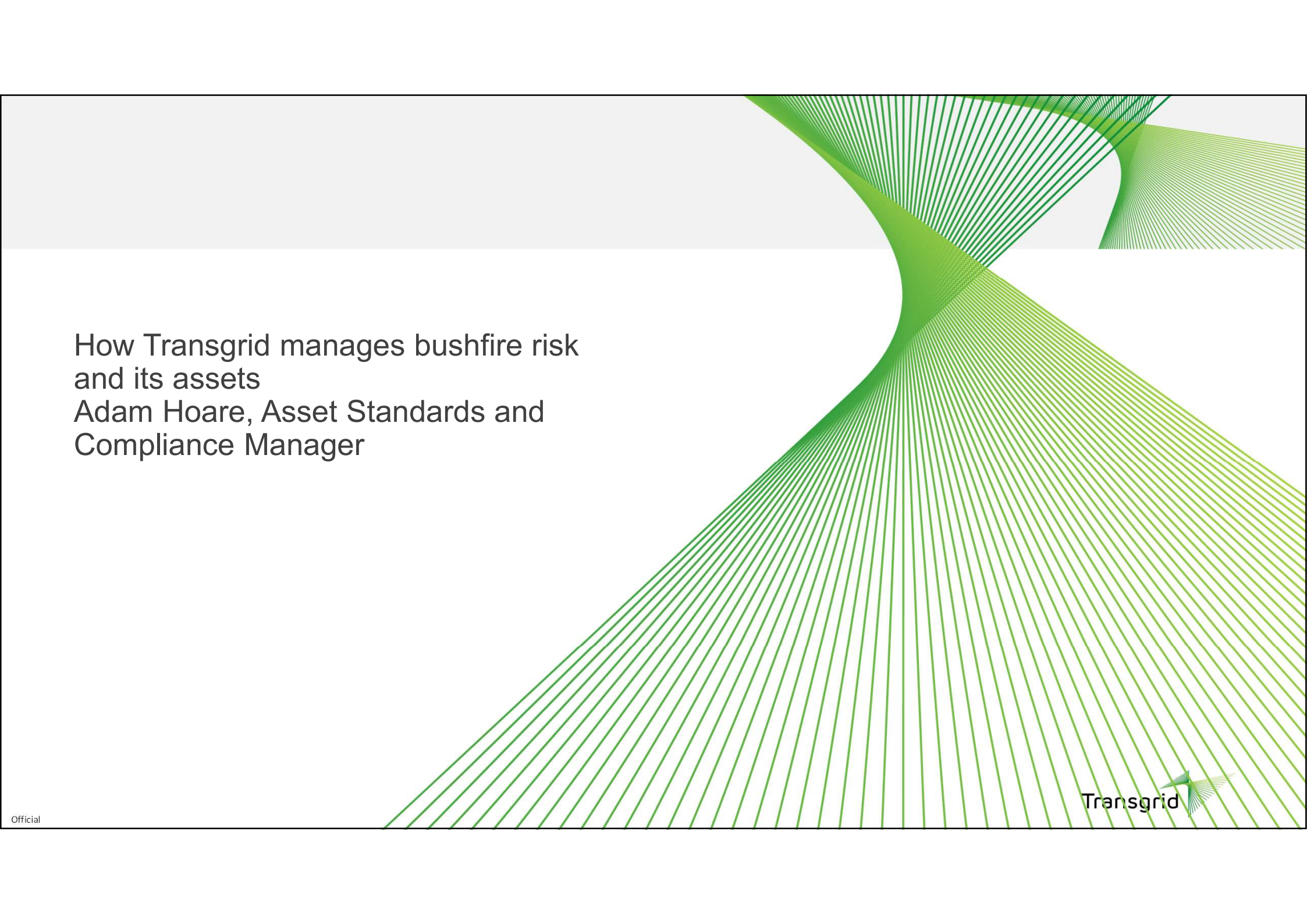
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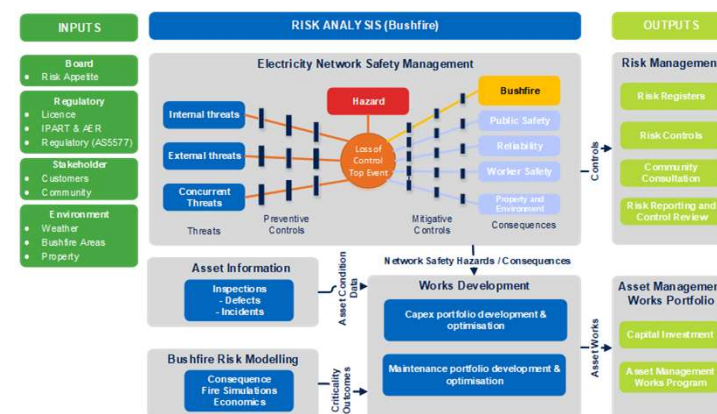
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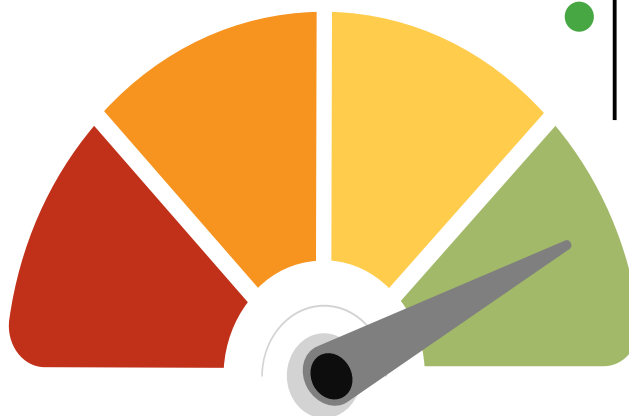
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 - **Application of weightings to the identified criteria:** To take into account the potential impact rating allocated to each criteria, a weighting system will be used to allow for a suitable numerical scoring output reflective of ratings levels (i.e. high, moderate, low potential impact or opportunity) identified for each of the criteria.

	Traffic light assessment		
Criteria impact	Green	Orange	Red
High impact constraint	+5	0	-5
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Opportunity	+5	0	0

Route options assessment methodology - Evaluation overview

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- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
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Social / community

- Land use
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High constraint EXCLUDE

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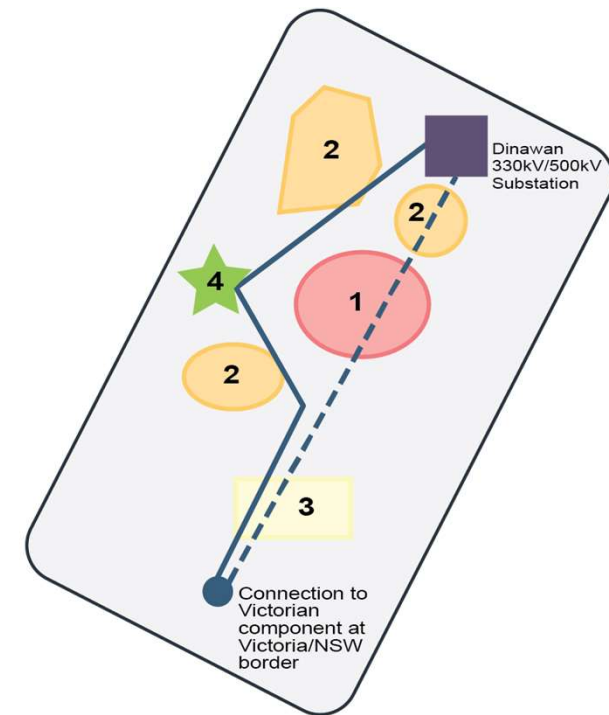
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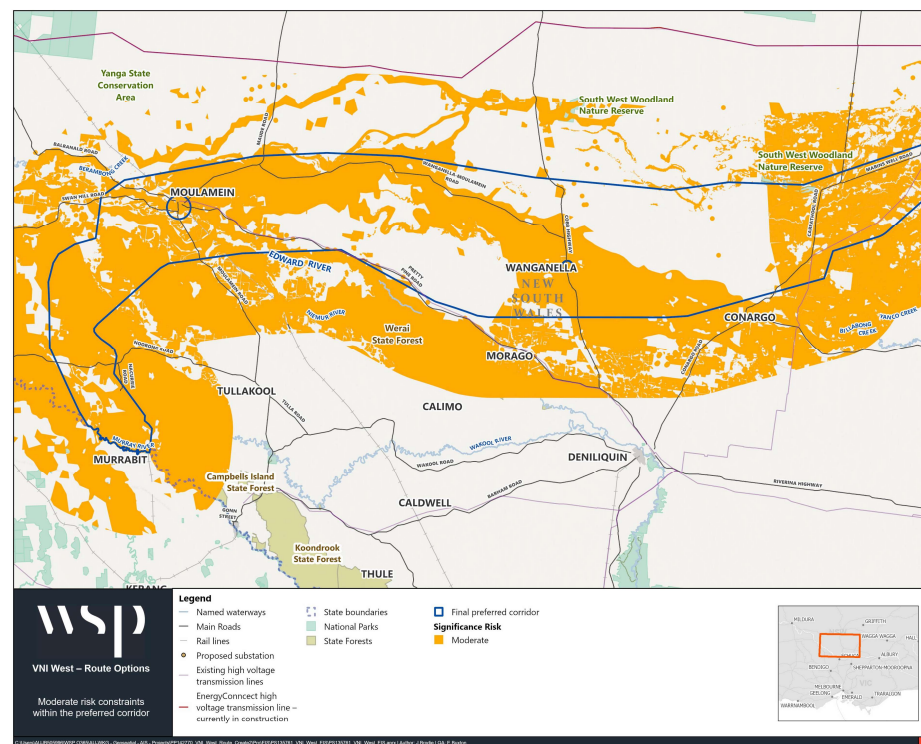
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- Feasible corridor, avoiding constraints and utilising opportunities
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Transmission 101 – Q&A

Joel Annett and Colin Mayer

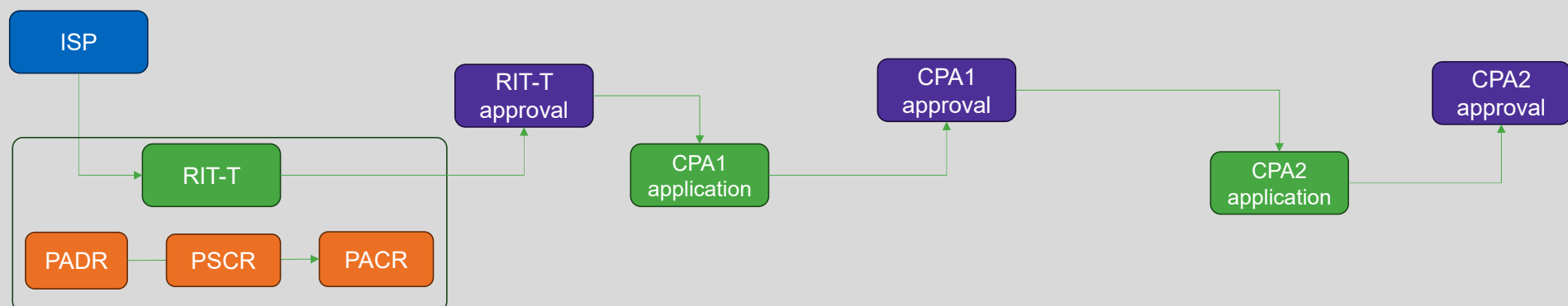


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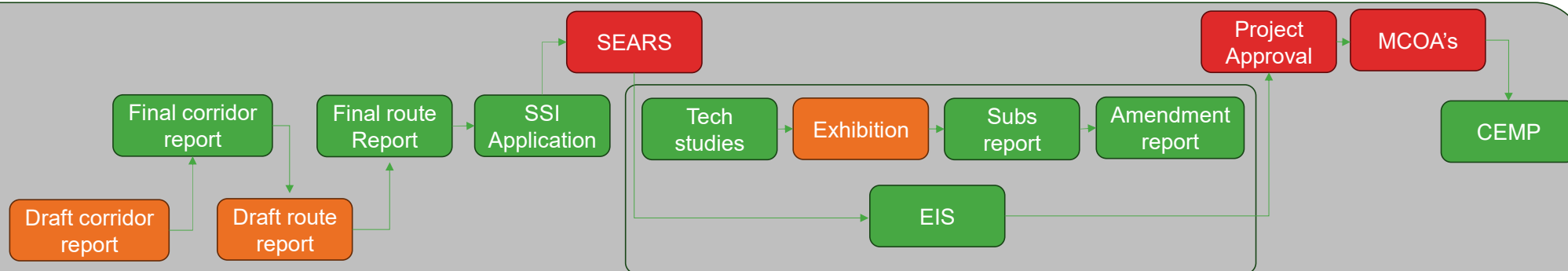


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AEMO

AER

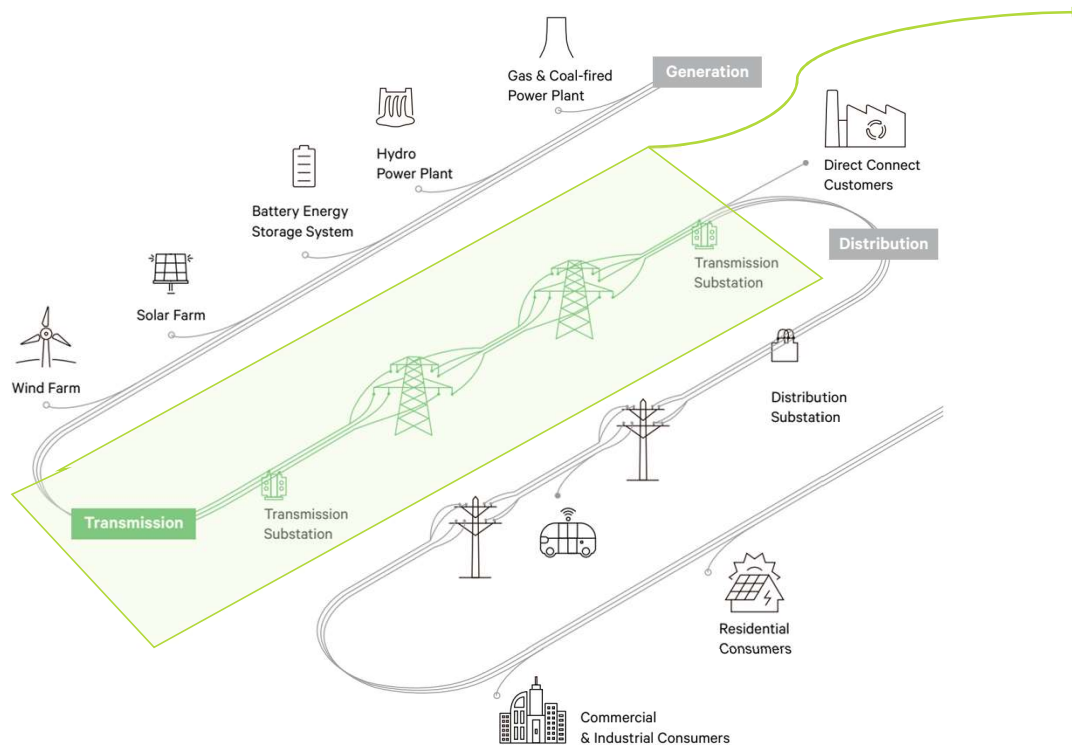
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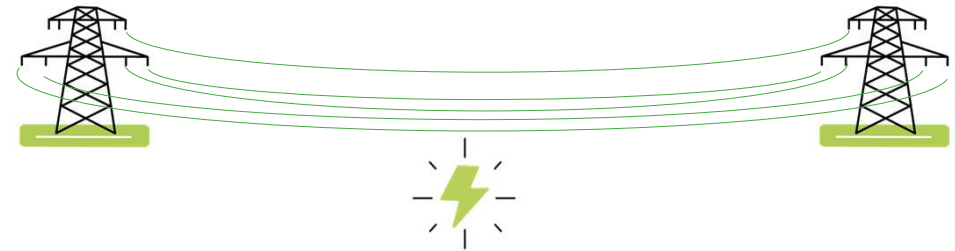
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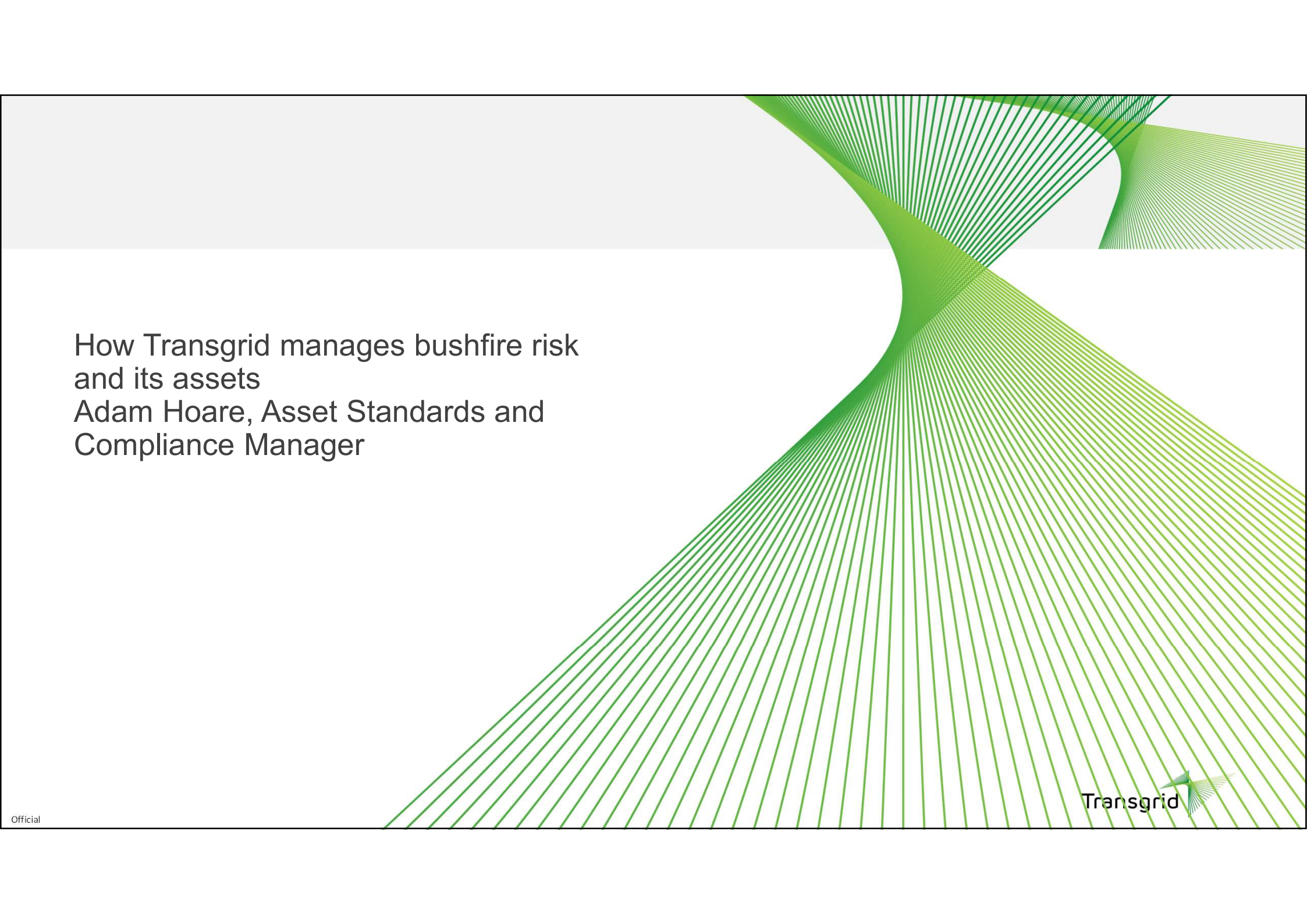
Geoff Hudson, Environment Manager

Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets Adam Hoare, Asset Standards and Compliance Manager

Compliance & Risk Approach

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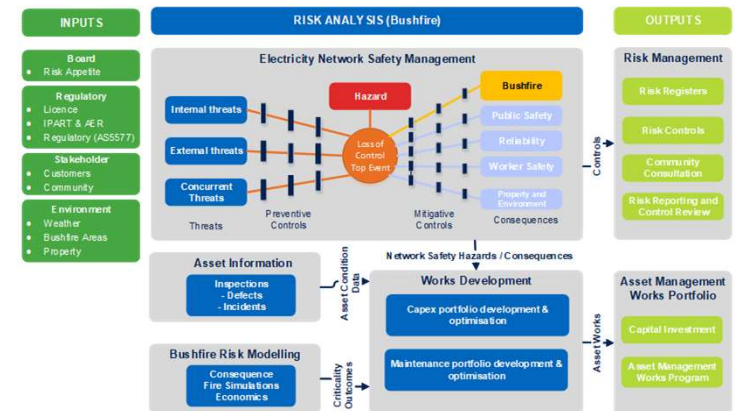
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Risk Approach



Maintenance Activities (vegetation and transmission lines)

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Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

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Organisational Preparedness Assessment – 2023/24 Bushfire Season

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Phoenix bushfire risk models are current and operational.

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Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

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Network Operations and field crews have adequate situational awareness of emerging fire events.

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Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

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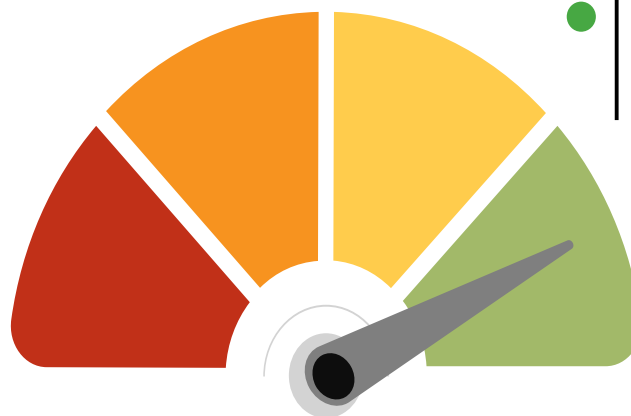
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Overall Assessment

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RFS ICON

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**Energy and Utility
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Joel Annett, Community and
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Community Investment Program

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1. Engage and consult with the relevant internal and external stakeholders
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Telecommunications
Education
Research
Resilience

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Meeting close

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



Agenda

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10:20 – 10:35	Route Selection methodology: • Process and considerations • Hierarchy of constraints	15 mins	Jarryd Barton (WSP)
10:35 – 10:50	Transmission 101 – Q & A	15 mins	Joel Annett, Colin Mayer
10:50– 11:00	The Environmental Assessment process	10 mins	Geoff Hudson, Transgrid
11:00 -11:15	How Transgrid manages bushfire risk and its assets	15 mins	Adam Hoare, Transgrid
11:15- 11:30	Community Benefit – Framework and engagement	15 mins	Joel Annett
11:30- 11:45	VNI West Consultation and engagement program	15 mins	Nathan Menser and Joel Annett
11:45 – 12:00	Wrap up and close	15 Mins	Brendan Blakeley

Review of Meeting 1 minutes and action items

Action items

Agenda item	Description	Person responsible	Status
4. Preferred Corridor report: Key Themes	- Summary on how Transgrid arrived at the preferred corridor for VNIW - Send Draft Corridor report to group - Provide group with Departmental description of CSSI	Secretary/Nathan Menser	Completed
6. Route selection	CCG members asked for feedback on the route selection assessment criteria	CCG	No feedback received
8. Meeting schedule	Proposed dates and formats to be sent to CCG for upcoming meetings	Secretary	Completed
Questions on notice	Can Preferred Corridor Report submissions be made available to the group? Cultural heritage studies, particularly the predictive modelling, will these be made available to the CCG?	Secretary/Joel Annett/Geoff Hudson	Completed

Route selection methodology

Jarryd Barton
Principal Environmental Planner, WSP



Route selection process

2023

2024



Typically between 10 and 50 kilometres (depending on project scale)

Typically between one and 10 kilometres wide



Typically up to around one kilometre wide

Typically up to 200 metres wide (with the potential for wider area(s) up to one or more kilometres wide where further investigation may be required)

Route options assessment methodology - Current progress

- Review and update of constraint and opportunity criteria
 - Testing and agreement of the technical, environmental and social/community criteria
- Identification of preliminary route options
 - With a focus on the high and moderate potential impact constraints, a series of preliminary routes have been identified
 - This was undertaken both through visually analysing the constraint mapping of high and moderate potential impact constraints and identifying best-fit alignments which were readily apparent from the mapping.
- Refinement to a short-list of route options for taking forward to assessment
 - The preliminary route options are currently being refined to a short list of feasible options
 - The short-listed route options will then be subject to the assessment methodology and further detailed consideration.

Route options assessment methodology - Evaluation overview

- The route evaluation and assessment methodology will consist of the following components:
 - **Application of a traffic light scoring system supported by qualitative data:** Utilising the available mapping data (including feedback received from CCG members), each of the options will be considered as to whether they have an 'on-balance' positive, neutral or adverse outcome.

Positive outcome compared to other options

Neutral outcome compared to other options

Adverse outcome compared to other options
 - **Application of weightings to the identified criteria:** To take into account the potential impact rating allocated to each criteria, a weighting system will be used to allow for a suitable numerical scoring output reflective of ratings levels (i.e. high, moderate, low potential impact or opportunity) identified for each of the criteria.

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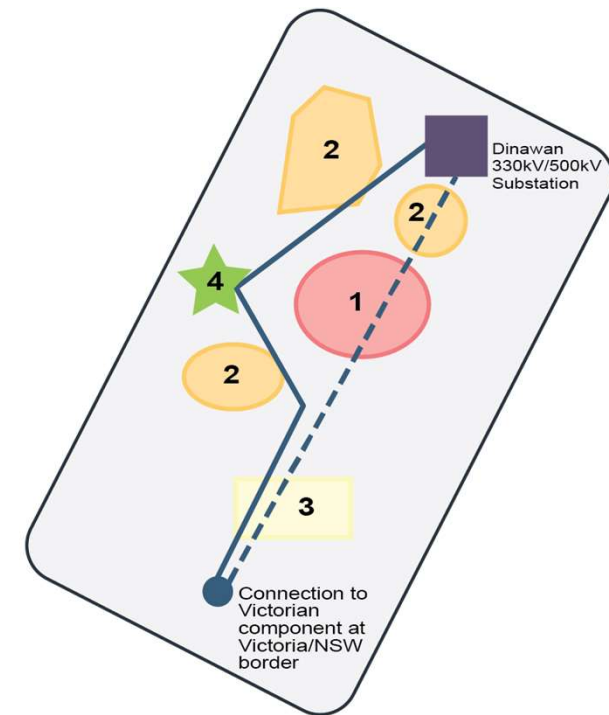
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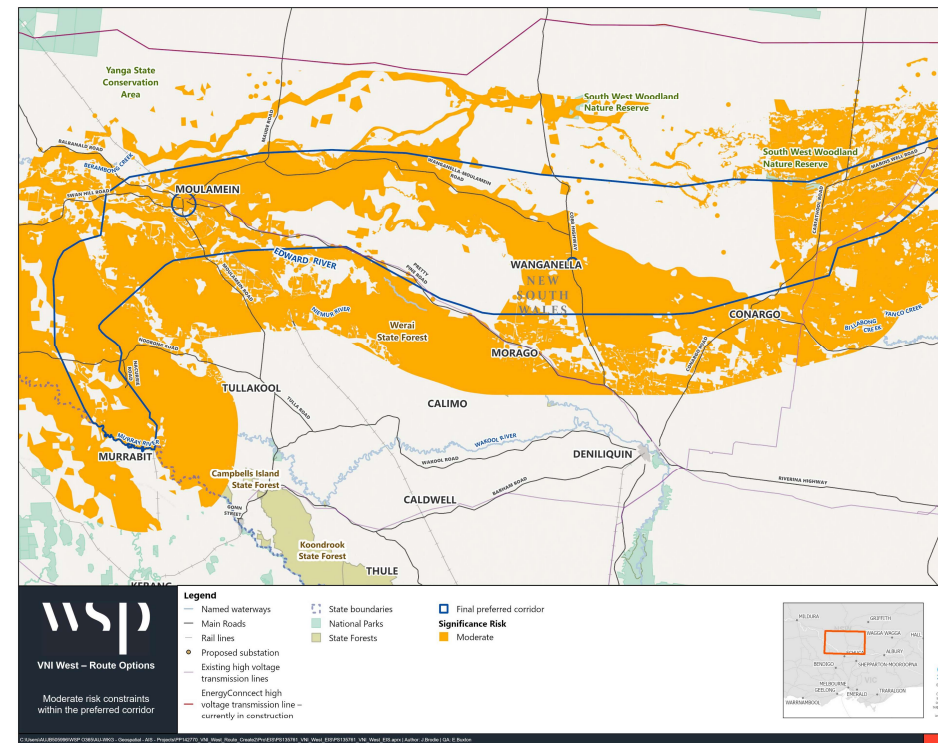
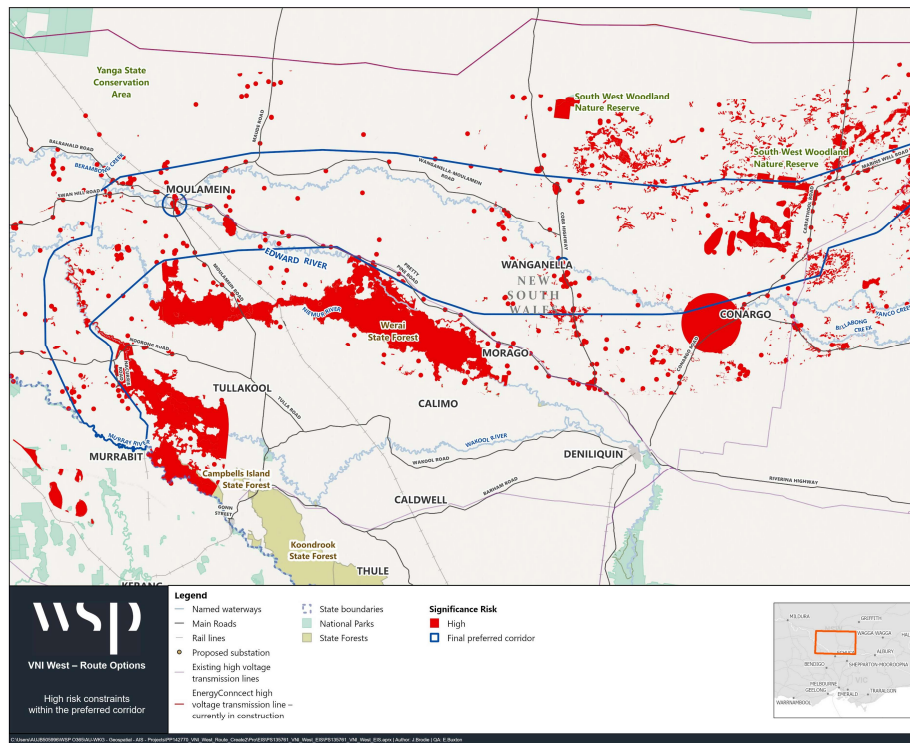
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Opportunities and constraints mapping



Transmission 101 – Q&A

Joel Annett and Colin Mayer

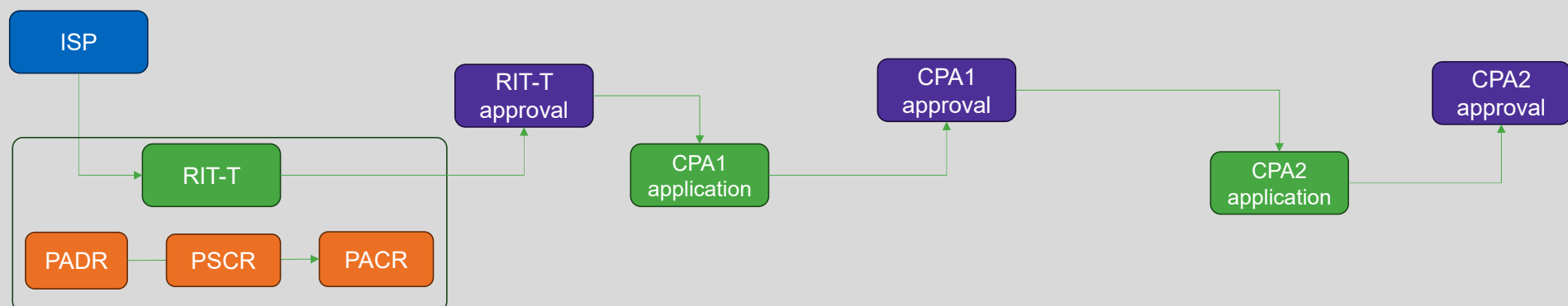


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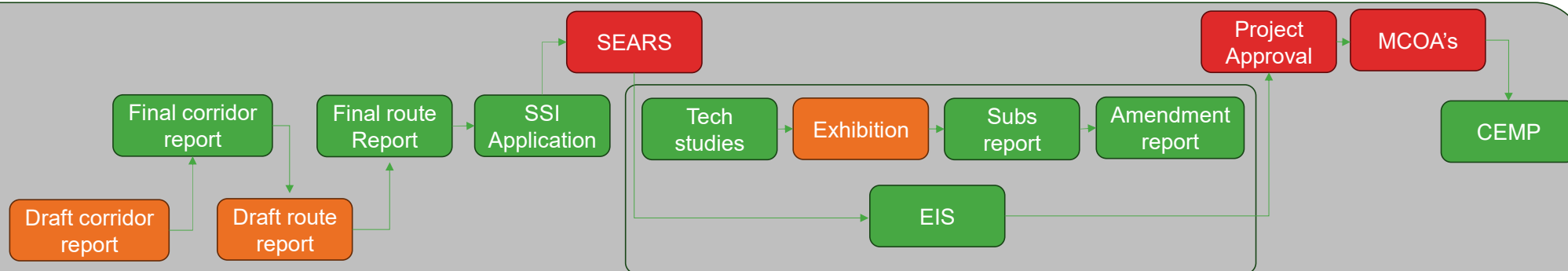


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Planning approval



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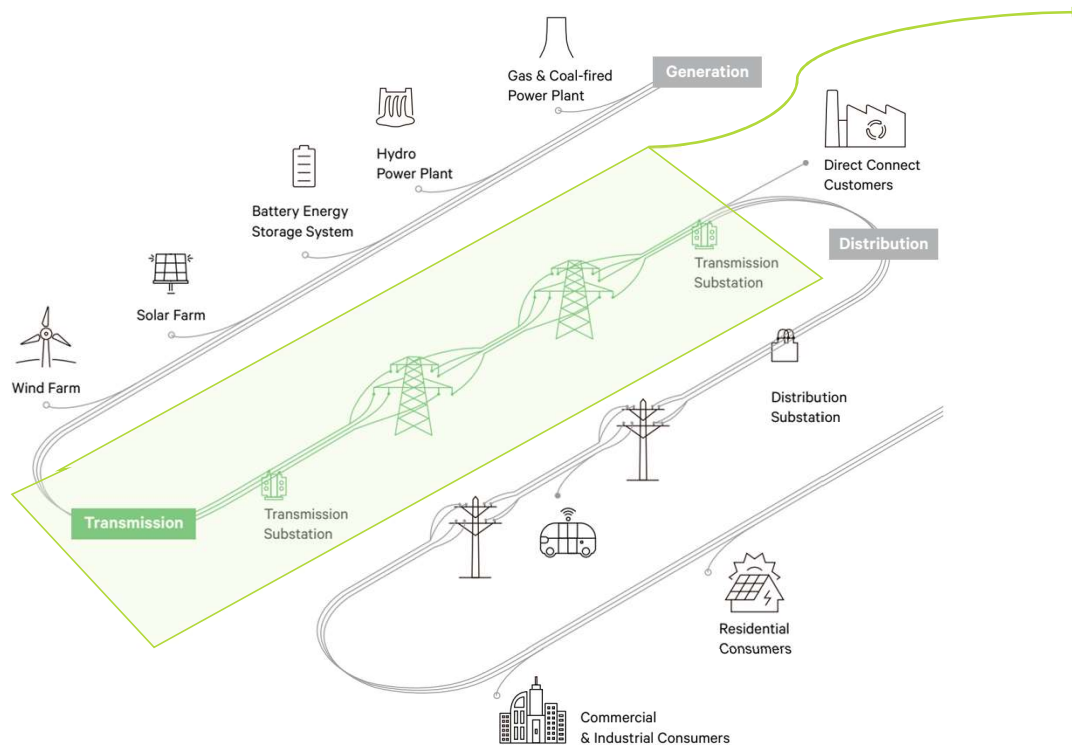
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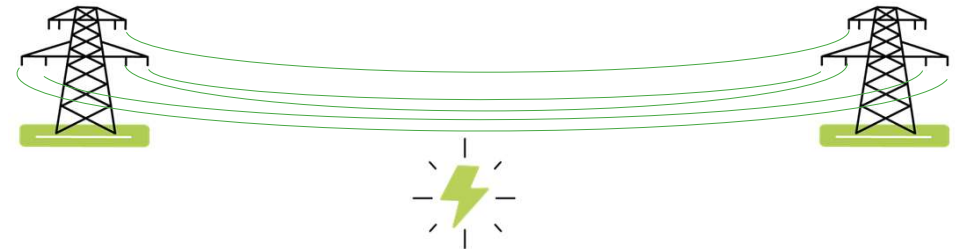
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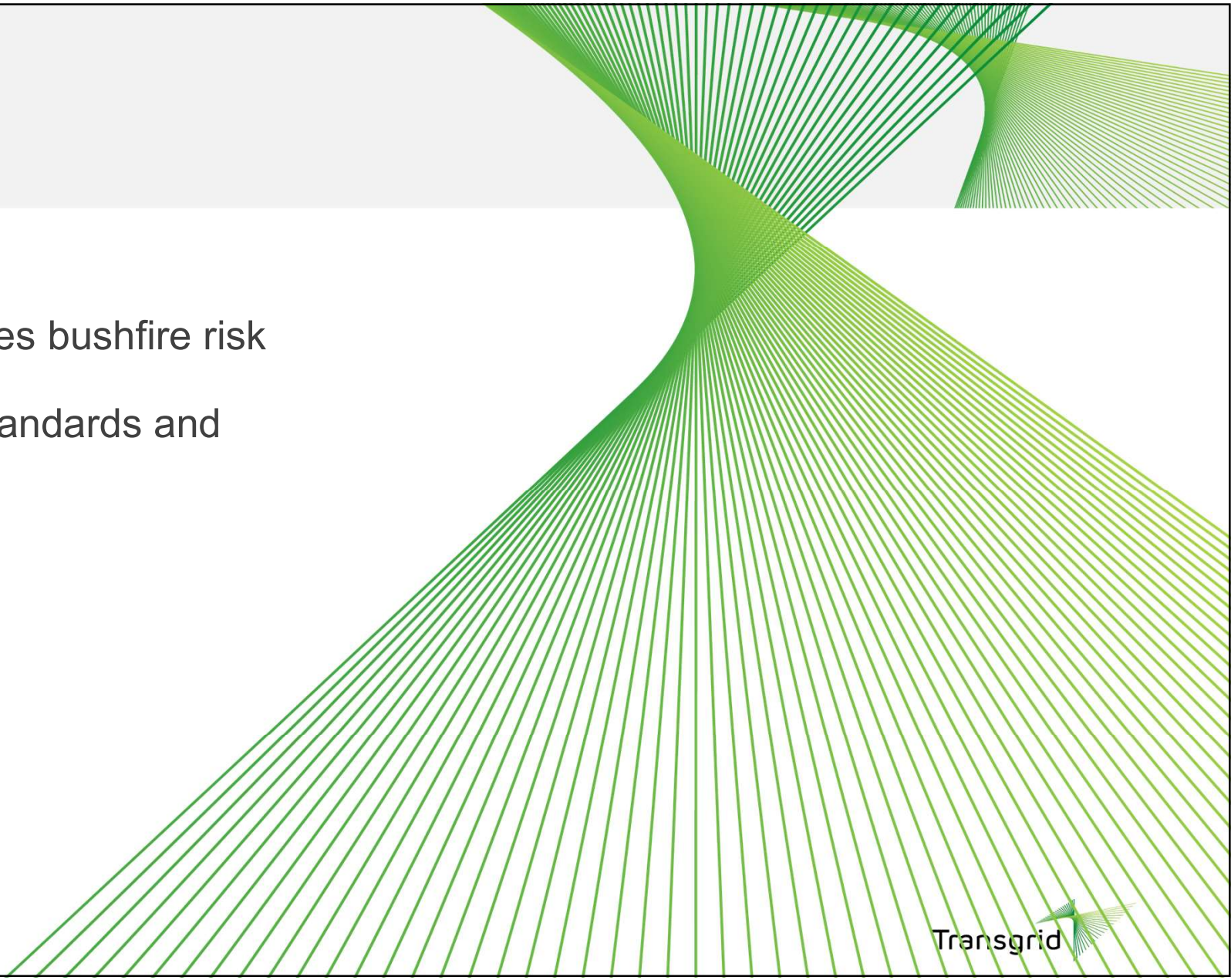
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How Transgrid manages bushfire risk and its assets

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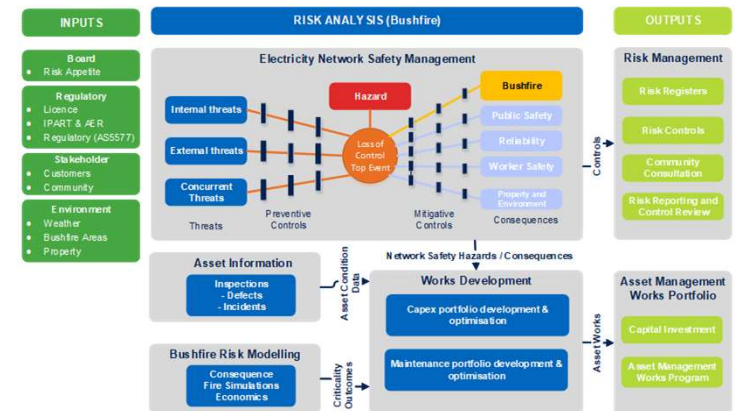
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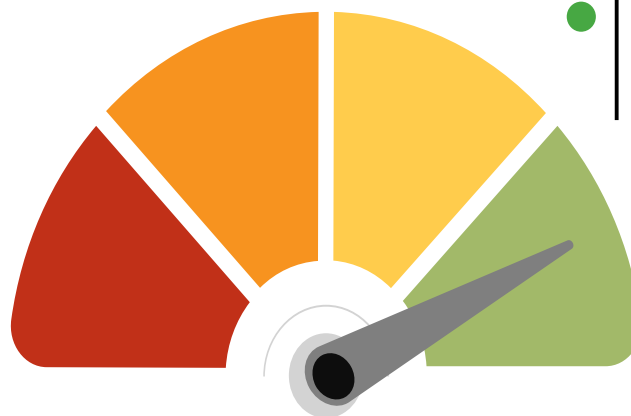
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10:35 – 10:50	Transmission 101 – Q & A	15 mins	Joel Annett, Colin Mayer
10:50– 11:00	The Environmental Assessment process	10 mins	Geoff Hudson, Transgrid
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Review of Meeting 1 minutes and action items

Action items

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Route selection methodology

Jarryd Barton
Principal Environmental Planner, WSP



Route selection process

2023

2024



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Typically between one and 10 kilometres wide



Typically up to around one kilometre wide

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- Engineering
- Land tenure
- Bushfire

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- Ecology
- Heritage
- Land use
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- Land use
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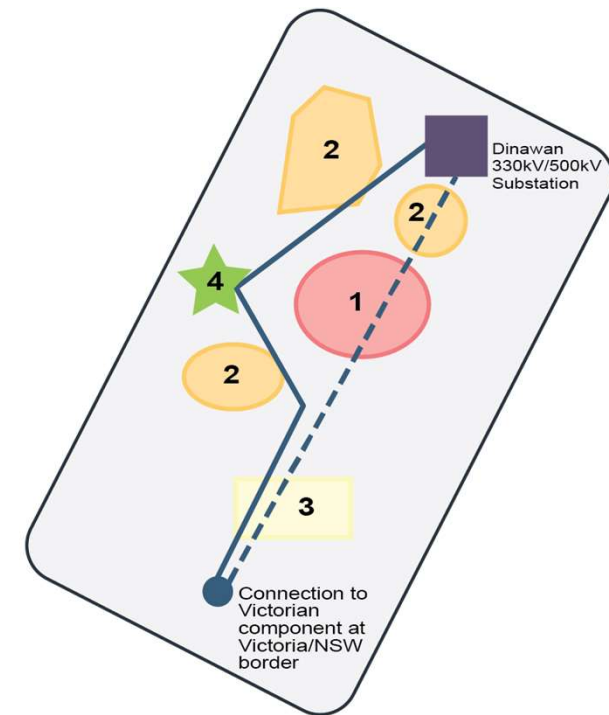
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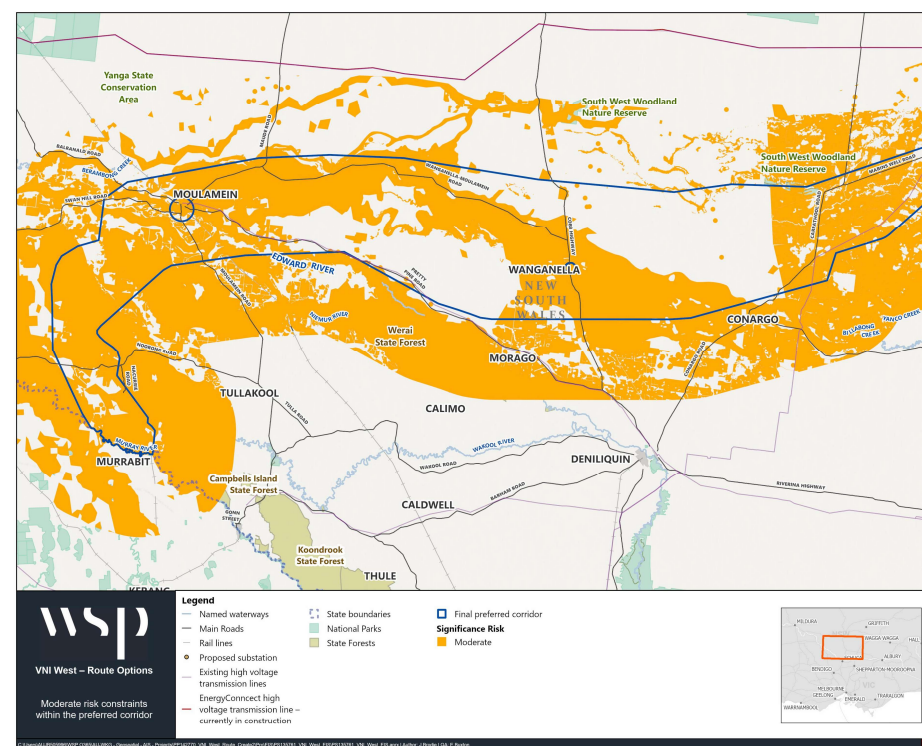
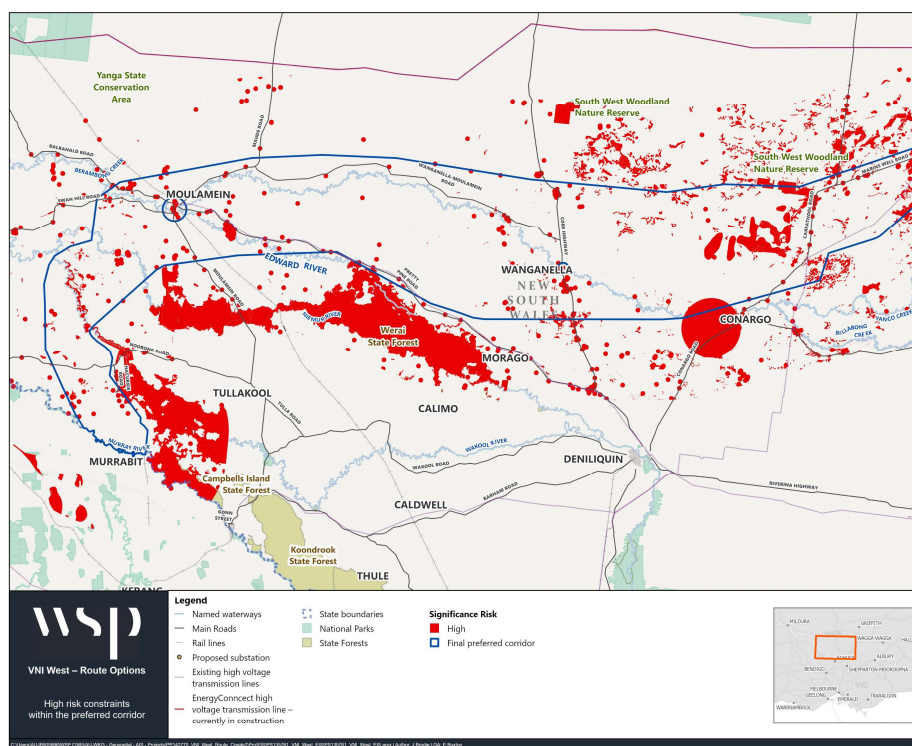
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- Should be considered as a preference for selecting and refining the transmission line corridor



- Feasible corridor, avoiding constraints and utilising opportunities
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Opportunities and constraints mapping



Transmission 101 – Q&A

Joel Annett and Colin Mayer

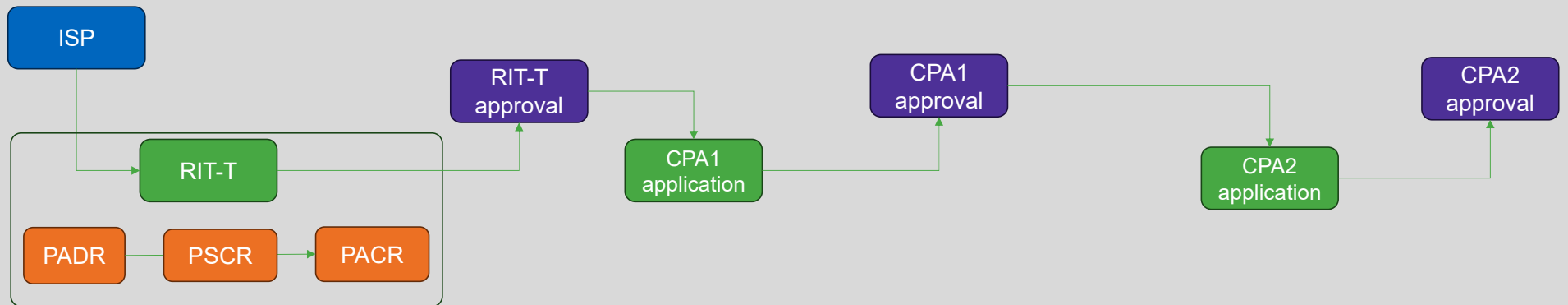


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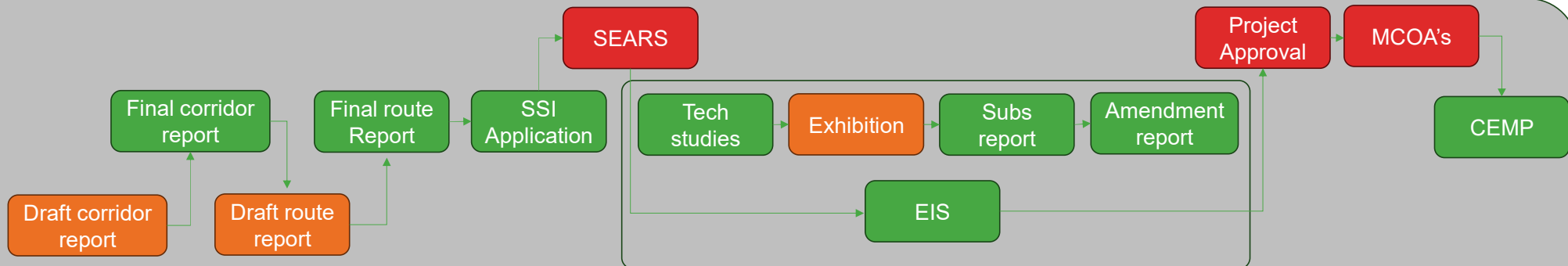


Engagement and approvals process

Regulatory approval



Planning approval



AEMO

AER

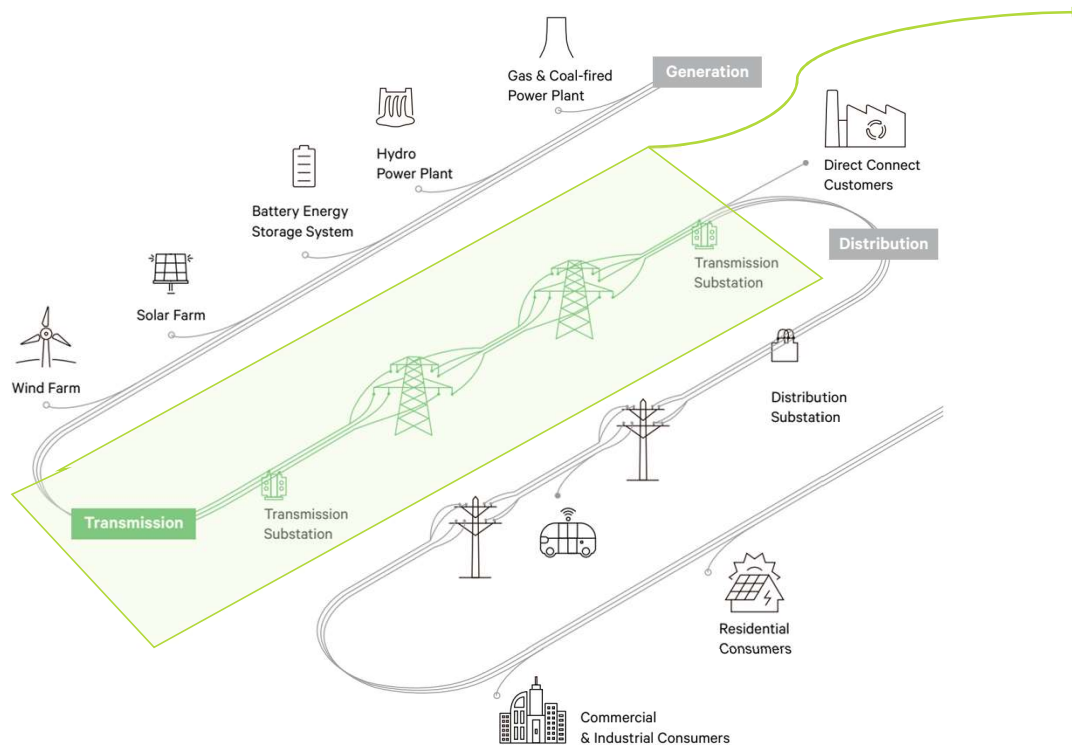
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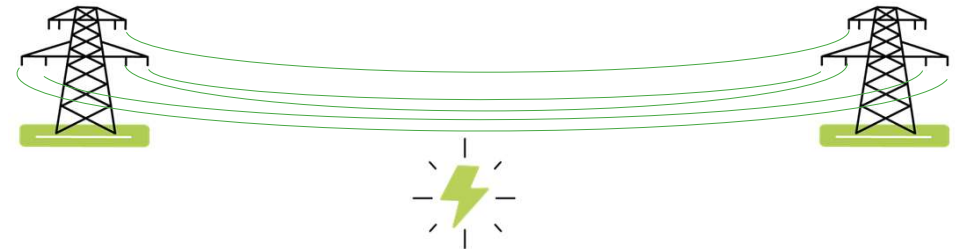
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The Environmental Assessment Process

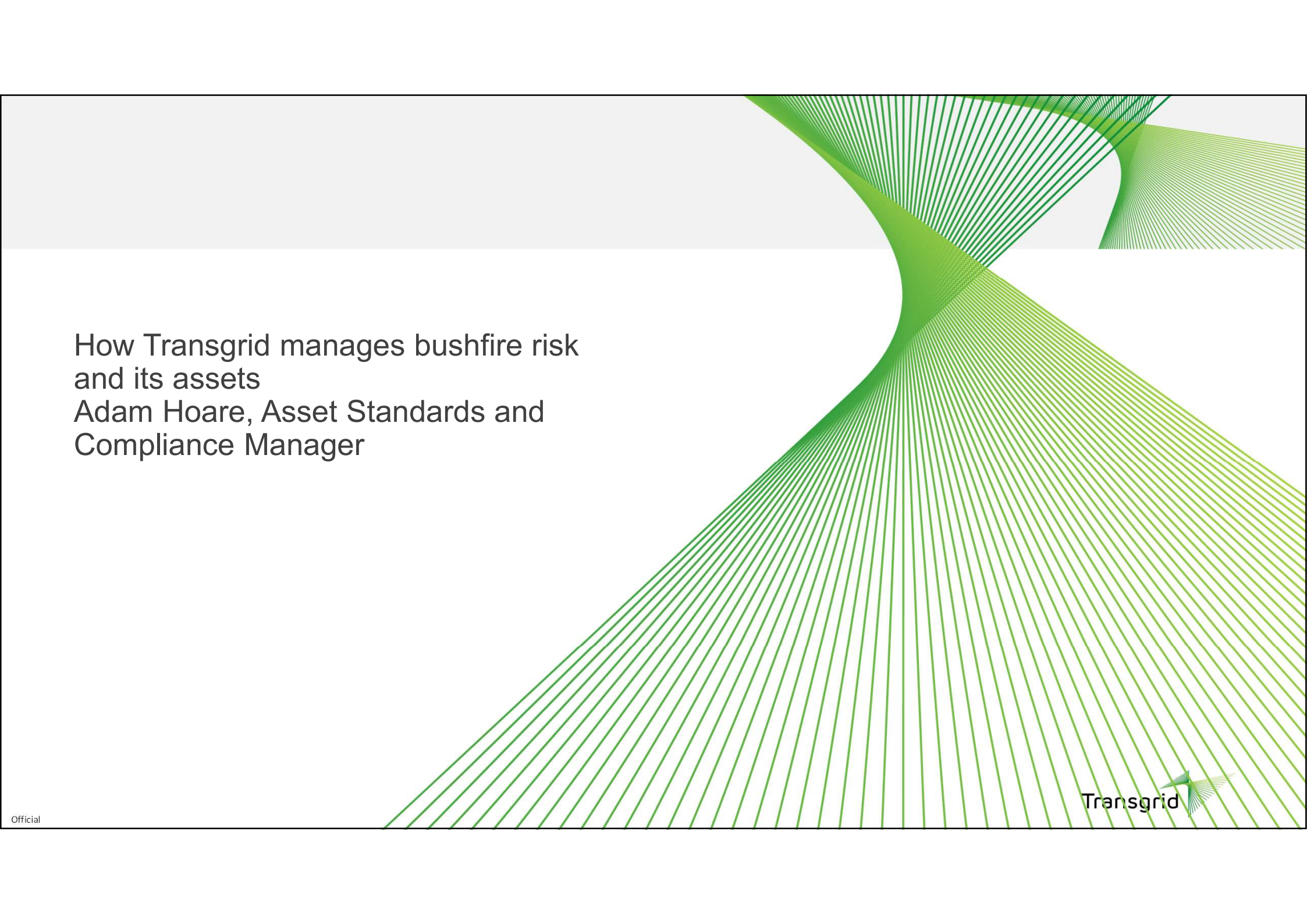
Geoff Hudson, Environment Manager

Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



The background of the slide features a complex, abstract design composed of numerous thin, green lines. These lines originate from various points and converge towards a central, swirling shape, creating a sense of dynamic movement and depth. The lines vary in density, with some areas appearing more solid and others more sparse, contributing to a layered, three-dimensional effect. The overall color palette is a range of greens, from light lime to a deeper forest green.

How Transgrid manages bushfire risk and its assets Adam Hoare, Asset Standards and Compliance Manager

Compliance & Risk Approach

Compliance Instruments

Electricity Supply (Safety and Network Management) Regulation 2014

A network operator must have a safety management system in place that is in accordance with AS 5577; and addresses the **management of bushfire risk** relating to assets capable of initiating a bushfire.

AS 5577 Electricity Network Safety Management

The Standard exists for the support of:

- the **safety of the public**, and persons near or working on the network
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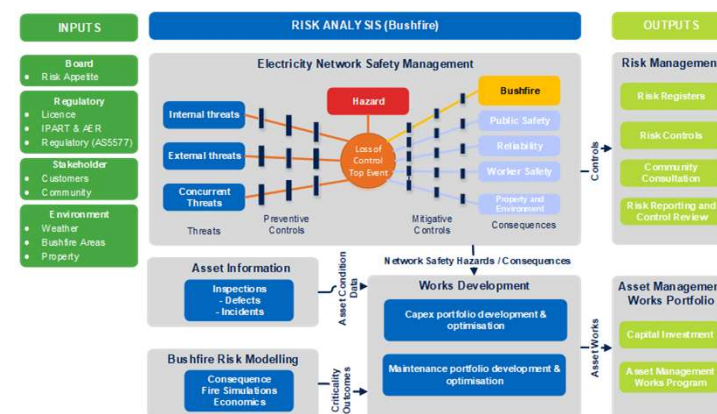
Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
- Incorporates appropriate **oversight and reporting** committees for performance tracking and continuous improvement.
- System effectiveness is frequently assured through internal and external **auditing**.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

Our inspection programs identify high priority asset defects based on failure consequences prior to season commencement to help mitigate bushfire risks, this includes:

1. Vegetation Management

- **Ground easement inspection** and **vegetation management** - ensures clearances to transmission lines are maintained prior to the next maintenance cycle
- Annual **LiDAR inspections** prior to the bushfire season – ensures unexpected growth or intrusions are identified and managed between routine inspections
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Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

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- Projects involve:
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Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

Phoenix bushfire risk models are current and operational.

Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

Insight: Aims to provide a high degree of assurance our assets do not present bushfire risks prior to season commencement.

Detection and monitoring

Network Operations and field crews have adequate situational awareness of emerging fire events.

Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

Emergency Response & Coordination

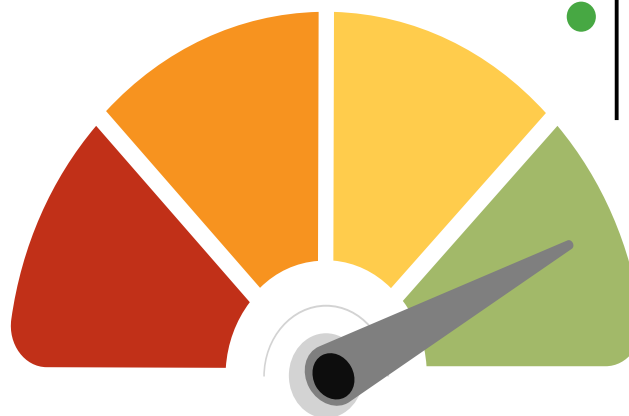
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Internal teams aware and ready to widely communicate commencement of bushfire danger periods.

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Overall Assessment

Working with RFS

Transgrid maintains engagement with external stakeholders and specifically RFS via:

Bushfire Management Committees (BFMC)

Our staff attend BFMC meetings typically as observers and subject matter experts regarding Transmission electricity infrastructure

Disconnection / Safe Access

Our operators coordinate RFS electricity disconnection requests during emergencies, affording safe access for firefighting activities.

Requests are considered against wider network security impacts of taking transmission lines out of service.

RFS ICON

We utilise RFS ICON to provide real-time situational awareness of threats, and access to established local emergency centres.

Agency Coordination

Bi-directional liaison with EUSFAC / emergency services / DNSPs regarding network threats and emergency situational awareness.

EUSFAC are the primary contact point for Transgrid during significant events, who then functionally coordinate with fire agencies.

Liaison Officers (LOs)

During fire emergencies our staff are often deployed to act as LOs during bushfires. They coordinate information regarding asset criticality, impacted infrastructure, and assist Transgrid field staff arrange fire ground access.

Regular Engagements

- Annual summer preparedness meetings with EUSFAC & RFS
- Quarterly EUSFAC sub-committee meetings



**Energy and Utility
Services Functional Area
(EUSFA)**



Community Benefits

Joel Annett, Community and
Stakeholder Manager



Community Investment Program

Ensure impacted communities receive substantial benefits that adequately address social legacy expectations.

As part of VNI West Transgrid will make an investment in the local community.

CCG will play a role in guiding Transgrid on how to engage with the community to identify the opportunities.

Our Process

1. Engage and consult with the relevant internal and external stakeholders
2. Identify the need and the expected outcomes
3. Evaluate the different opportunities and streams
4. Engage with potential implementing partners

Healthcare
Telecommunications
Education
Research
Resilience

NEXT STEPS

Community engagement
Joel Annett, Community and
Stakeholder Manager
Nathan Menser, Community and
Stakeholder Lead



Engaging on the Draft Route Report

Publish Draft Route Report
29 Jan 2024

Engage and seek feedback

Publish Preferred Route
Report - March 2024

Monday	Tuesday	Wednesday	Thursday	Friday
29 Jan Draft Route Report	30 Jan “Opportunity week”	31 Jan CCG # 3	1 Feb	2 Feb
5 Feb	6 Feb Drop ins Jerilderie Conargo	7 Feb Drop ins Wanganella Moulamein – Town Hall	8 Feb Drop ins Deniliquin – Town Hall Barham	9 Feb Drop in Moulamein
12 Feb	13 Feb Drop in Moulamein	14 Feb Drop in Deniliquin	15 Feb Drop ins Wanganella Conargo	16 Feb
19 Feb “Stakeholder Week”	20 Feb	21 Feb	22 Feb	23 Feb
26 Feb	27 Feb Drop in Barham	28 Feb Drop in Moulamein	29 Feb	1 Mar – 3 Mar Events Deniliquin Show Jerilderie Fun Fair

This table is provided as draft for discussion purposes and remains subject to change. Transgrid is in discussions with local venues regarding availability.

Meeting close

Thank you for your time

1800 222 537

vniw@transgrid.com.au

www.transgrid.com.au/vniw



VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



Agenda

Time	Agenda item	Time allocated	Presenter
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Principal Environmental Planner, WSP



Route selection process

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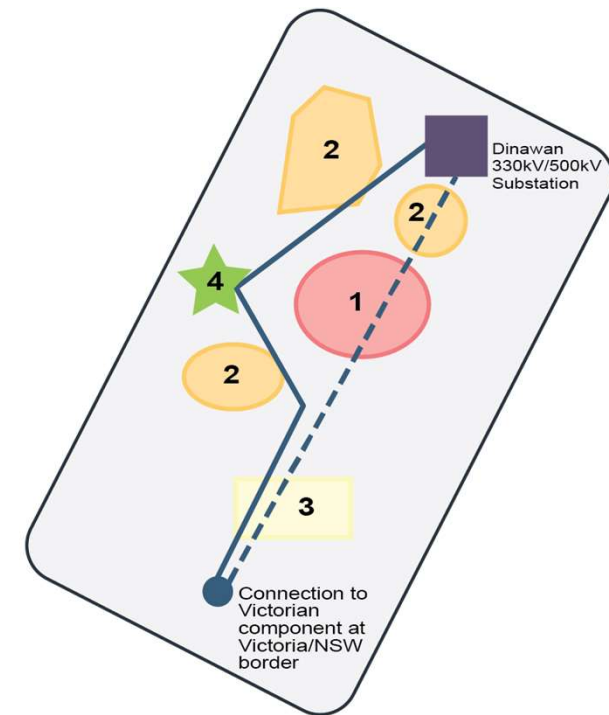
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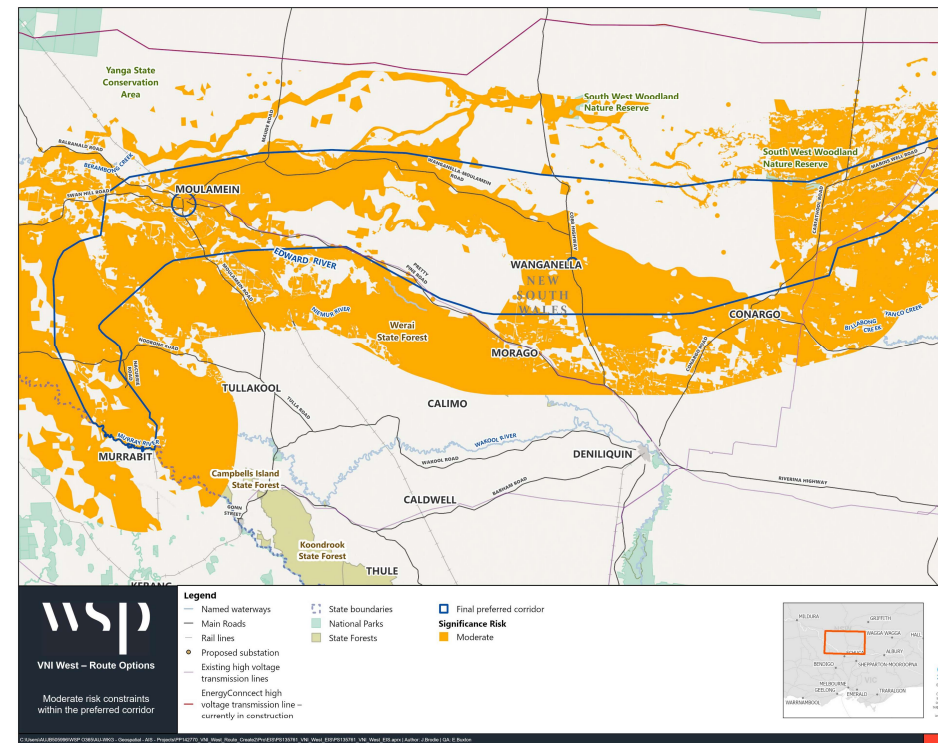
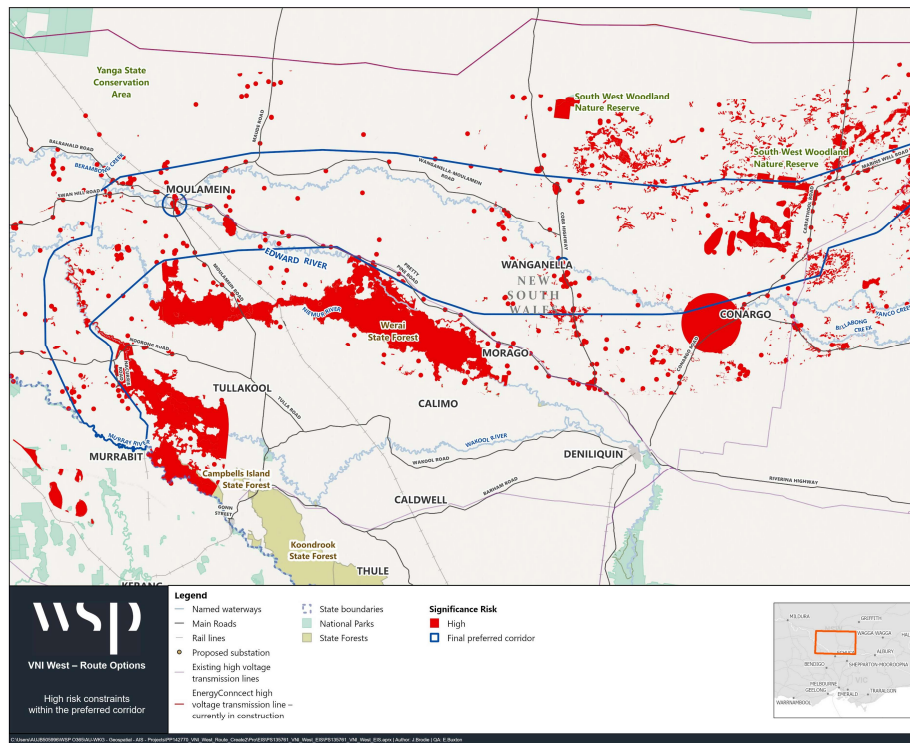
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Opportunities and constraints mapping



Transmission 101 – Q&A

Joel Annett and Colin Mayer

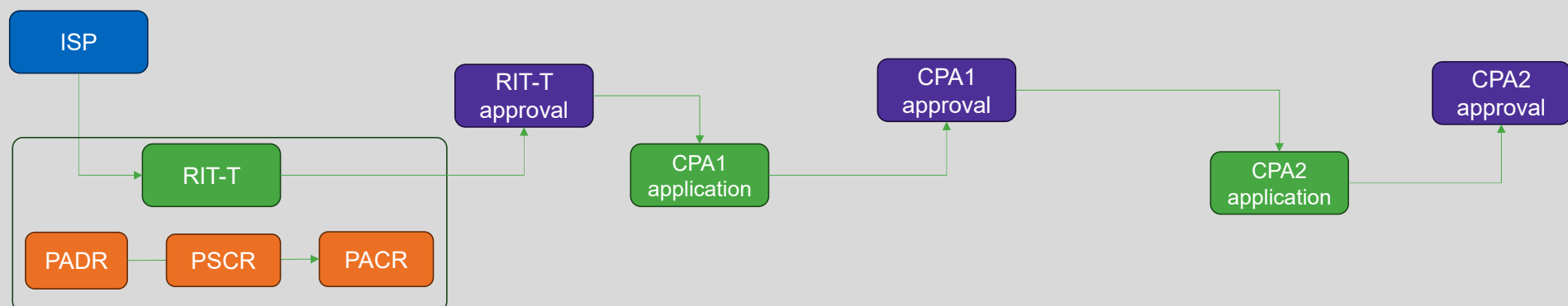


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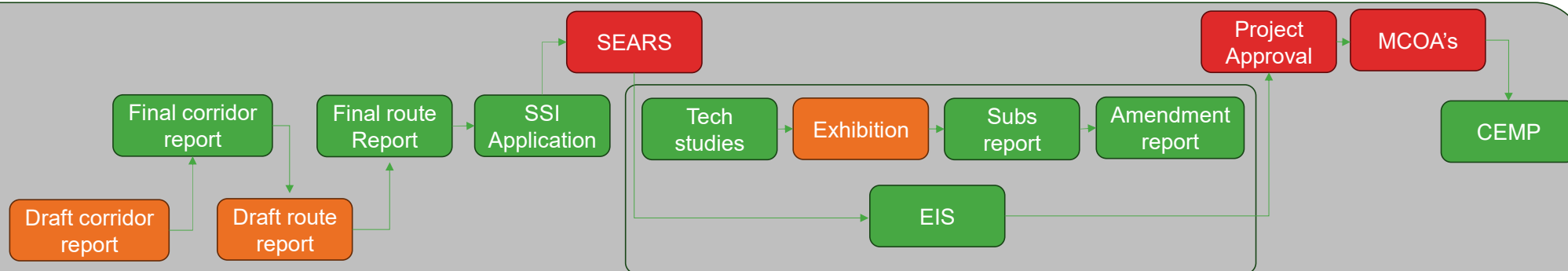


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Regulatory approval



Planning approval



AEMO

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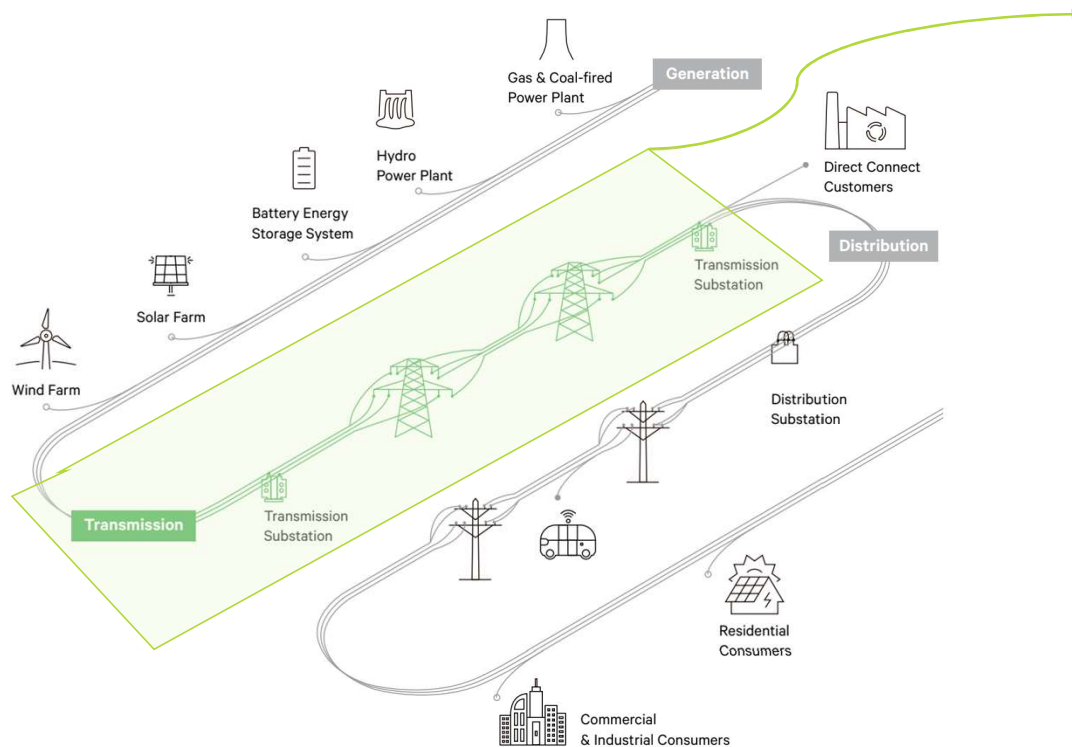
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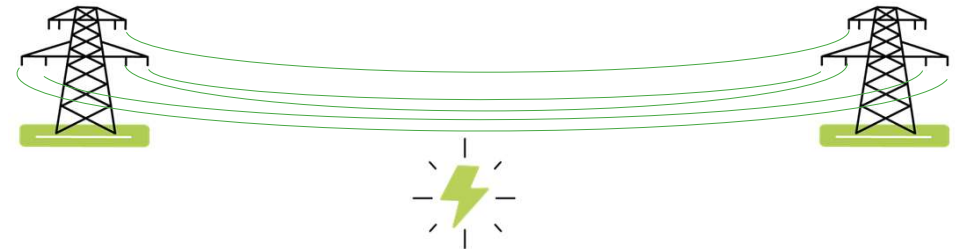
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The Environmental Assessment Process

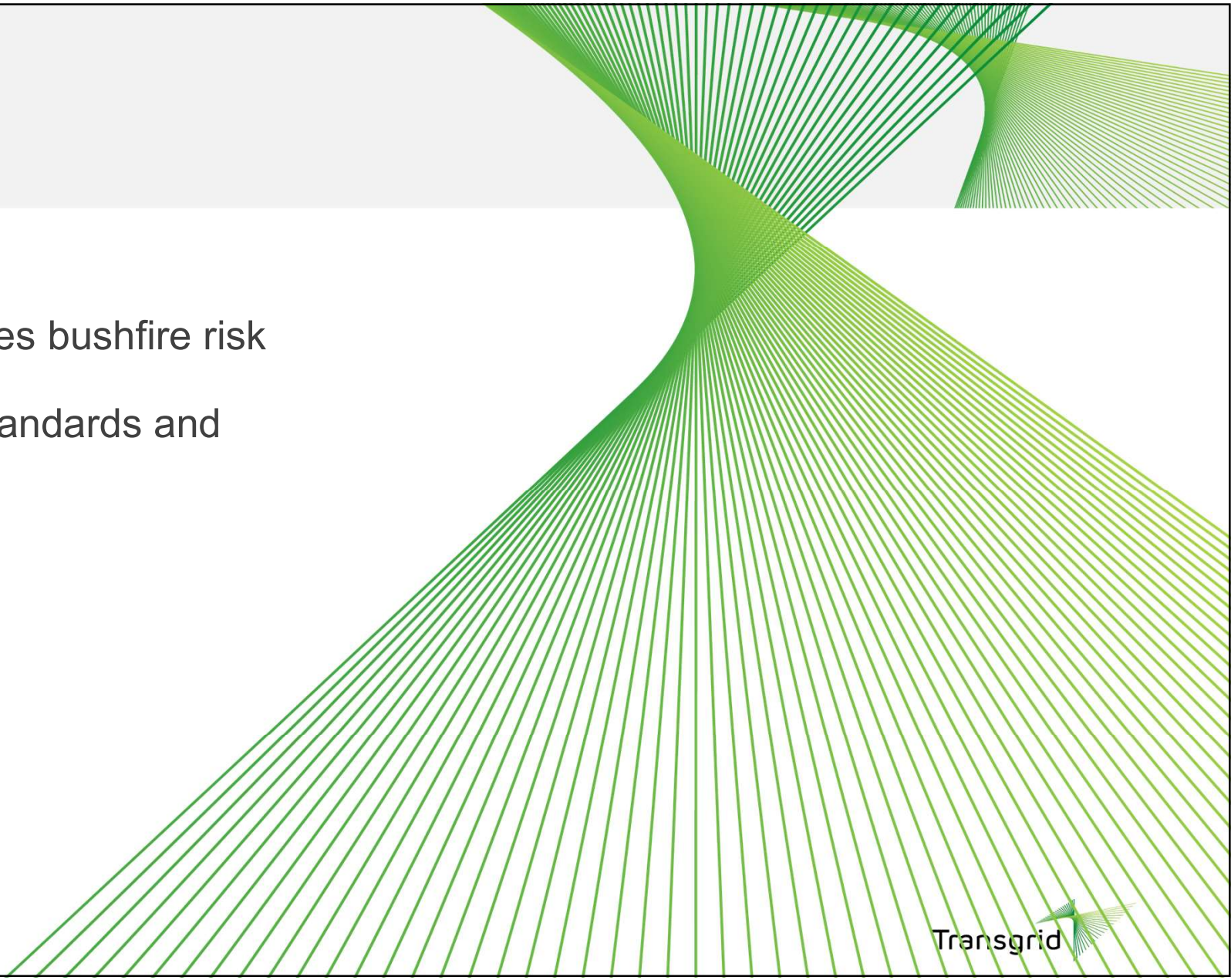
Geoff Hudson, Environment Manager

Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
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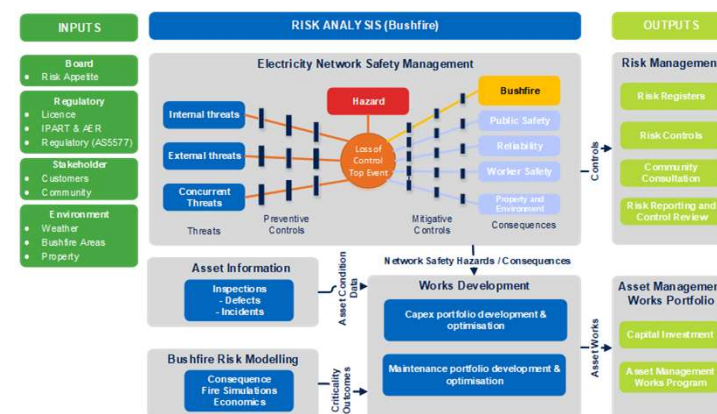
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Risk Approach



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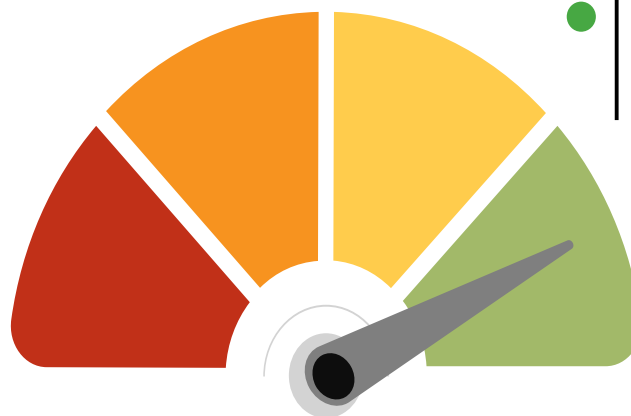
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**Energy and Utility
Services Functional Area
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Thank you for your time

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

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We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



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Route selection methodology

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Route selection process

2023

2024



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- Hydrology and groundwater
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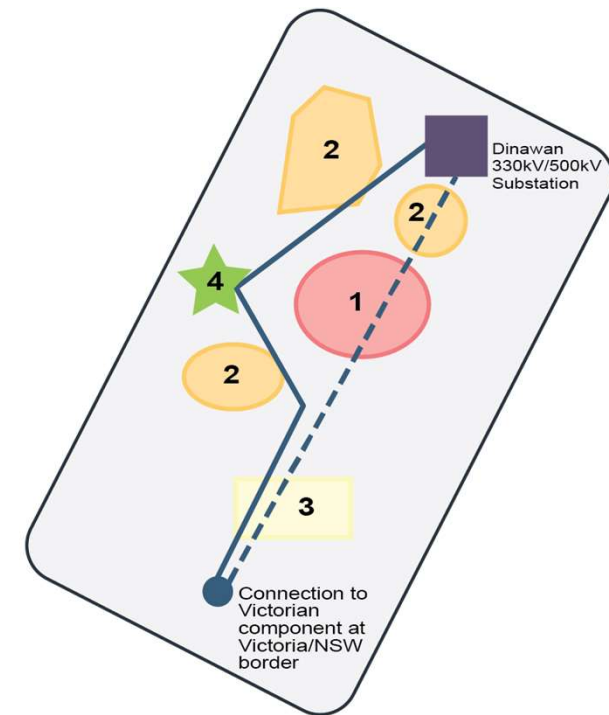
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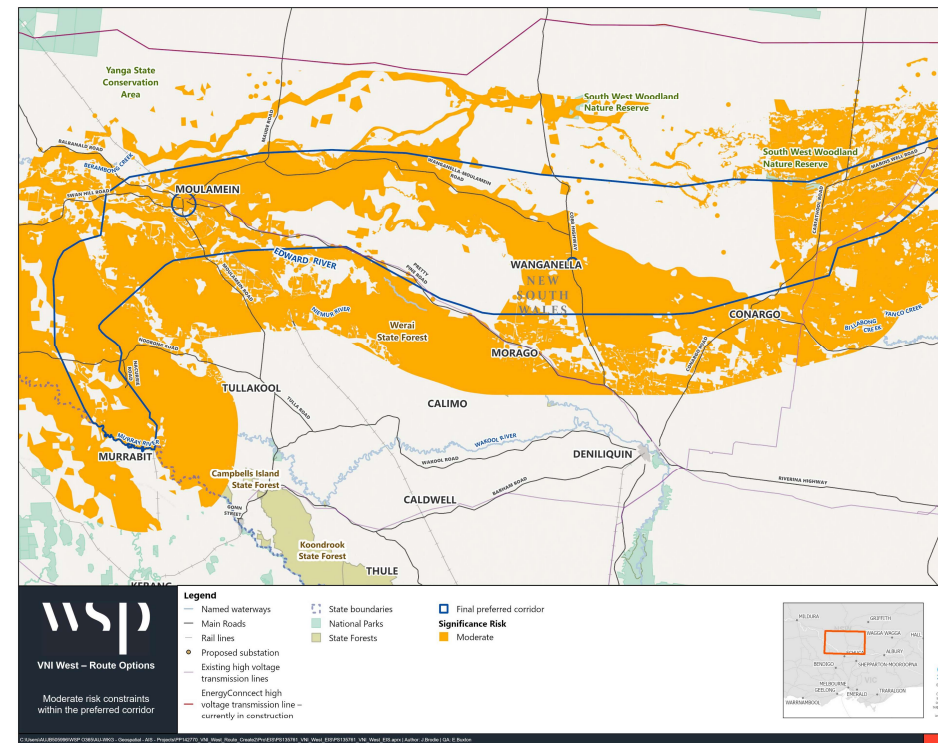
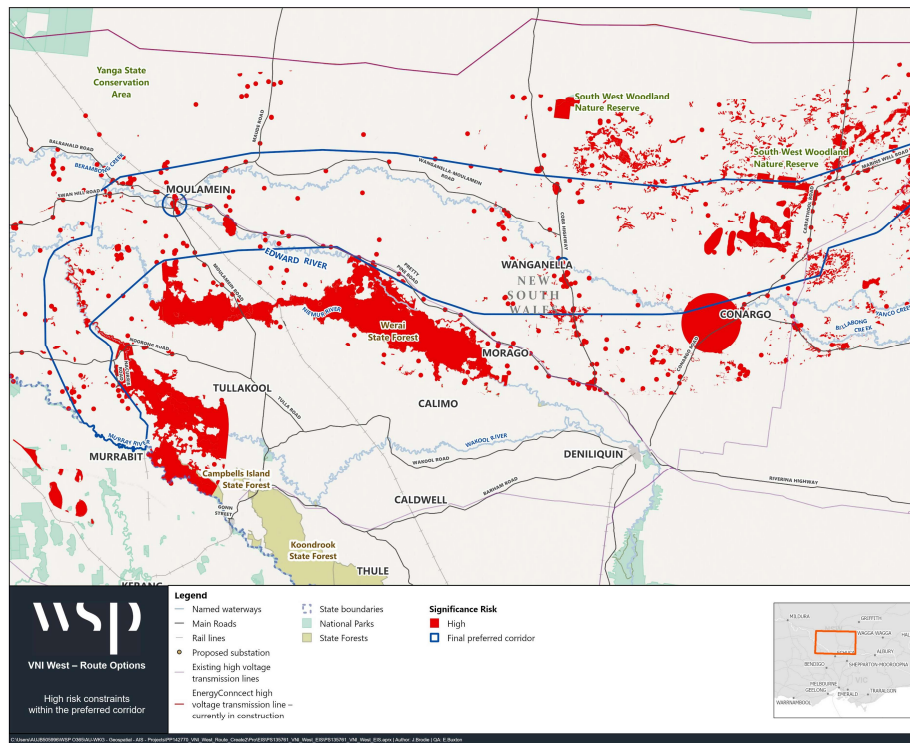
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Opportunities and constraints mapping



Transmission 101 – Q&A

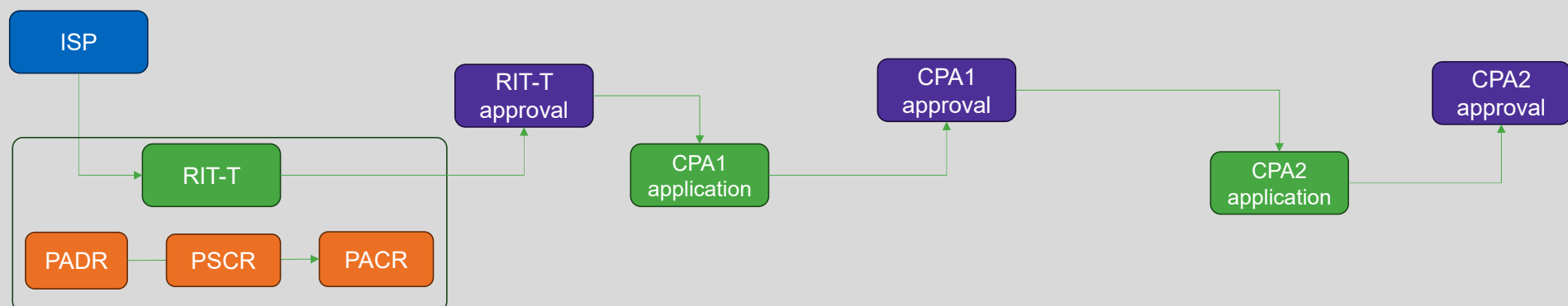
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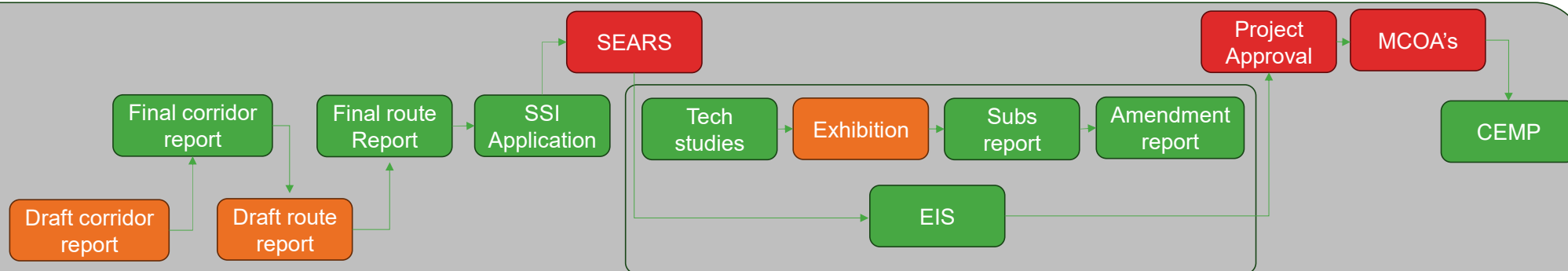


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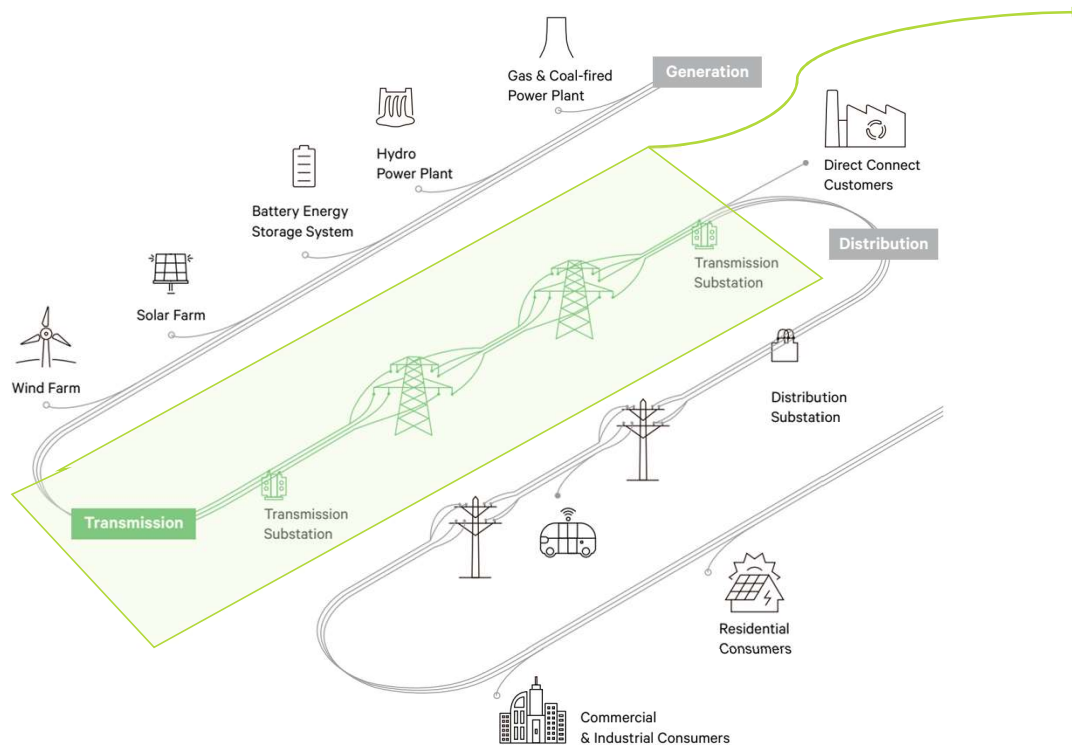
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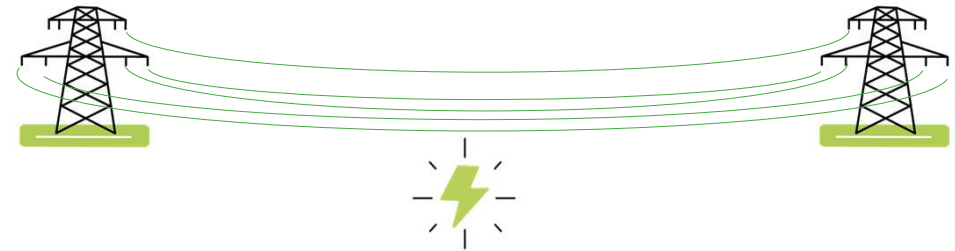
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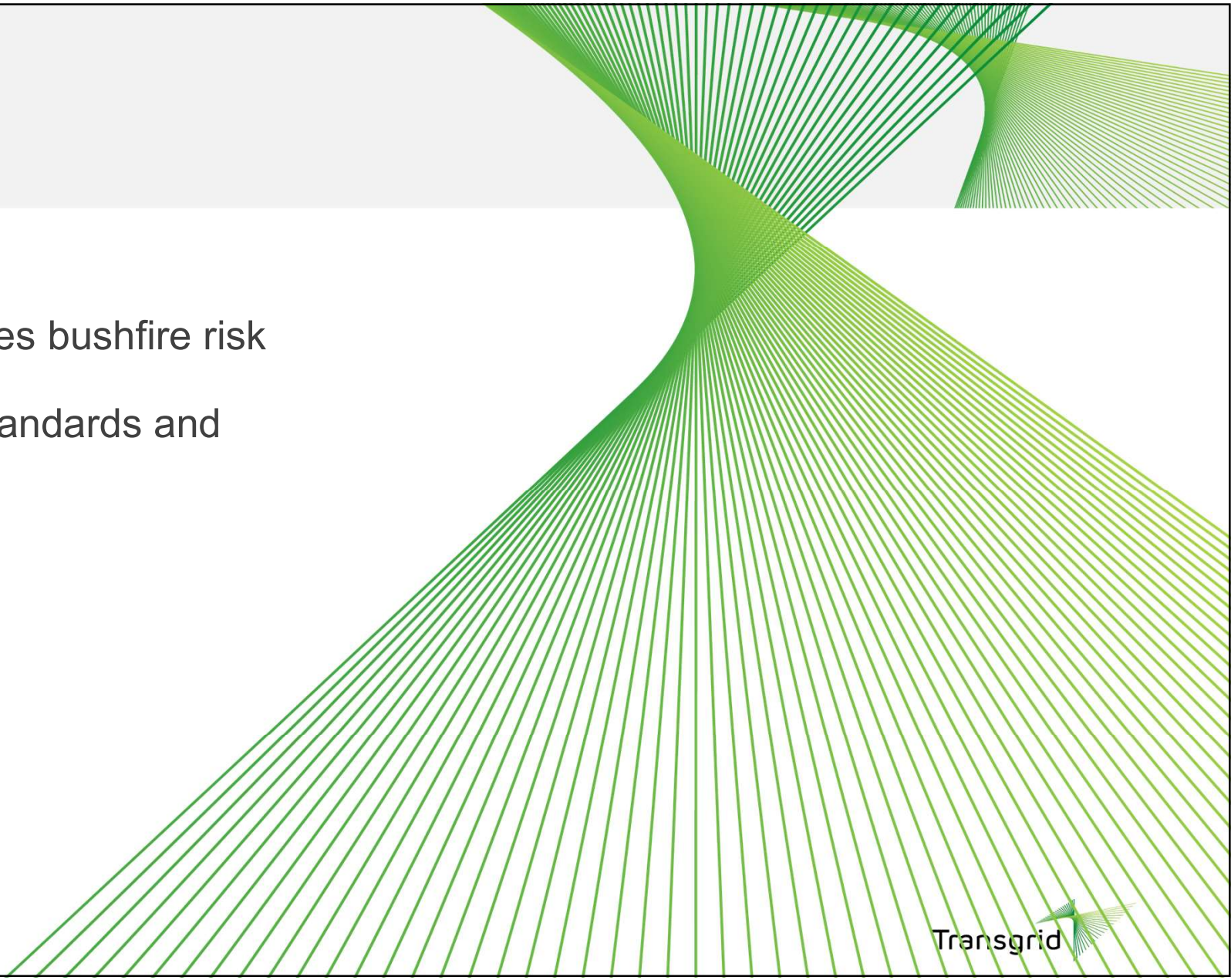
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Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



An abstract graphic composed of numerous thin, green lines that originate from a central point and fan outwards, creating a sense of movement and depth. The lines are arranged in a way that they appear to be part of a larger, curved structure, possibly representing a stylized 'S' or a series of overlapping planes. The background is a light gray, and the overall composition is clean and modern.

How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
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Compliance & Risk Approach

Compliance Instruments

Electricity Supply (Safety and Network Management) Regulation 2014

A network operator must have a safety management system in place that is in accordance with AS 5577; and addresses the **management of bushfire risk** relating to assets capable of initiating a bushfire.

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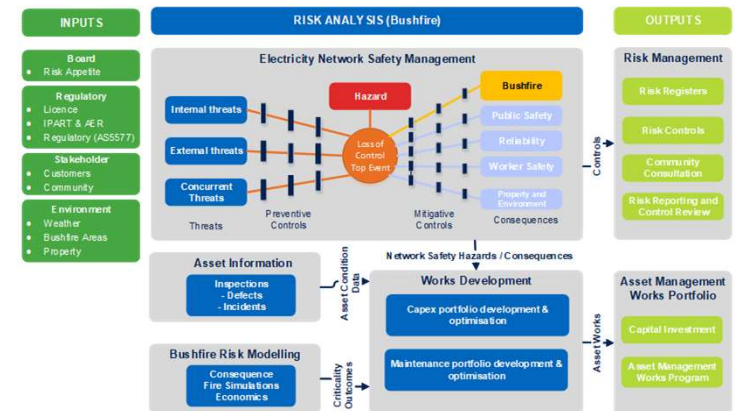
Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
- Incorporates appropriate **oversight and reporting** committees for performance tracking and continuous improvement.
- System effectiveness is frequently assured through internal and external **auditing**.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

Our inspection programs identify high priority asset defects based on failure consequences prior to season commencement to help mitigate bushfire risks, this includes:

1. Vegetation Management

- **Ground easement inspection** and **vegetation management** - ensures clearances to transmission lines are maintained prior to the next maintenance cycle
- Annual **LiDAR inspections** prior to the bushfire season – ensures unexpected growth or intrusions are identified and managed between routine inspections
- **Off easement hazard tree** management is prioritised based on quantified bushfire risk.

2. Transmission Lines

- Annual **aerial helicopter inspections** of network completed prior to bushfire season.
- Annual **ground-based inspection** of the transmission line structures with the highest potential bushfire risk.
- Routine maintenance inspection tasks to **detect defects and assess condition** that helps identify longer-term condition-related deterioration of assets.



Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

- Scope and prioritisation is based on **asset condition and relative bushfire and public safety risk** at each location on the network
- Projects involve:
 - Targeted replacement/refurbishment of corroded fittings, insulators, steelwork, foundation, and conductor.
 - Targeted wood pole replacement with concrete/steel pole due to decay or termite damage.



Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

Phoenix bushfire risk models are current and operational.

Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

Insight: Aims to provide a high degree of assurance our assets do not present bushfire risks prior to season commencement.

Detection and monitoring

Network Operations and field crews have adequate situational awareness of emerging fire events.

Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

Emergency Response & Coordination

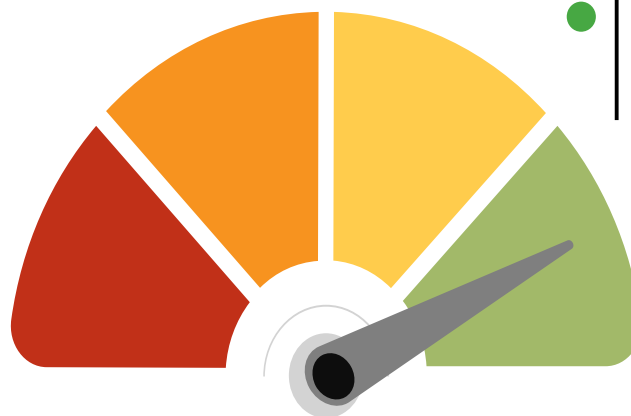
Emergency and Crisis Management teams are continually trained and exercised a major escalating bushfire scenario in May-23. Relevant stakeholders are actively involved in emergency service and industry coordination forums.

Insight: Business is trained and ready to respond to a developing emergency bushfire situation.

Internal communications

Internal teams aware and ready to widely communicate commencement of bushfire danger periods.

Insight: Provides broad situational awareness to all staff.



Overall Assessment

Working with RFS

Transgrid maintains engagement with external stakeholders and specifically RFS via:

Bushfire Management Committees (BFMC)

Our staff attend BFMC meetings typically as observers and subject matter experts regarding Transmission electricity infrastructure

Disconnection / Safe Access

Our operators coordinate RFS electricity disconnection requests during emergencies, affording safe access for firefighting activities.

Requests are considered against wider network security impacts of taking transmission lines out of service.

RFS ICON

We utilise RFS ICON to provide real-time situational awareness of threats, and access to established local emergency centres.

Agency Coordination

Bi-directional liaison with EUSFAC / emergency services / DNSPs regarding network threats and emergency situational awareness.

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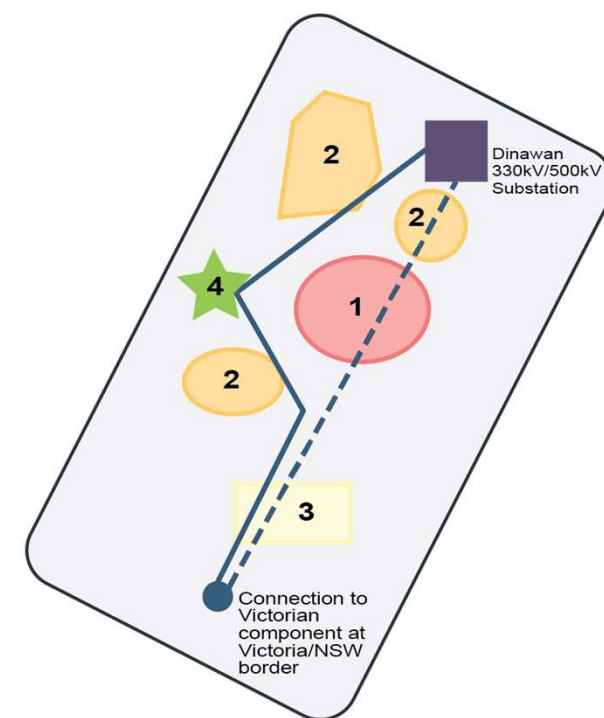
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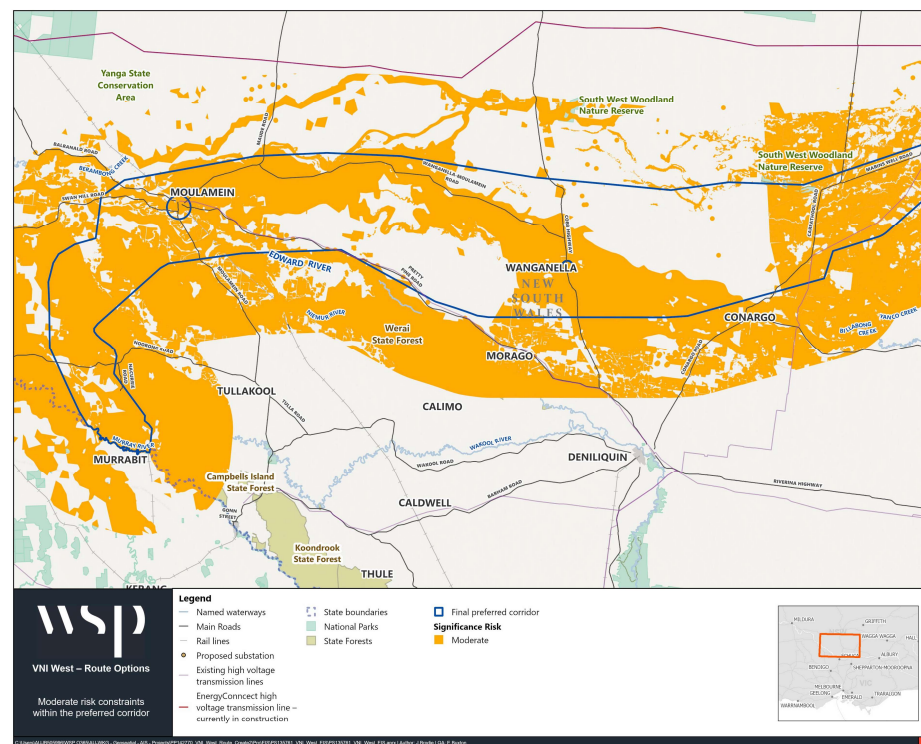
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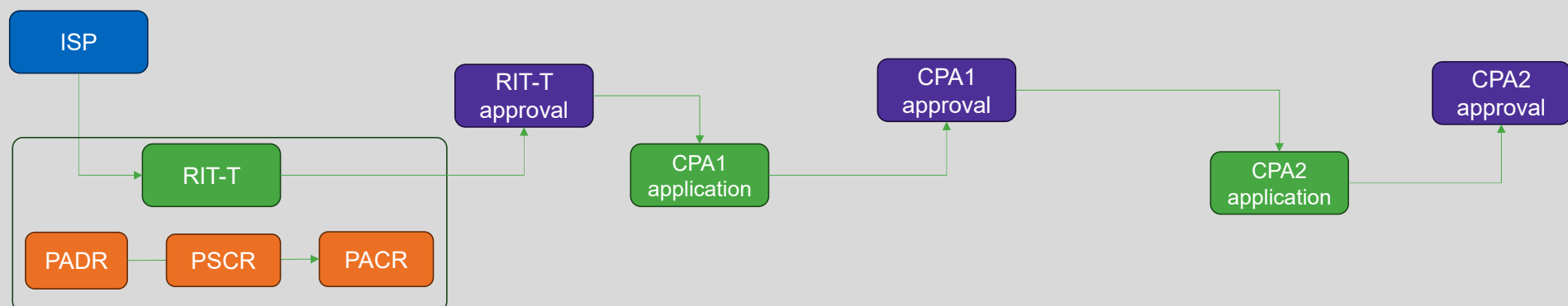
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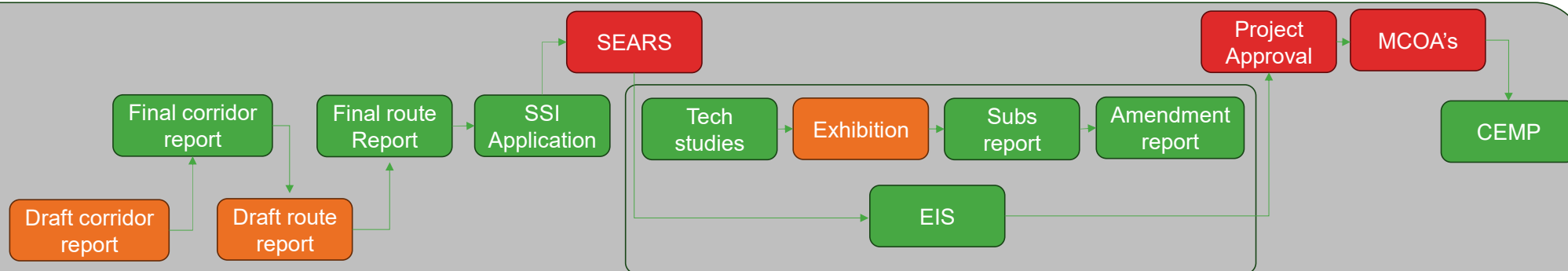


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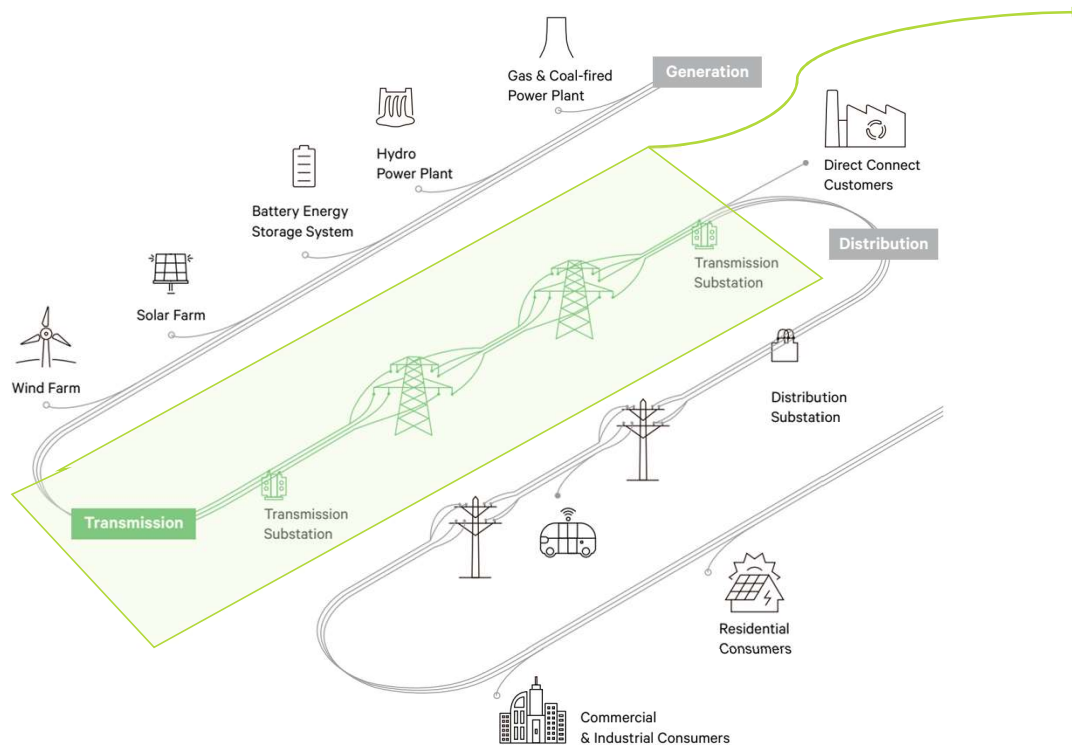
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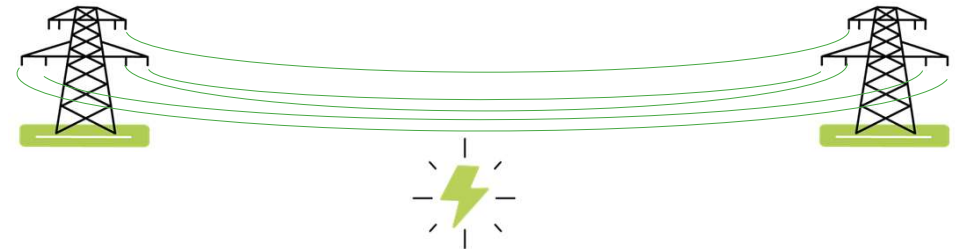
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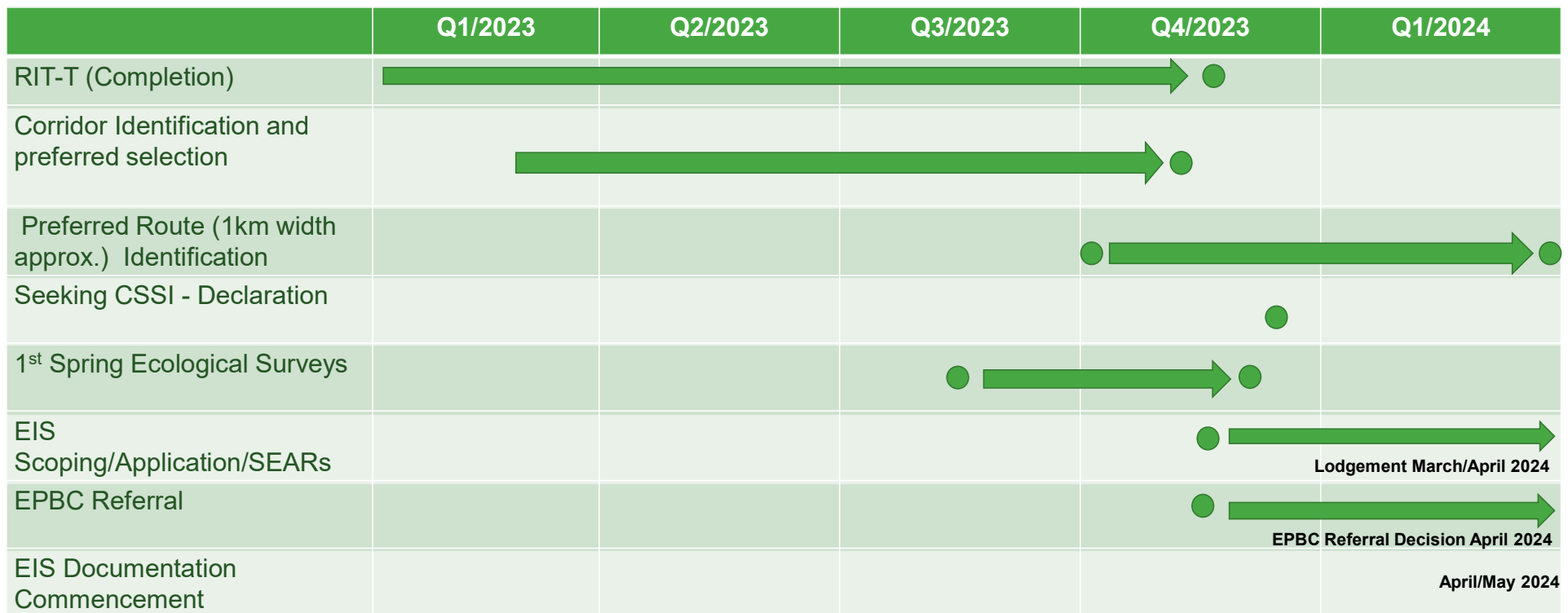
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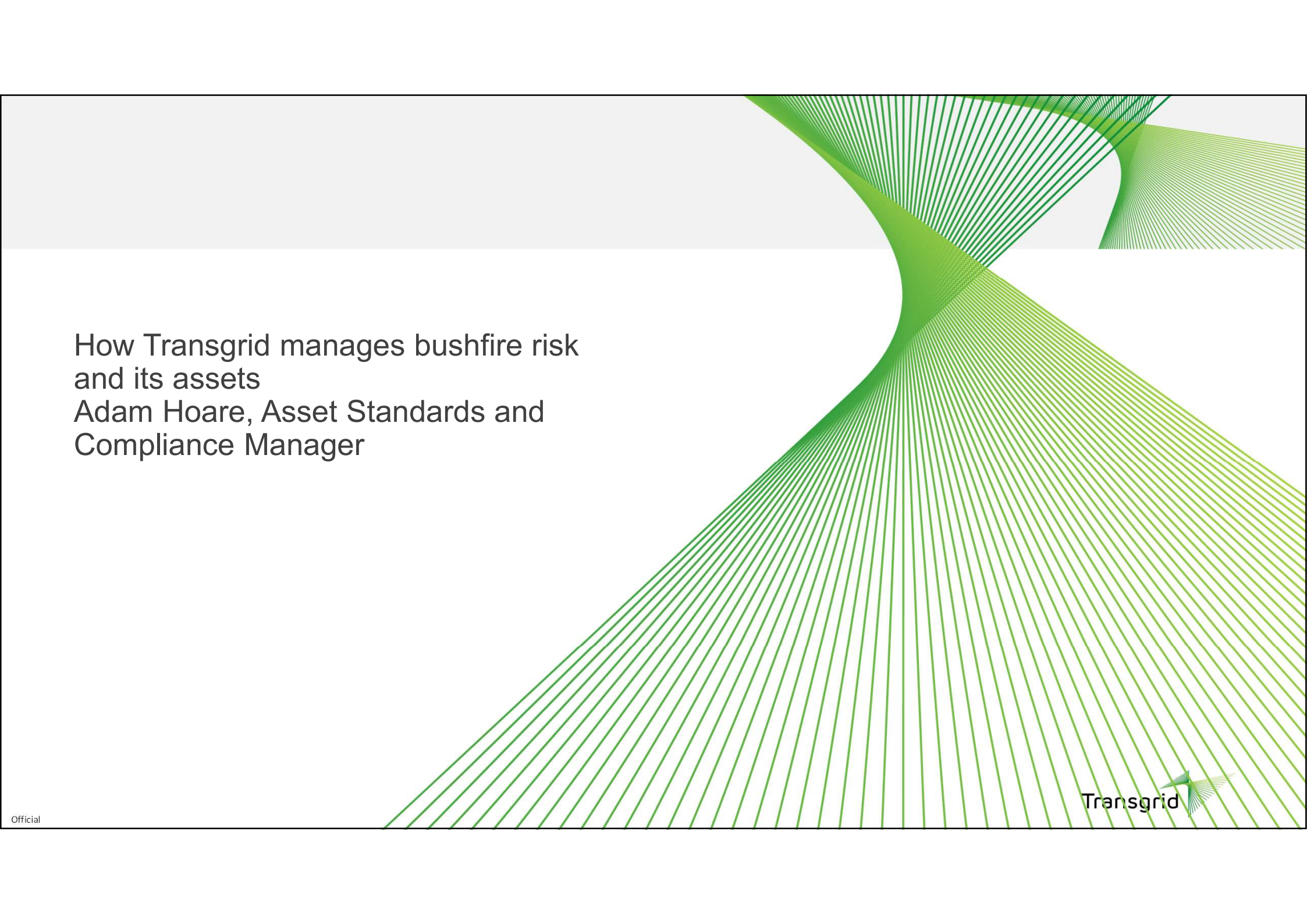
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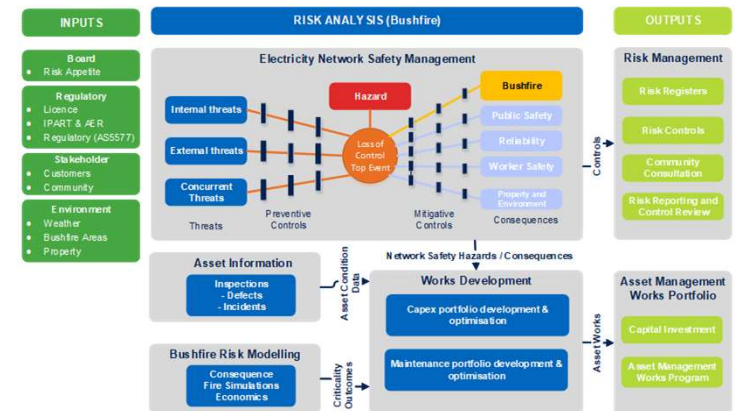
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Risk Approach



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- Routine maintenance inspection tasks to **detect defects and assess condition** that helps identify longer-term condition-related deterioration of assets.



Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

- Scope and prioritisation is based on **asset condition and relative bushfire and public safety risk** at each location on the network
- Projects involve:
 - Targeted replacement/refurbishment of corroded fittings, insulators, steelwork, foundation, and conductor.
 - Targeted wood pole replacement with concrete/steel pole due to decay or termite damage.



Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

Phoenix bushfire risk models are current and operational.

Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

Insight: Aims to provide a high degree of assurance our assets do not present bushfire risks prior to season commencement.

Detection and monitoring

Network Operations and field crews have adequate situational awareness of emerging fire events.

Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

Emergency Response & Coordination

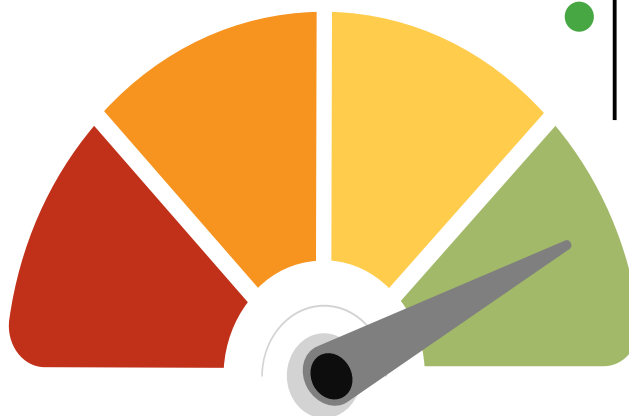
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Internal teams aware and ready to widely communicate commencement of bushfire danger periods.

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Overall Assessment

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Transgrid maintains engagement with external stakeholders and specifically RFS via:

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Our staff attend BFMC meetings typically as observers and subject matter experts regarding Transmission electricity infrastructure

Disconnection / Safe Access

Our operators coordinate RFS electricity disconnection requests during emergencies, affording safe access for firefighting activities.

Requests are considered against wider network security impacts of taking transmission lines out of service.

RFS ICON

We utilise RFS ICON to provide real-time situational awareness of threats, and access to established local emergency centres.

Agency Coordination

Bi-directional liaison with EUSFAC / emergency services / DNSPs regarding network threats and emergency situational awareness.

EUSFAC are the primary contact point for Transgrid during significant events, who then functionally coordinate with fire agencies.

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- Quarterly EUSFAC sub-committee meetings



**Energy and Utility
Services Functional Area
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Community Benefits

Joel Annett, Community and
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Community Investment Program

Ensure impacted communities receive substantial benefits that adequately address social legacy expectations.

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Healthcare
Telecommunications
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Thank you for your time

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



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Route selection methodology

Jarryd Barton
Principal Environmental Planner, WSP



Route selection process

2023

2024



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Typically between one and 10 kilometres wide



Typically up to around one kilometre wide

Typically up to 200 metres wide (with the potential for wider area(s) up to one or more kilometres wide where further investigation may be required)

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Social / community

- Land use
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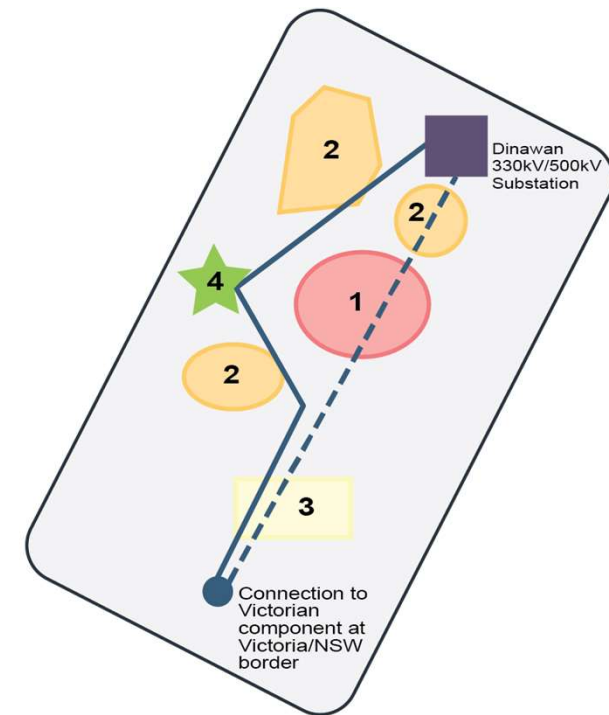
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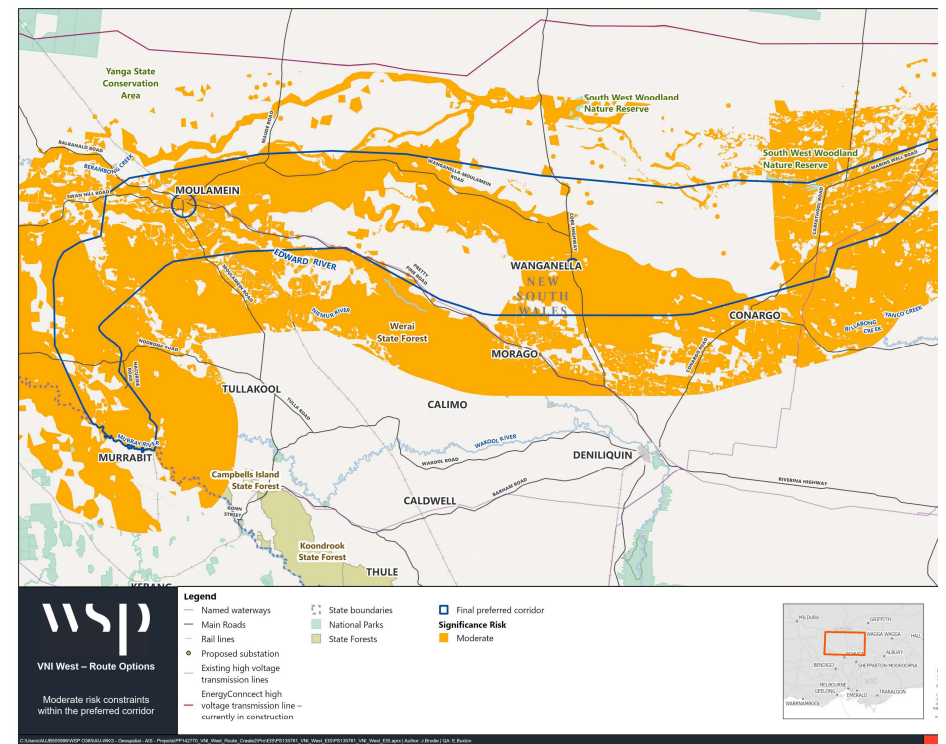
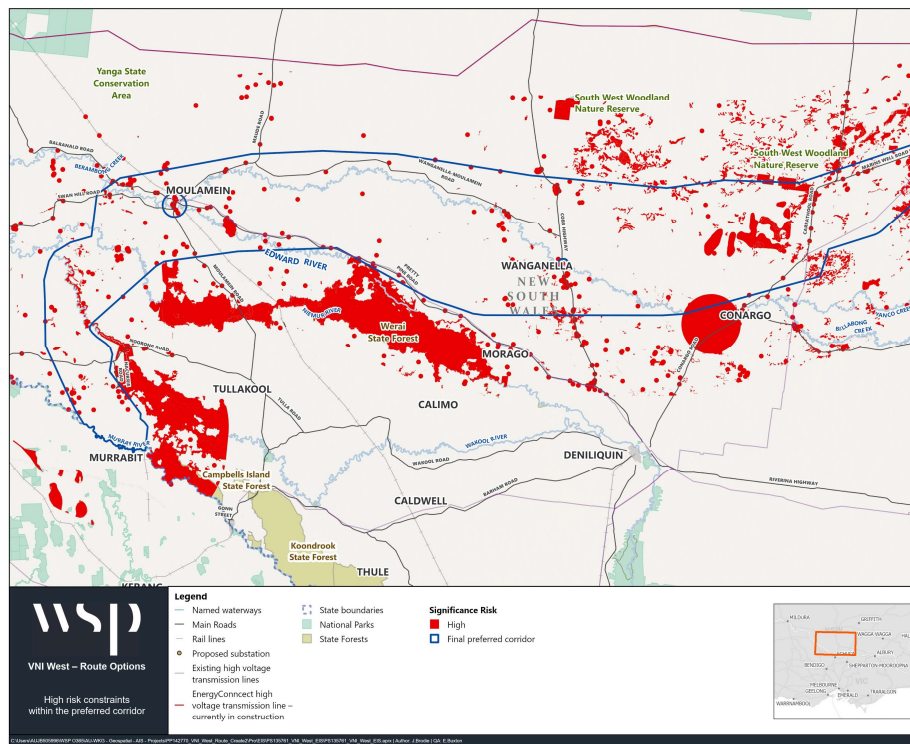
OPPORTUNITIES

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Opportunities and constraints mapping



Transmission 101 – Q&A

Joel Annett and Colin Mayer

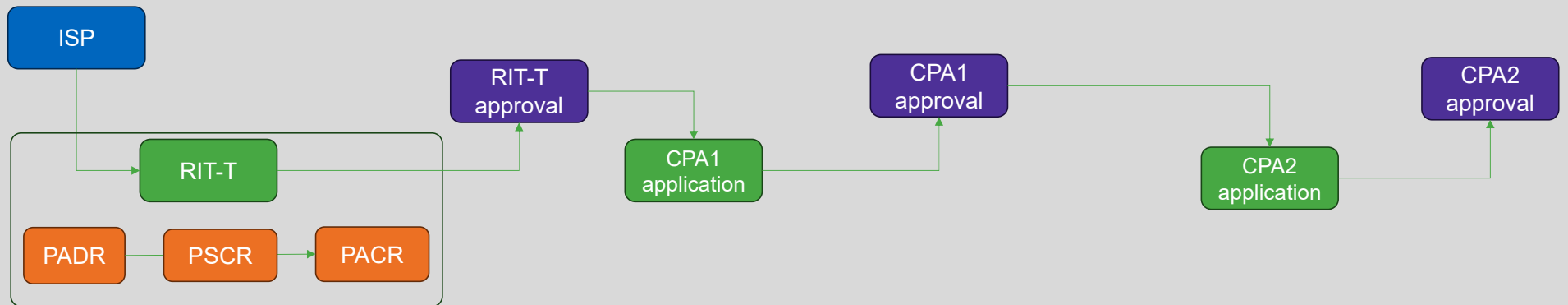


How electricity is managed in NSW

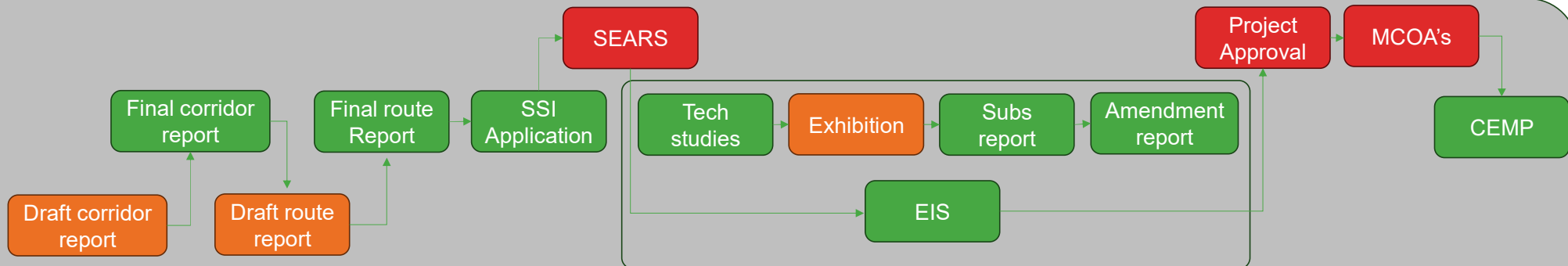


Engagement and approvals process

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Planning approval



AEMO

AER

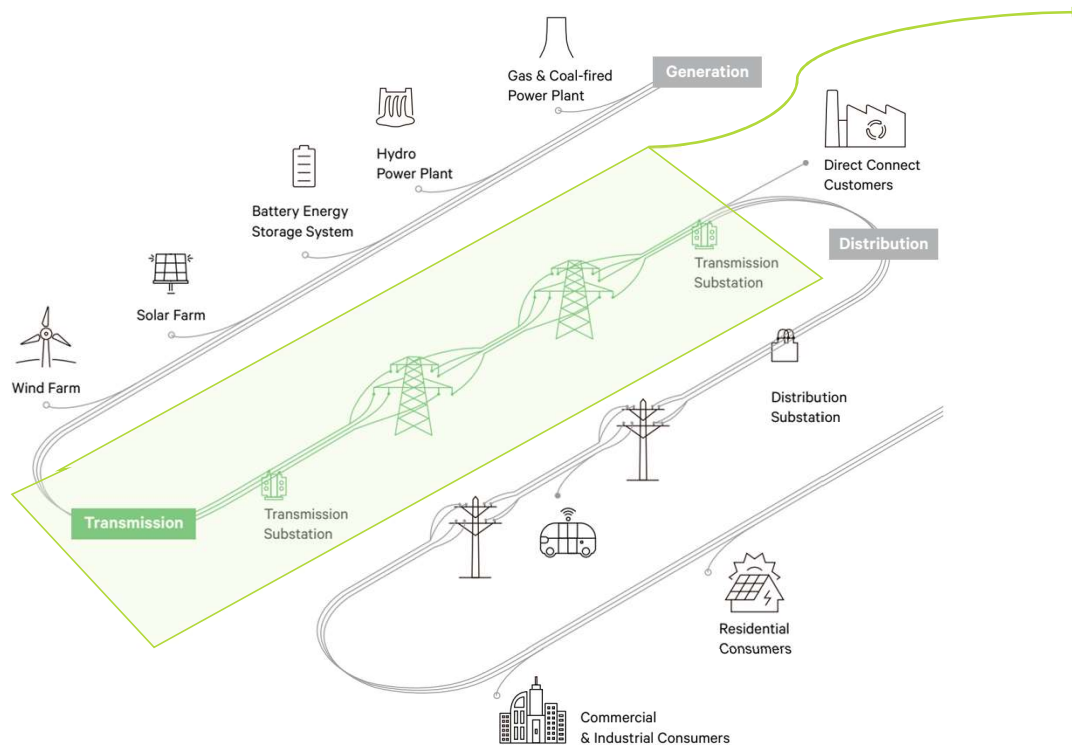
DPIE

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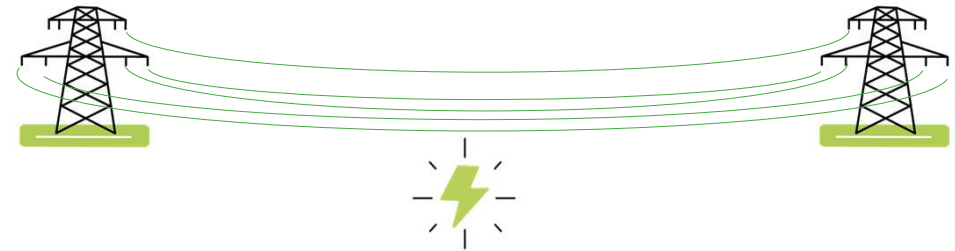
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The Environmental Assessment Process

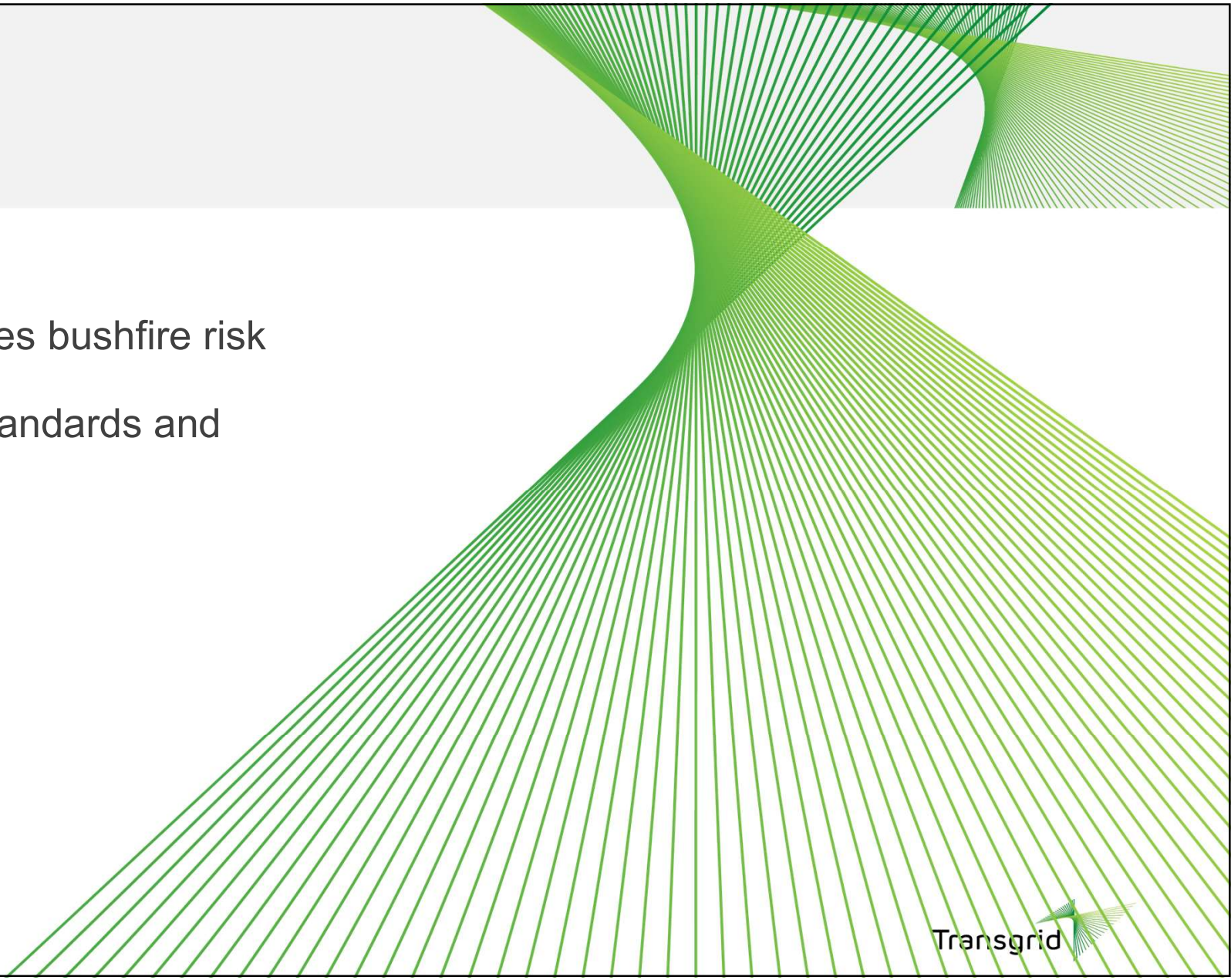
Geoff Hudson, Environment Manager

Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



An abstract graphic composed of numerous thin, green lines that originate from a central point and radiate outwards, creating a sense of movement and depth. The lines are arranged in a way that they form a large, stylized 'V' or 'Y' shape, with the lines becoming more densely packed towards the center and more spread out towards the edges. The overall effect is a dynamic, organic pattern that fills the right side of the slide.

How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
Compliance Manager

Compliance & Risk Approach

Compliance Instruments

Electricity Supply (Safety and Network Management) Regulation 2014

A network operator must have a safety management system in place that is in accordance with AS 5577; and addresses the **management of bushfire risk** relating to assets capable of initiating a bushfire.

AS 5577 Electricity Network Safety Management

The Standard exists for the support of:

- the **safety of the public**, and persons near or working on the network
- the protection of property and network assets
- safety aspects arising from the protection of the environment, including protection from **ignition of fires by electricity networks**
- safety aspects arising from the loss of electricity supply.

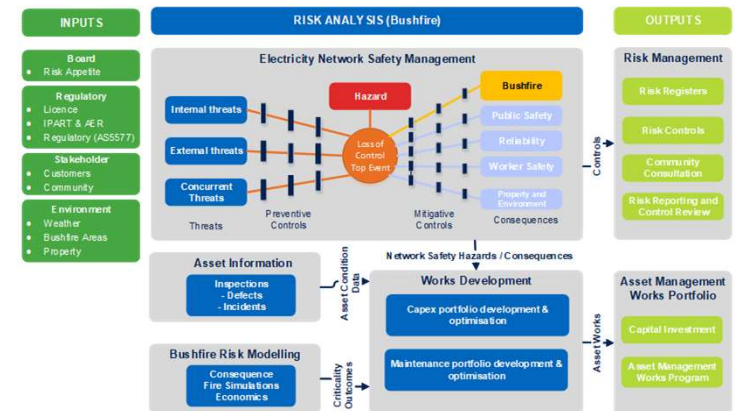
Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
- Incorporates appropriate **oversight and reporting** committees for performance tracking and continuous improvement.
- System effectiveness is frequently assured through internal and external **auditing**.

Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

Our inspection programs identify high priority asset defects based on failure consequences prior to season commencement to help mitigate bushfire risks, this includes:

1. Vegetation Management

- **Ground easement inspection** and **vegetation management** - ensures clearances to transmission lines are maintained prior to the next maintenance cycle
- Annual **LiDAR inspections** prior to the bushfire season – ensures unexpected growth or intrusions are identified and managed between routine inspections
- **Off easement hazard tree** management is prioritised based on quantified bushfire risk.

2. Transmission Lines

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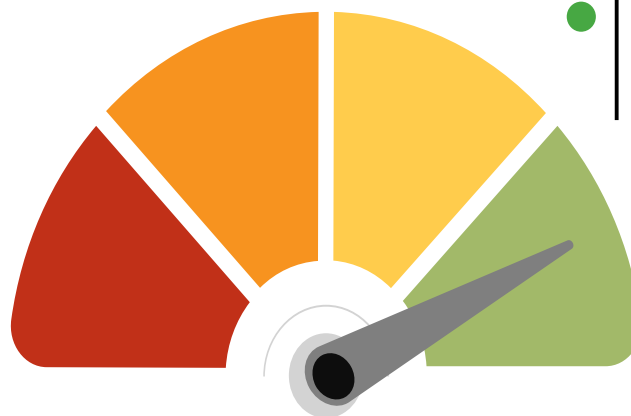
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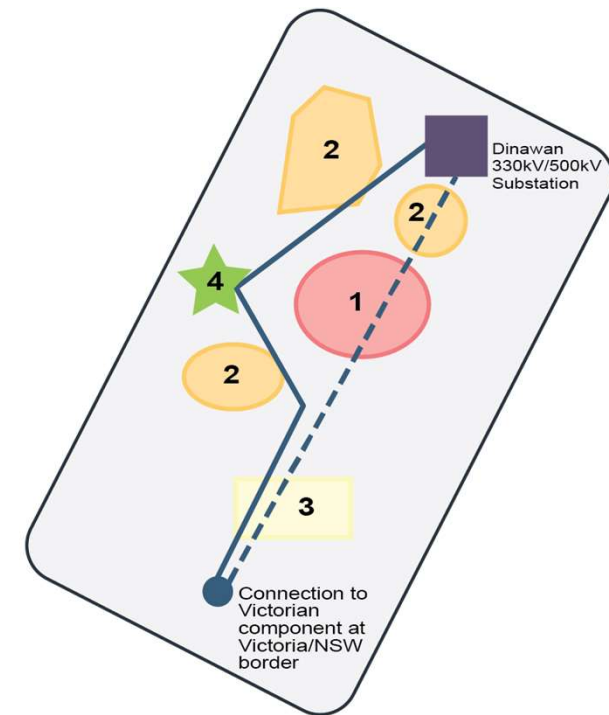
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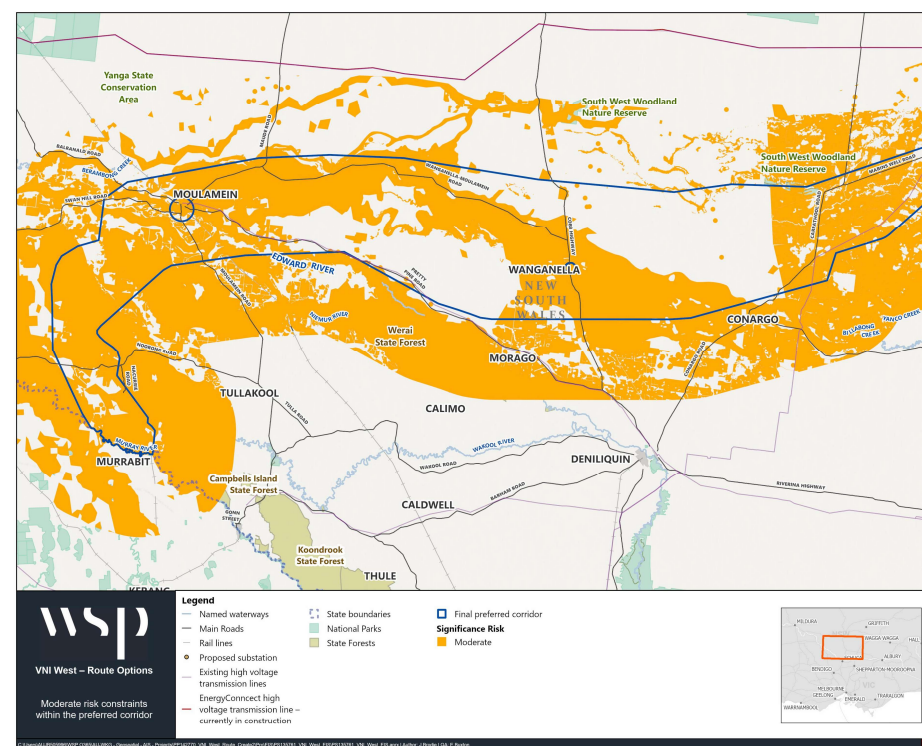
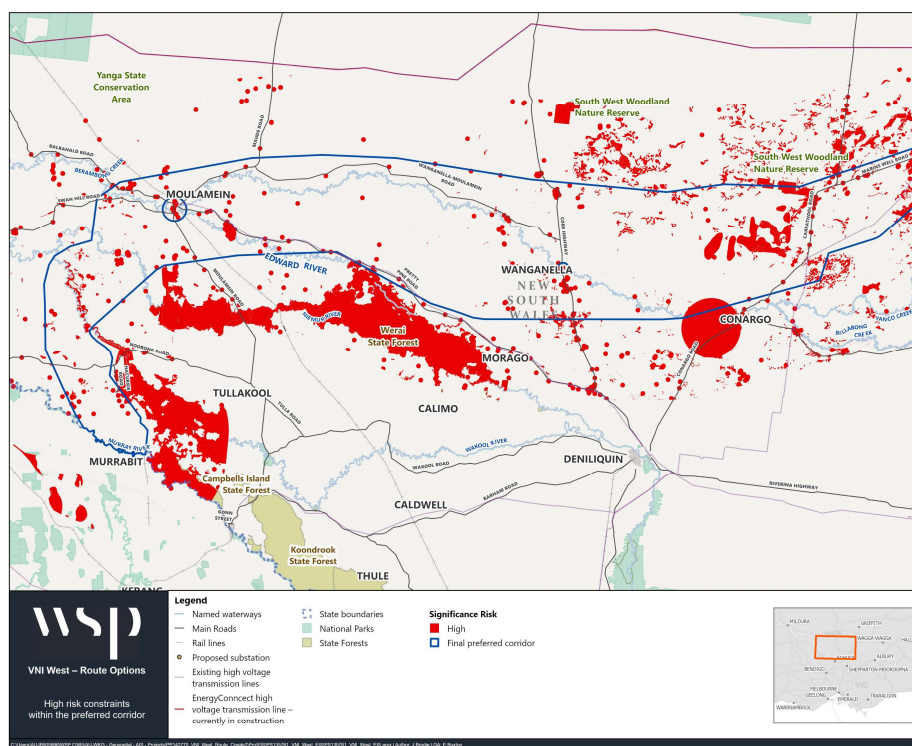
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Joel Annett and Colin Mayer

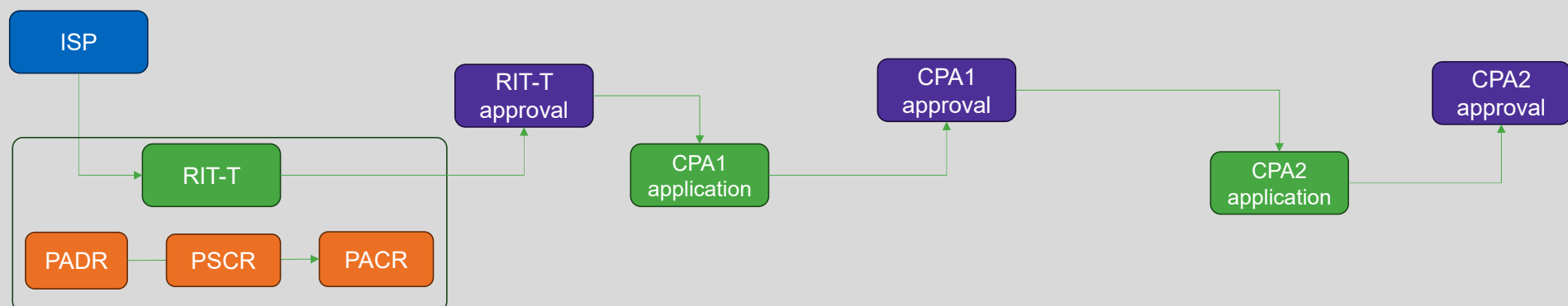


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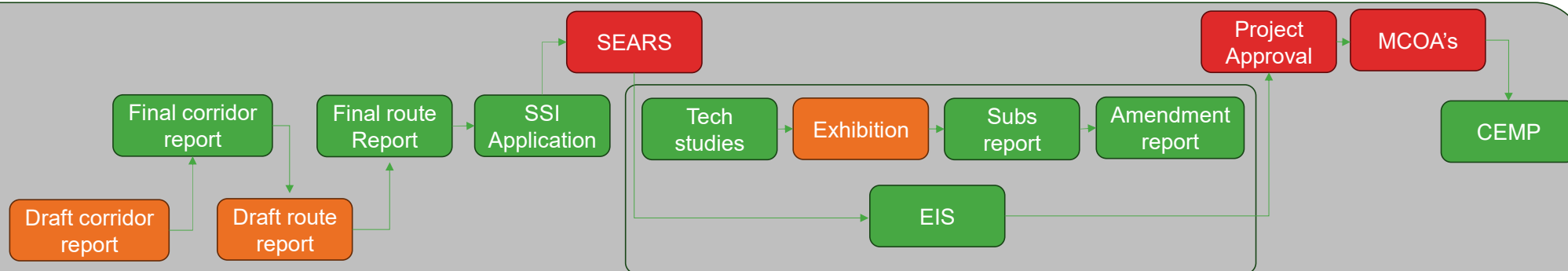


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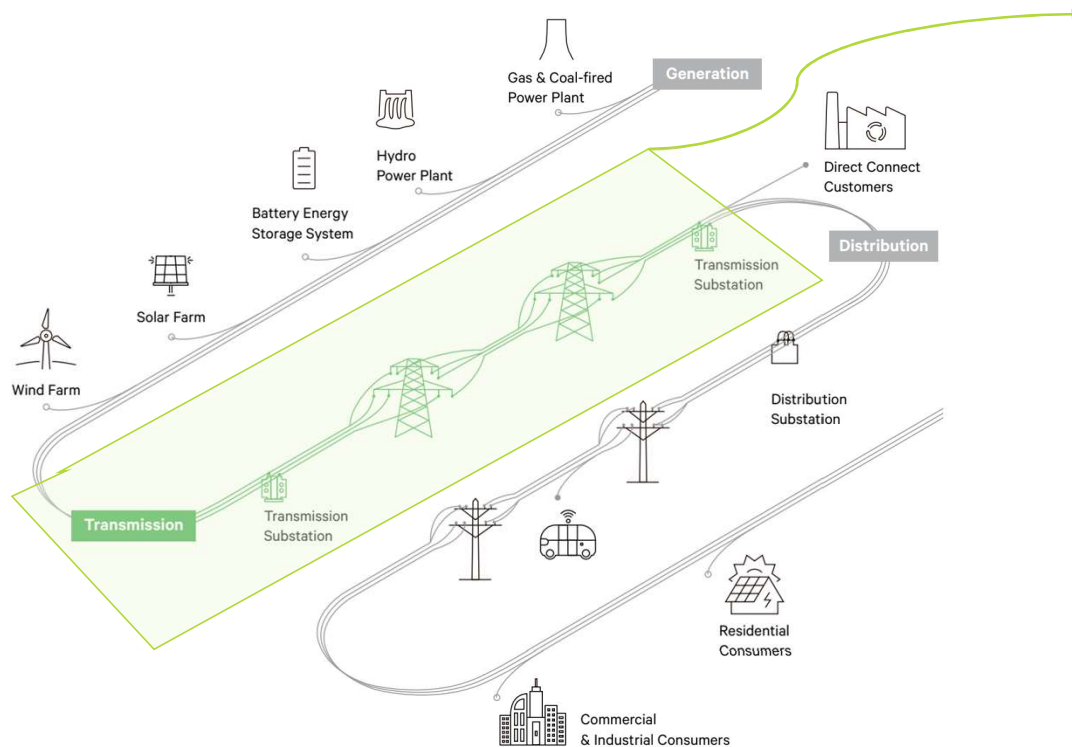
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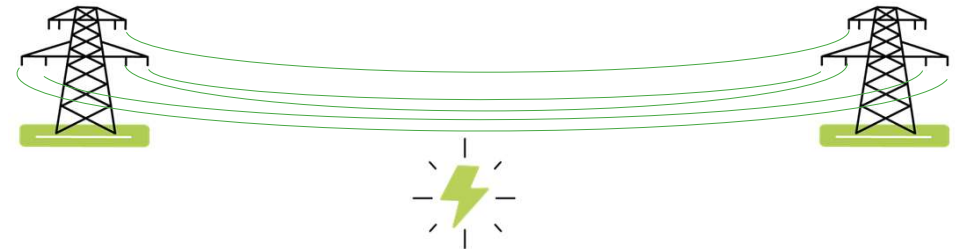
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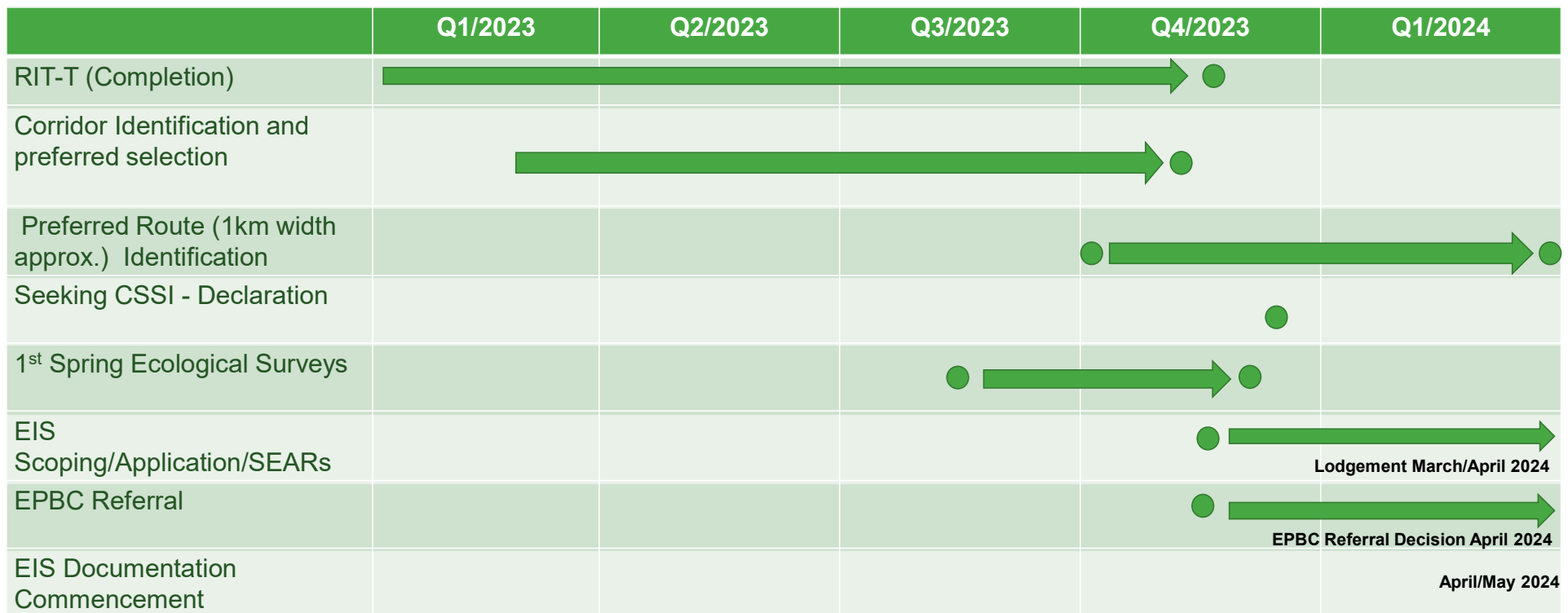
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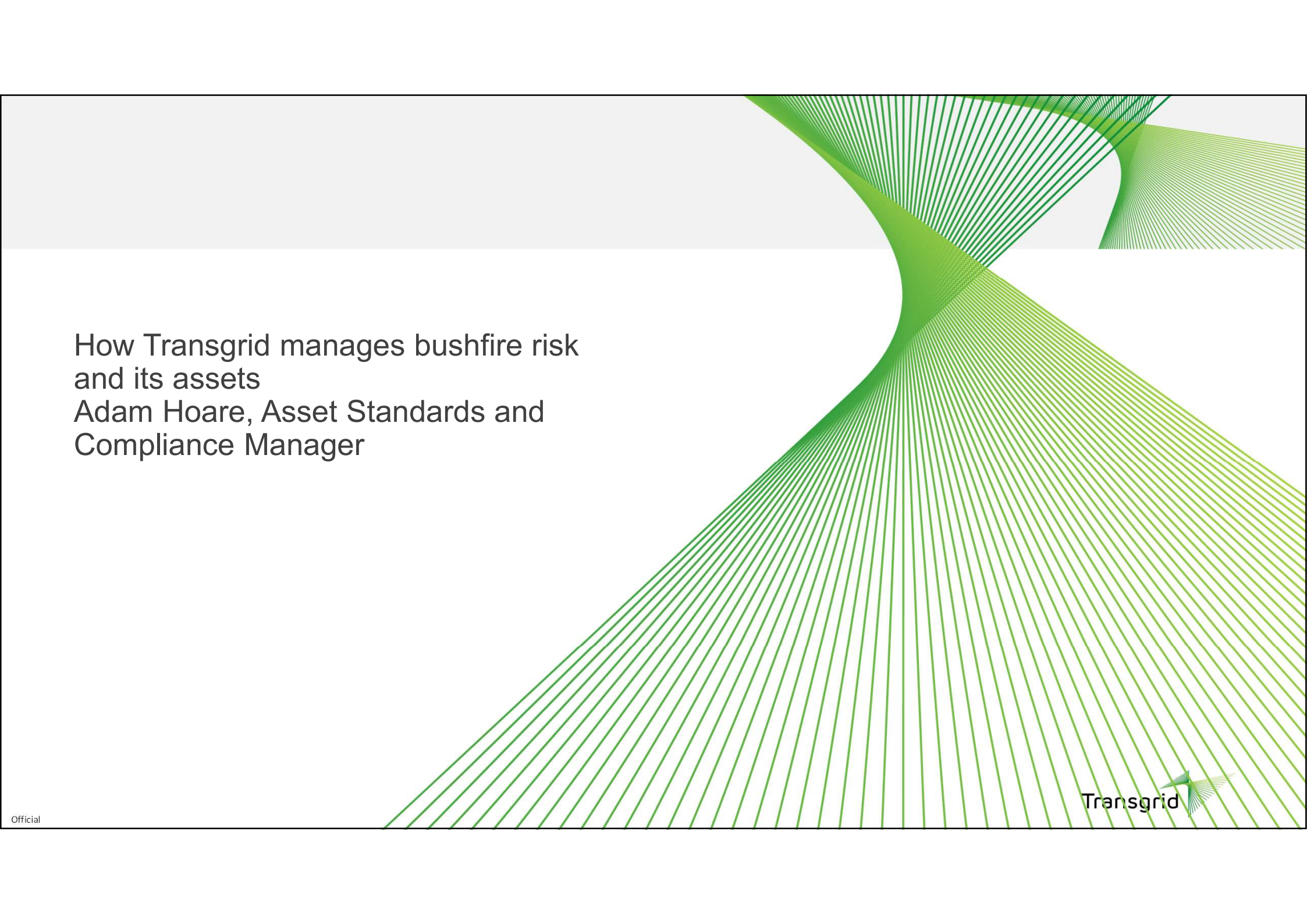
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Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



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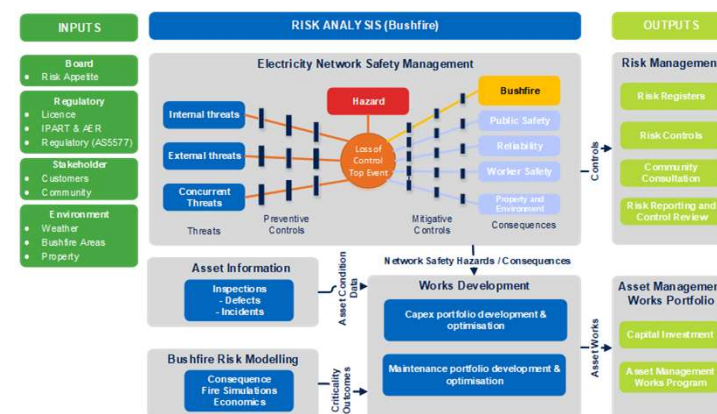
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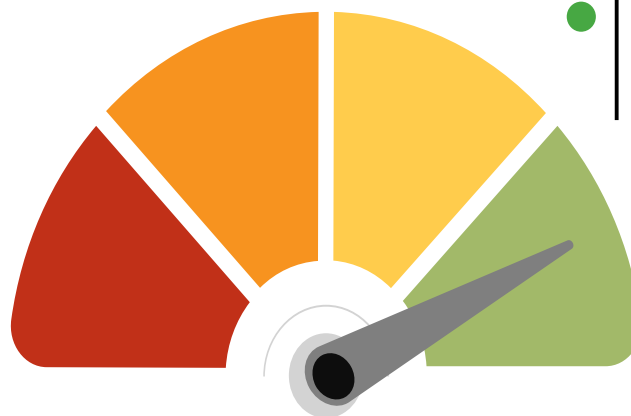
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Meeting close

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

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Route selection process

2023

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Hierarchy of constraints

Technical

- Land use
- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
- Visual and landscape

High constraint EXCLUDE

- Areas considered unfeasible for the siting of a transmission line
- Excluded from the assessment

Moderate constraint AVOID

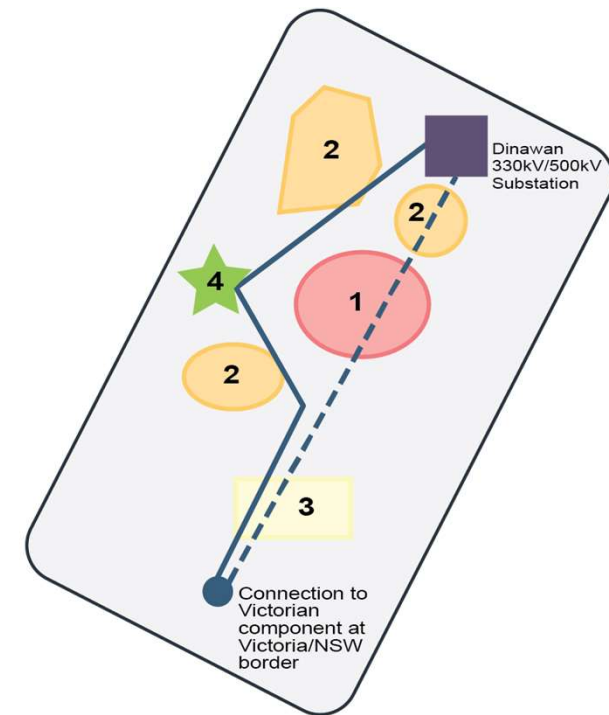
- Areas significantly constrained
- Should be avoided where possible

Low constraint MINIMISE

- Areas that are constrained, however, avoidance may be considered a lower priority
- Minimisation of impact to these areas should be considered

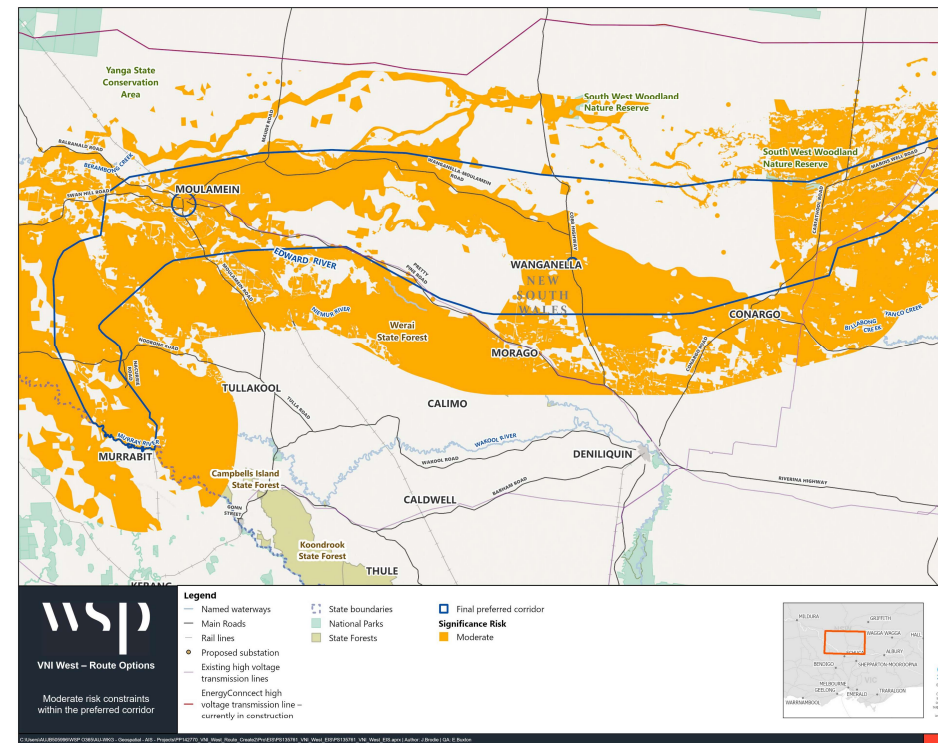
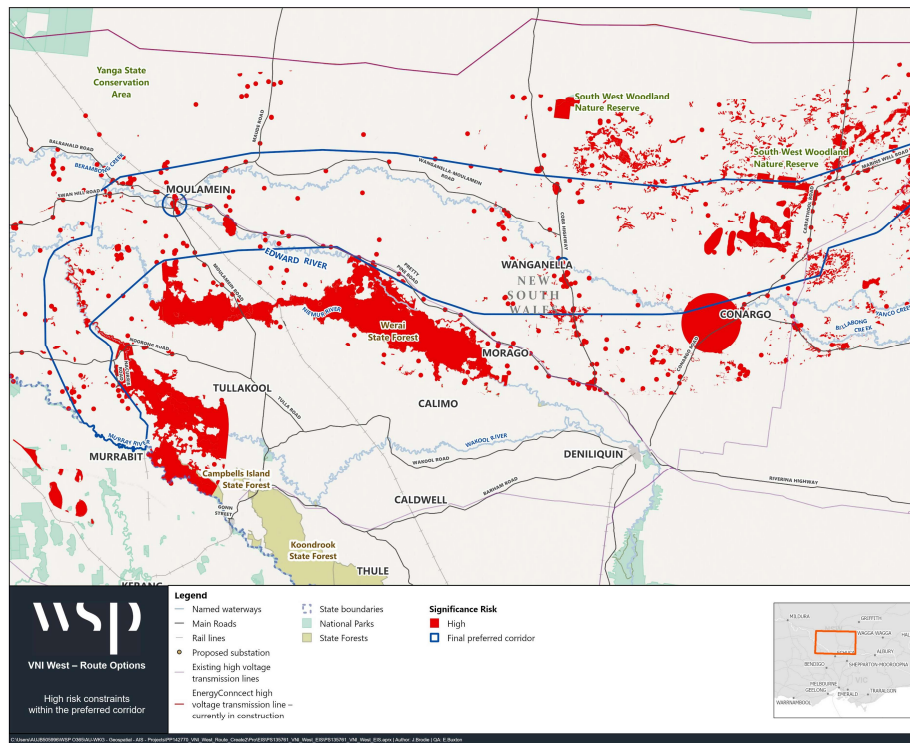
OPPORTUNITIES

- Areas that present potential opportunities for siting of the transmission line
- Should be considered as a preference for selecting and refining the transmission line corridor



- Feasible corridor, avoiding constraints and utilising opportunities
- - - Unfeasible corridor

Opportunities and constraints mapping



Transmission 101 – Q&A

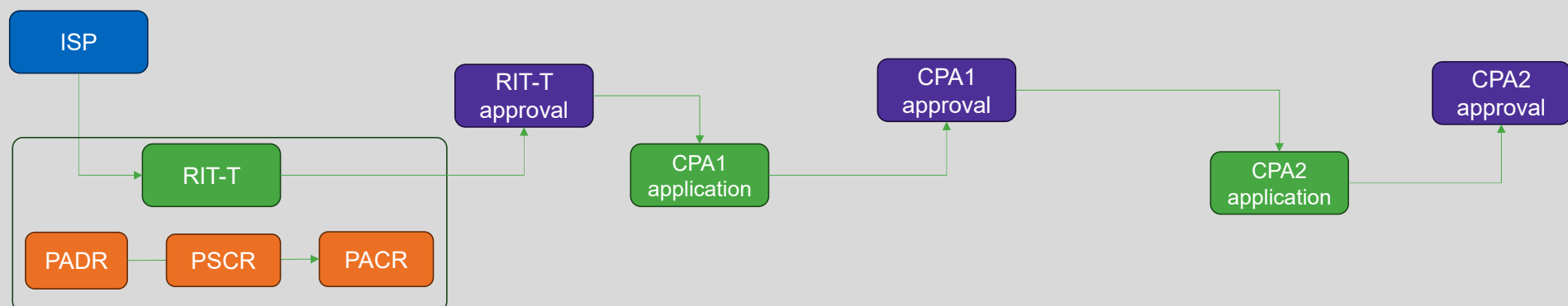
Joel Annett and Colin Mayer

How electricity is managed in NSW

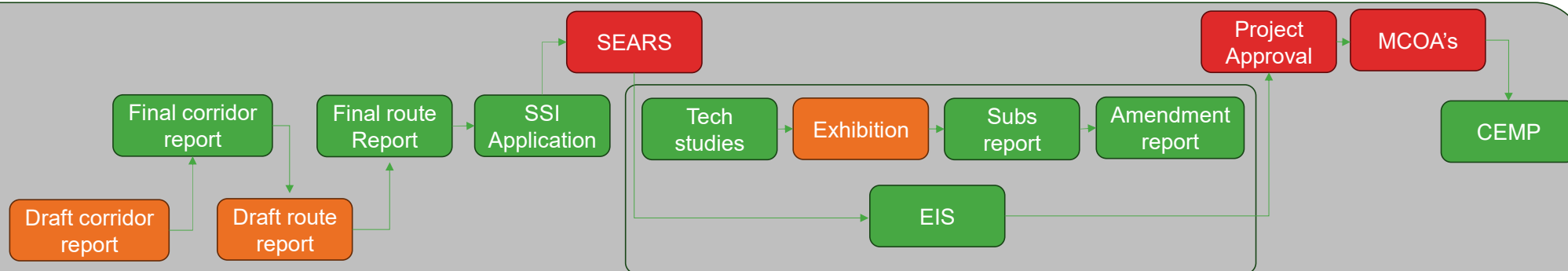


Engagement and approvals process

Regulatory approval



Planning approval



AEMO

AER

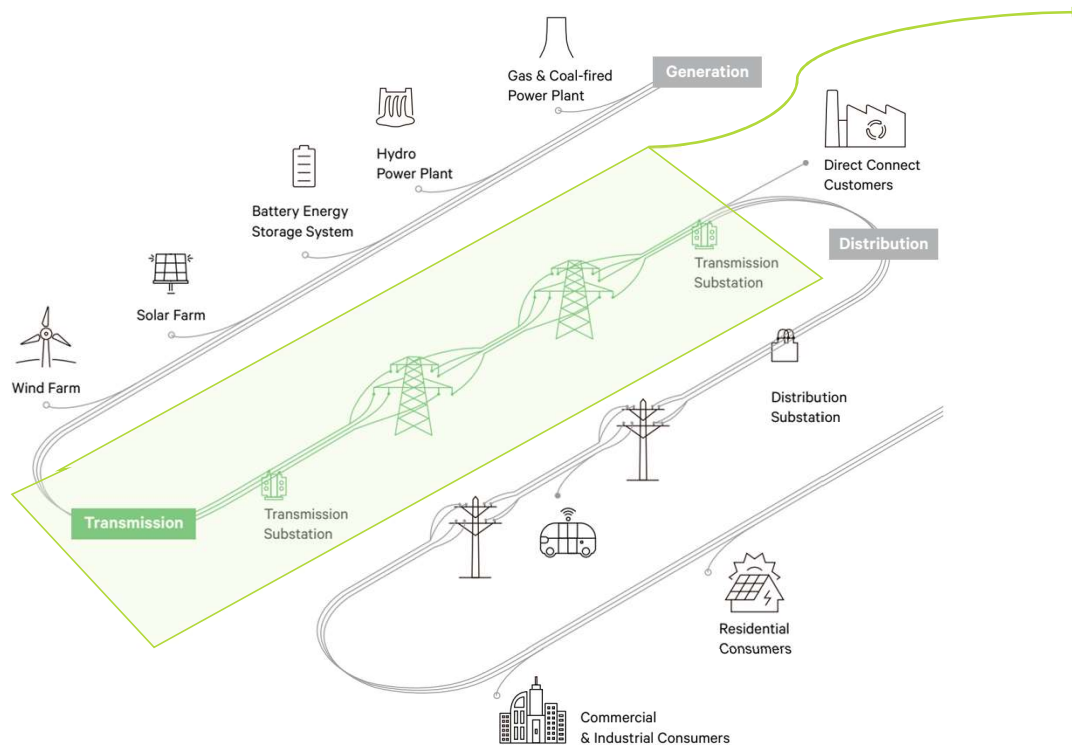
DPIE

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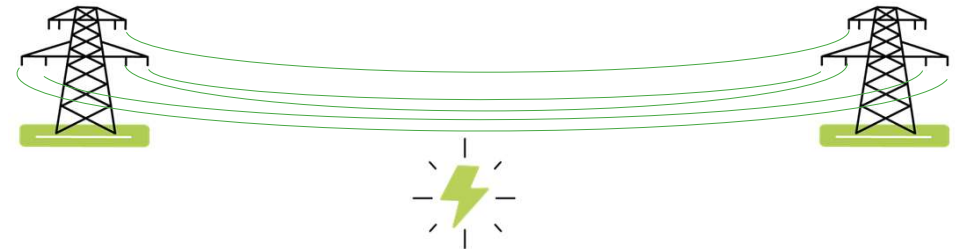
Consultation

Where transmission fits in the system

Electricity Supply Chain



Safe, Reliable & Secure Transmission



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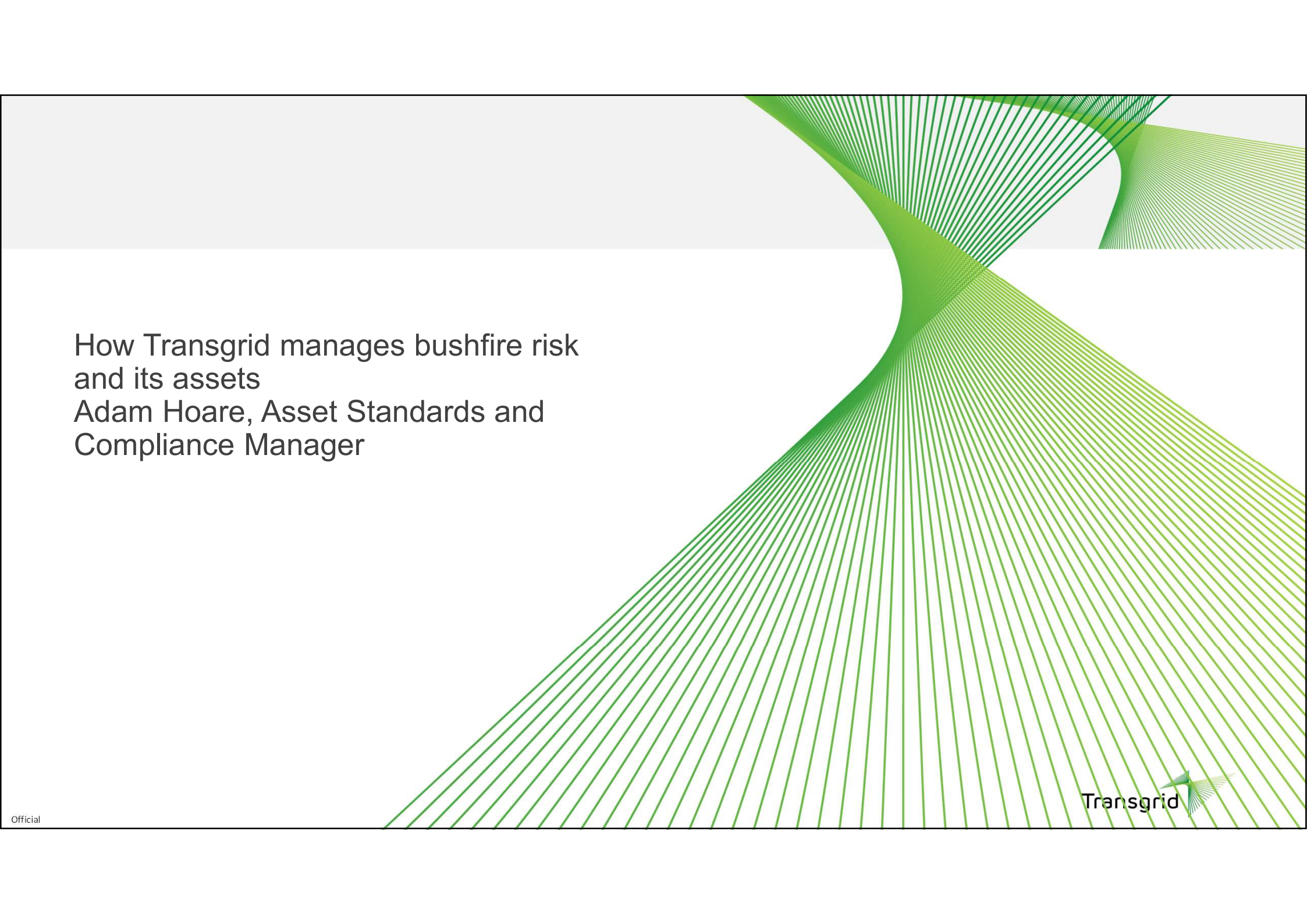
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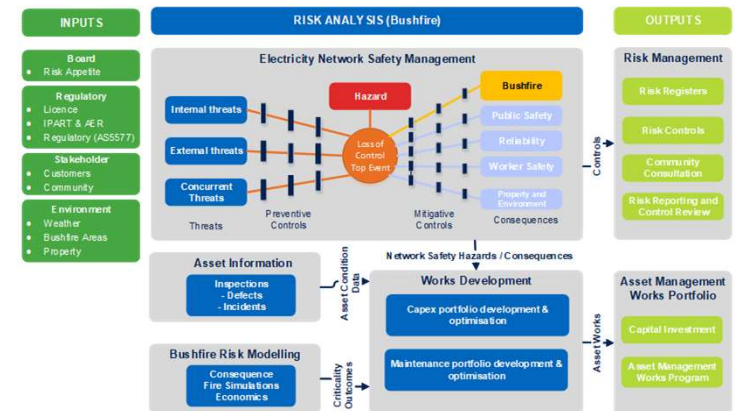
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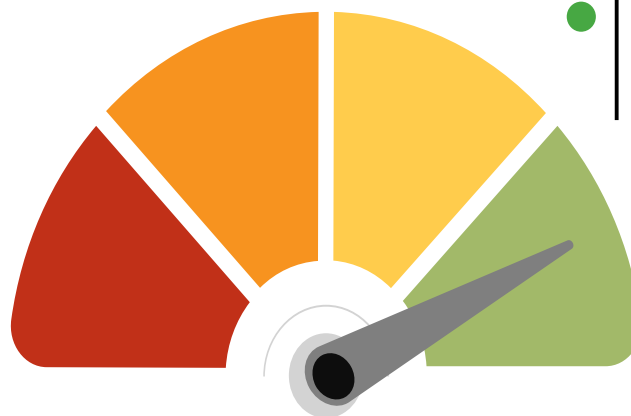
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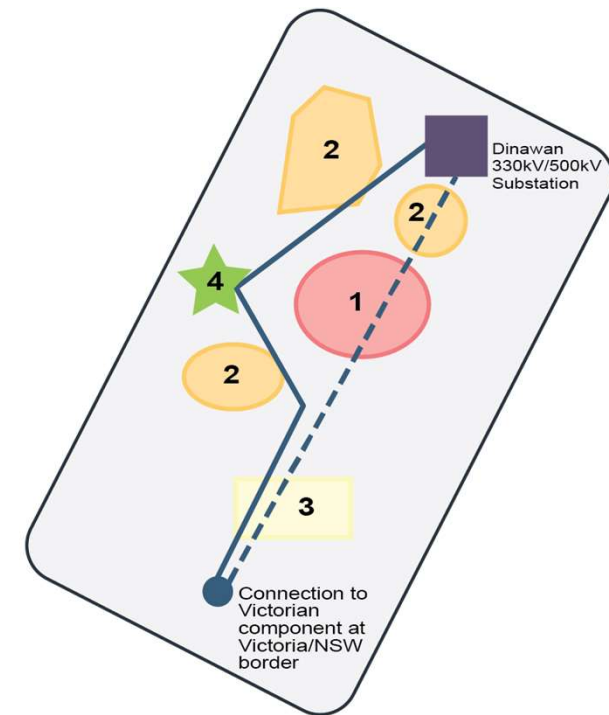
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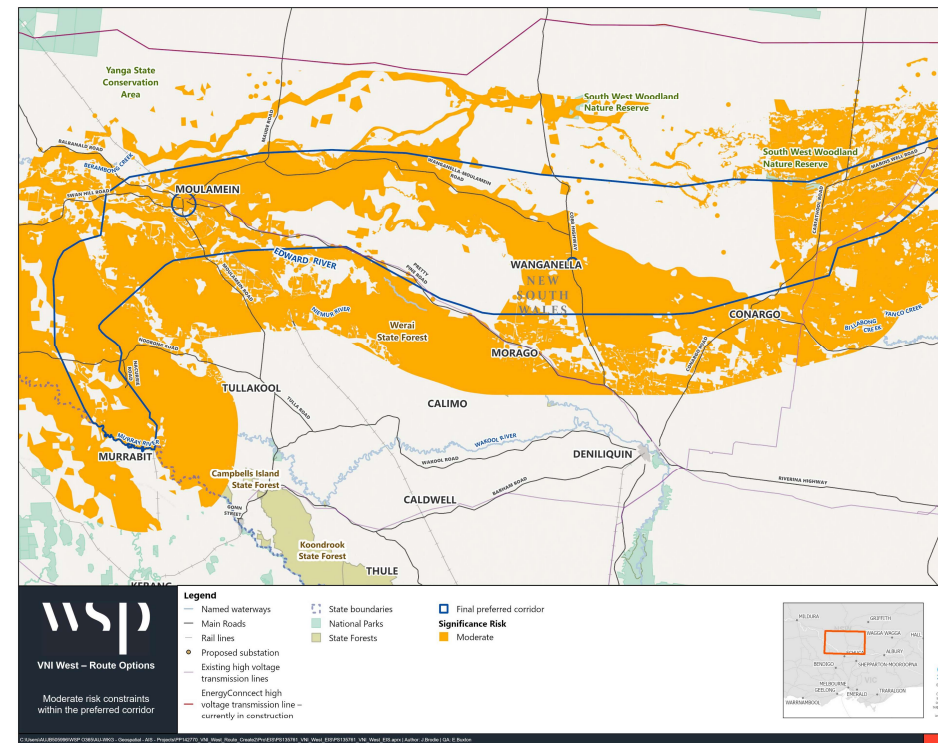
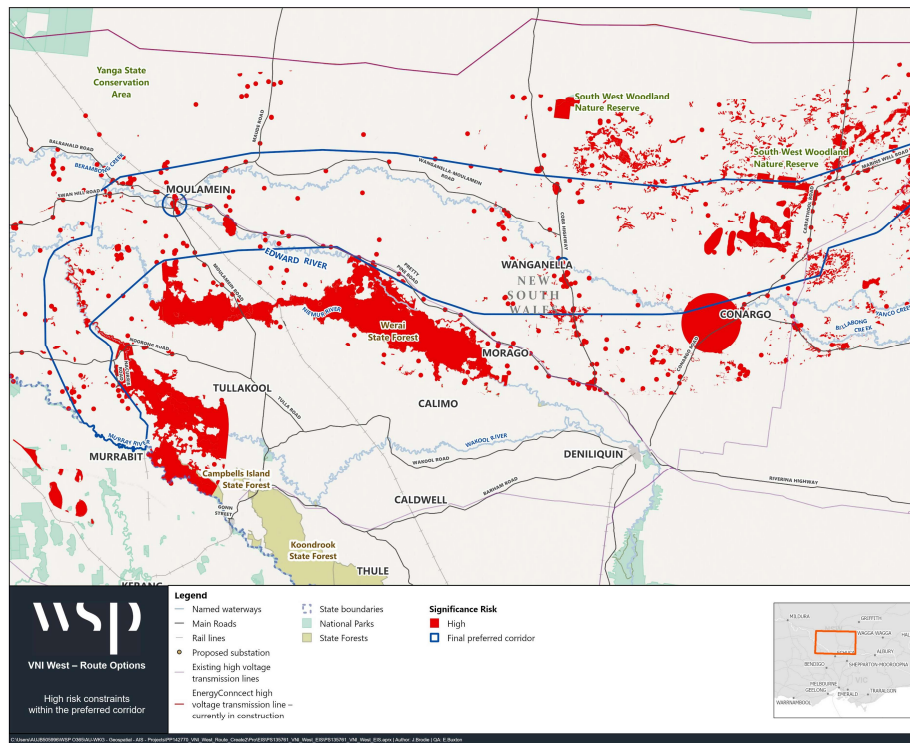
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Transmission 101 – Q&A

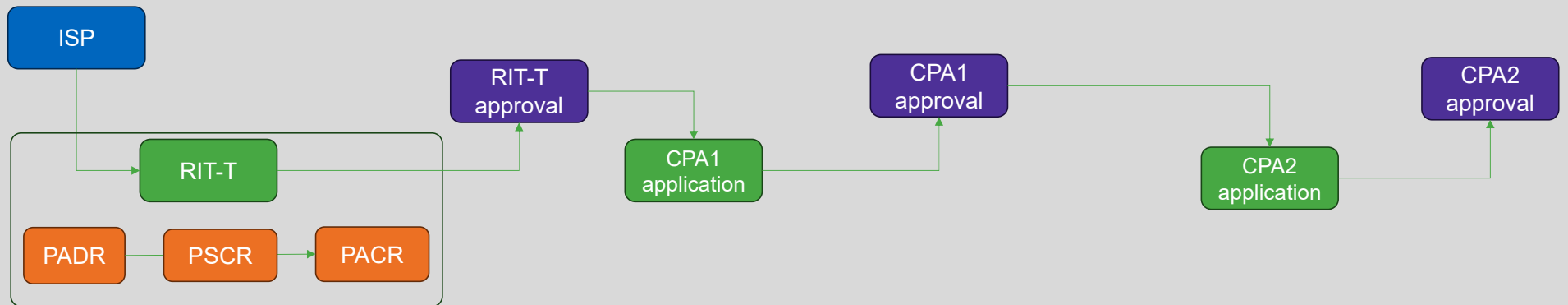
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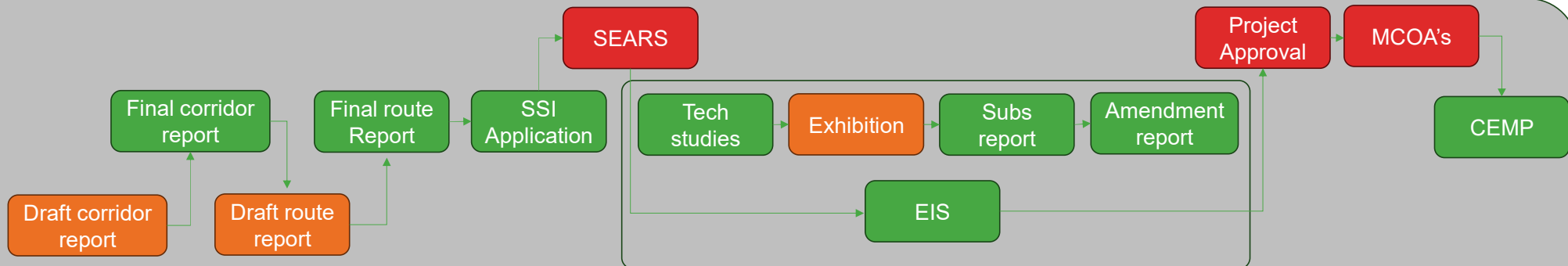


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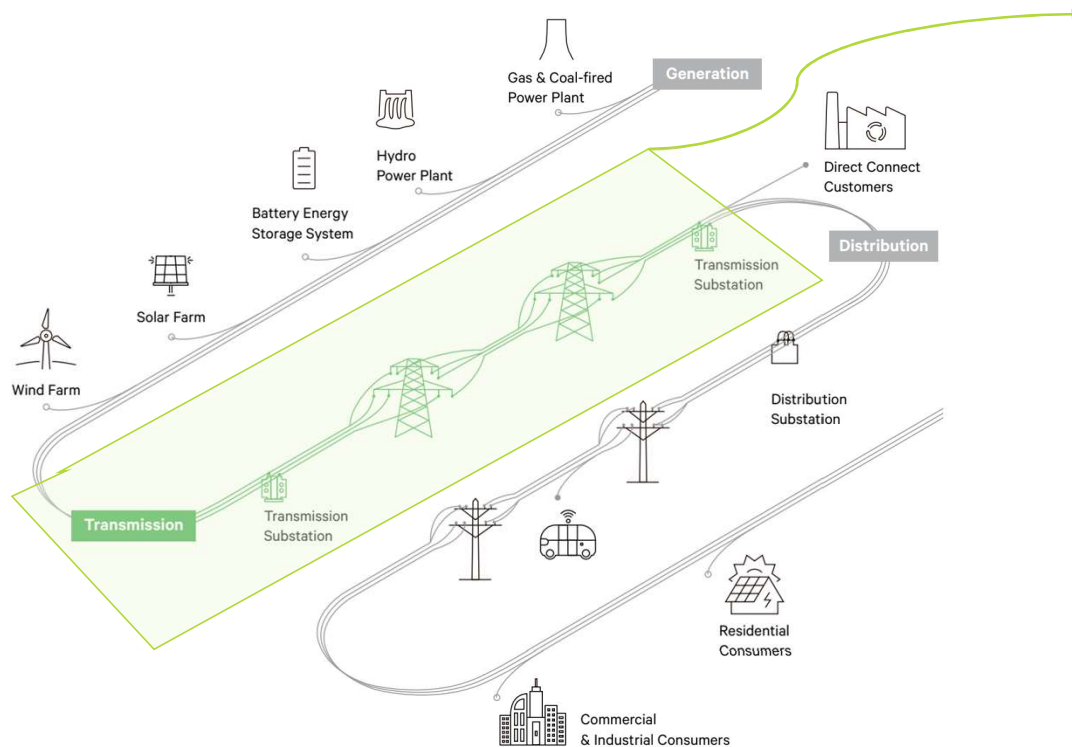
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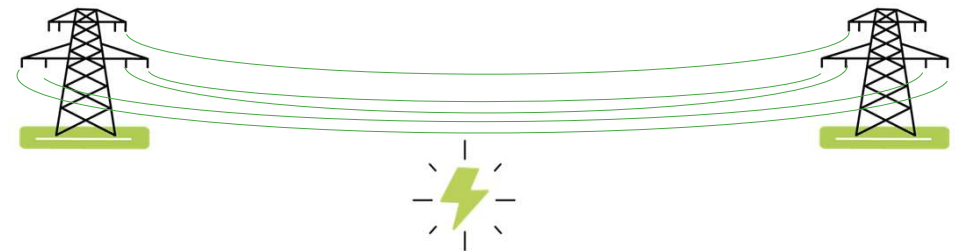
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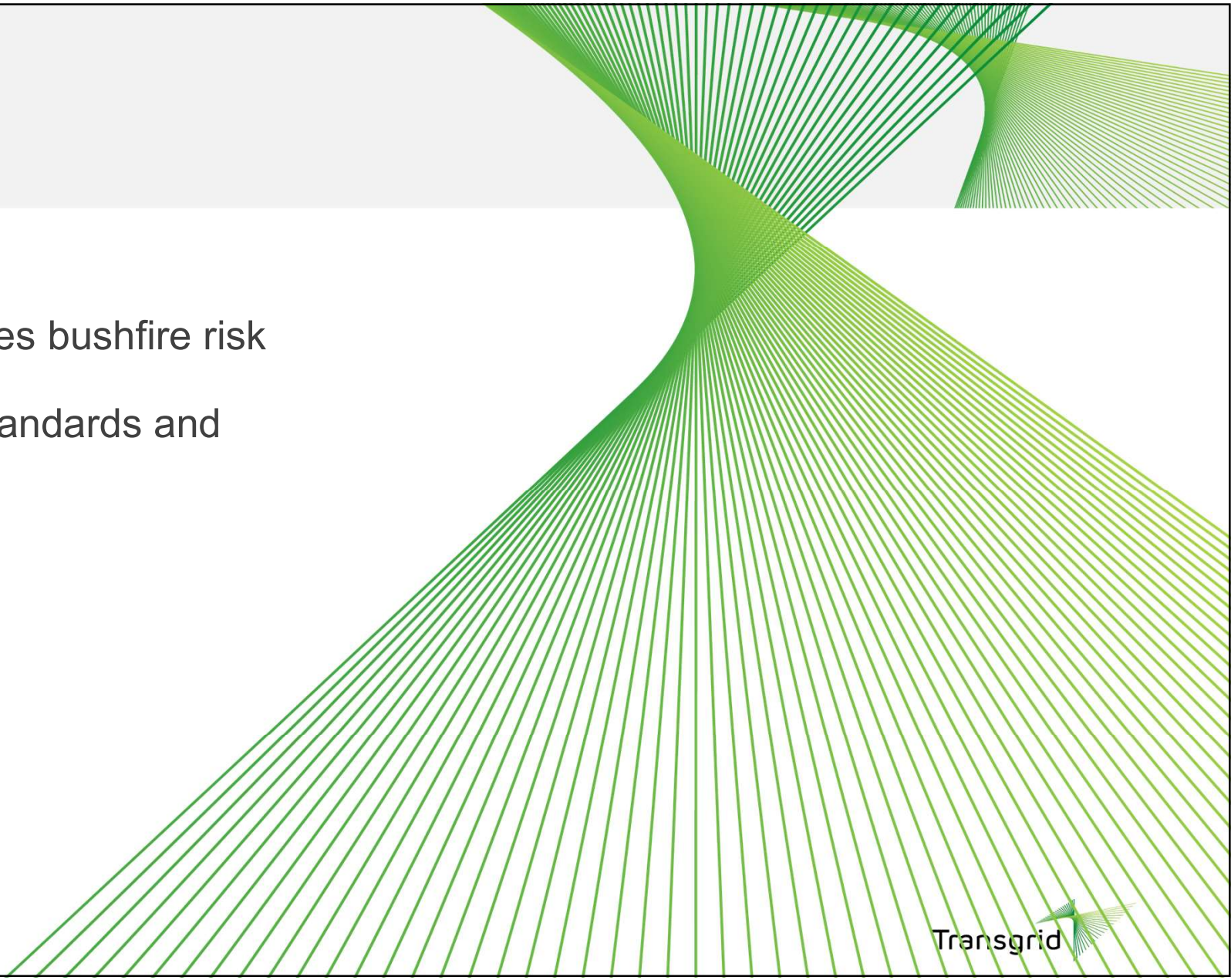
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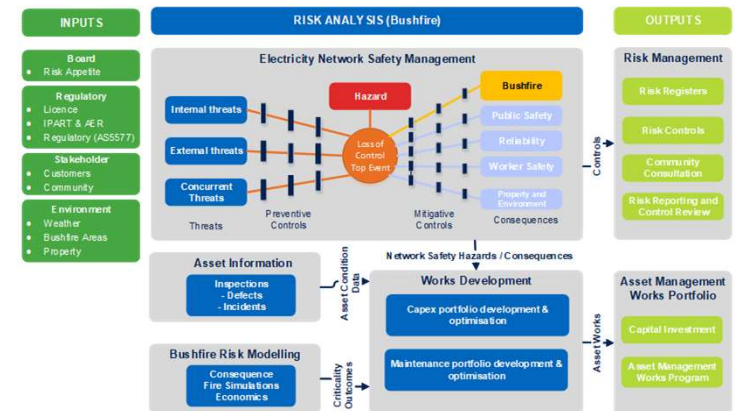
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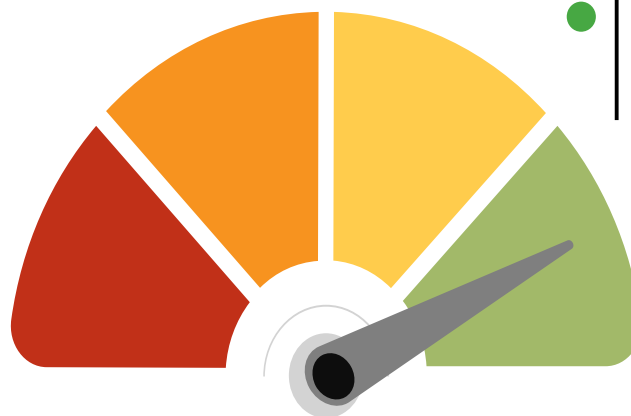
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VNI West Community Consultative Group

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Route options assessment methodology - Current progress

- Review and update of constraint and opportunity criteria
 - Testing and agreement of the technical, environmental and social/community criteria
- Identification of preliminary route options
 - With a focus on the high and moderate potential impact constraints, a series of preliminary routes have been identified
 - This was undertaken both through visually analysing the constraint mapping of high and moderate potential impact constraints and identifying best-fit alignments which were readily apparent from the mapping.
- Refinement to a short-list of route options for taking forward to assessment
 - The preliminary route options are currently being refined to a short list of feasible options
 - The short-listed route options will then be subject to the assessment methodology and further detailed consideration.

Route options assessment methodology - Evaluation overview

- The route evaluation and assessment methodology will consist of the following components:
 - **Application of a traffic light scoring system supported by qualitative data:** Utilising the available mapping data (including feedback received from CCG members), each of the options will be considered as to whether they have an 'on-balance' positive, neutral or adverse outcome.

Positive outcome compared to other options

Neutral outcome compared to other options

Adverse outcome compared to other options
 - **Application of weightings to the identified criteria:** To take into account the potential impact rating allocated to each criteria, a weighting system will be used to allow for a suitable numerical scoring output reflective of ratings levels (i.e. high, moderate, low potential impact or opportunity) identified for each of the criteria.

	Traffic light assessment		
Criteria impact	Green	Orange	Red
High impact constraint	+5	0	-5
Moderate impact constraint	+3	0	-3
Low impact constraint	+1	0	-1
Opportunity	+5	0	0

Route options assessment methodology - Evaluation overview

- **Scoring:** This will include an assessment of how each of the identified options perform against the established route assessment criteria. This will be based on a combination of the consideration of the 'traffic light' assessment and associated weighting identified for each criteria.
- **Validation by Community Consultation Group:** Any feedback on the process and criteria received will be considered for incorporation into the final assessment and reporting.
- **Preliminary evaluation of route options:** The identified preliminary route options will be evaluated using the spatial data gathered for the Project.
- **Documenting the route evaluation process:** The documentation of the process will be included in the Draft Route Options Report for the NSW component of VNI West.
- **Exhibition of the Draft Route Options Report:** The Draft Route Options Report will be placed on public exhibition for a period of around five weeks to allow for community and other stakeholder feedback to be received on the draft options considered and the recommended preferred route option proposed.

Hierarchy of constraints

Technical

- Land use
- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
- Visual and landscape

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- Areas considered unfeasible for the siting of a transmission line
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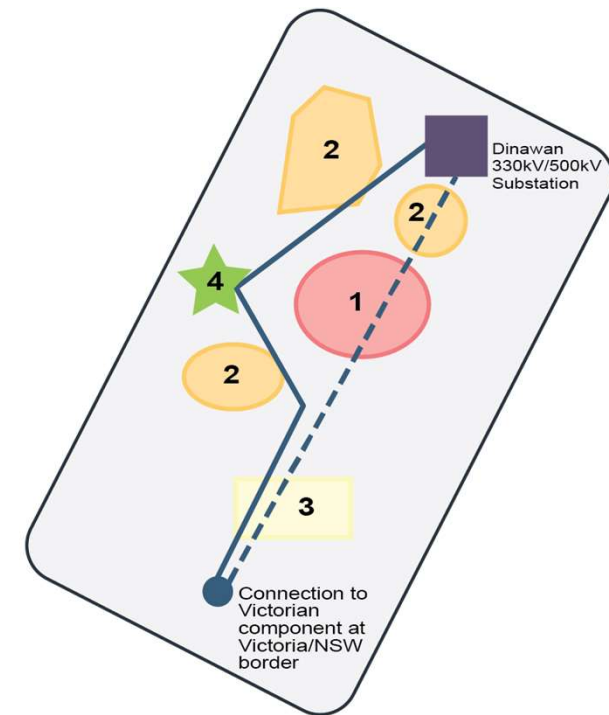
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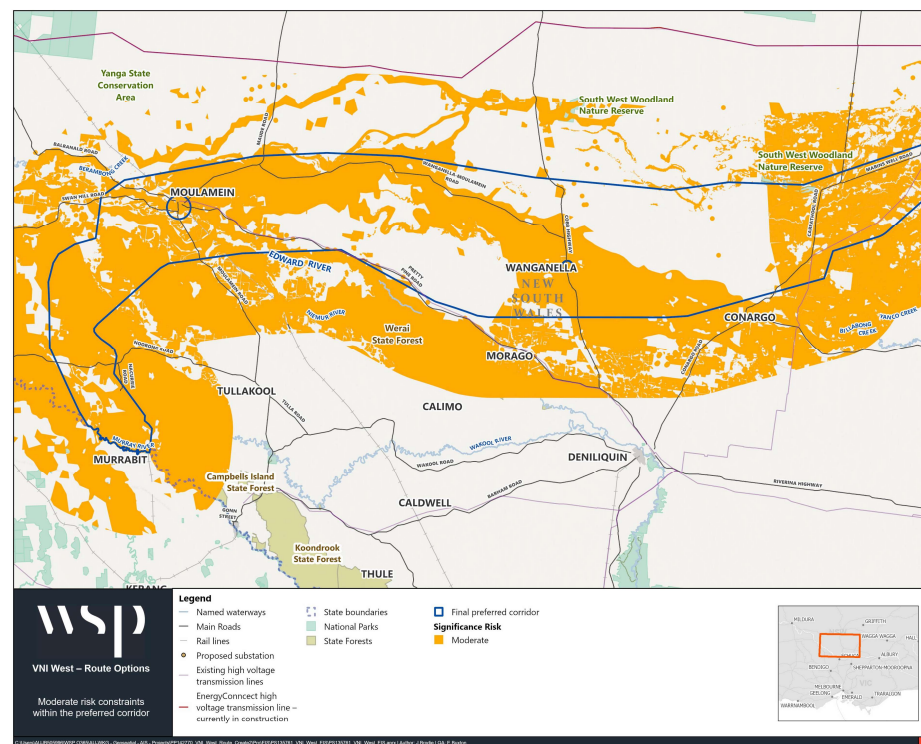
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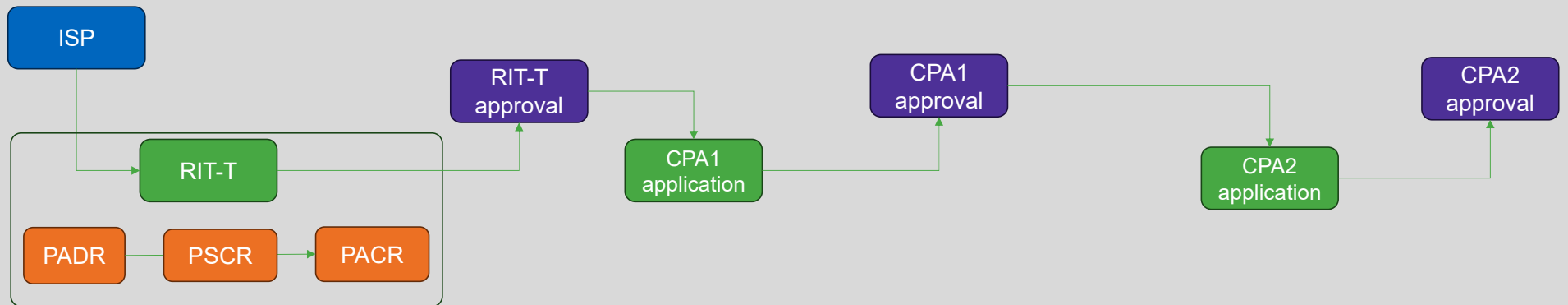


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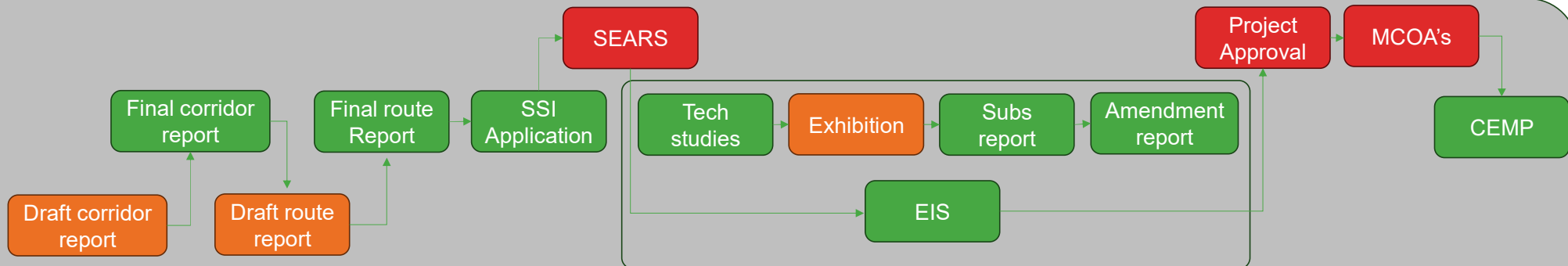


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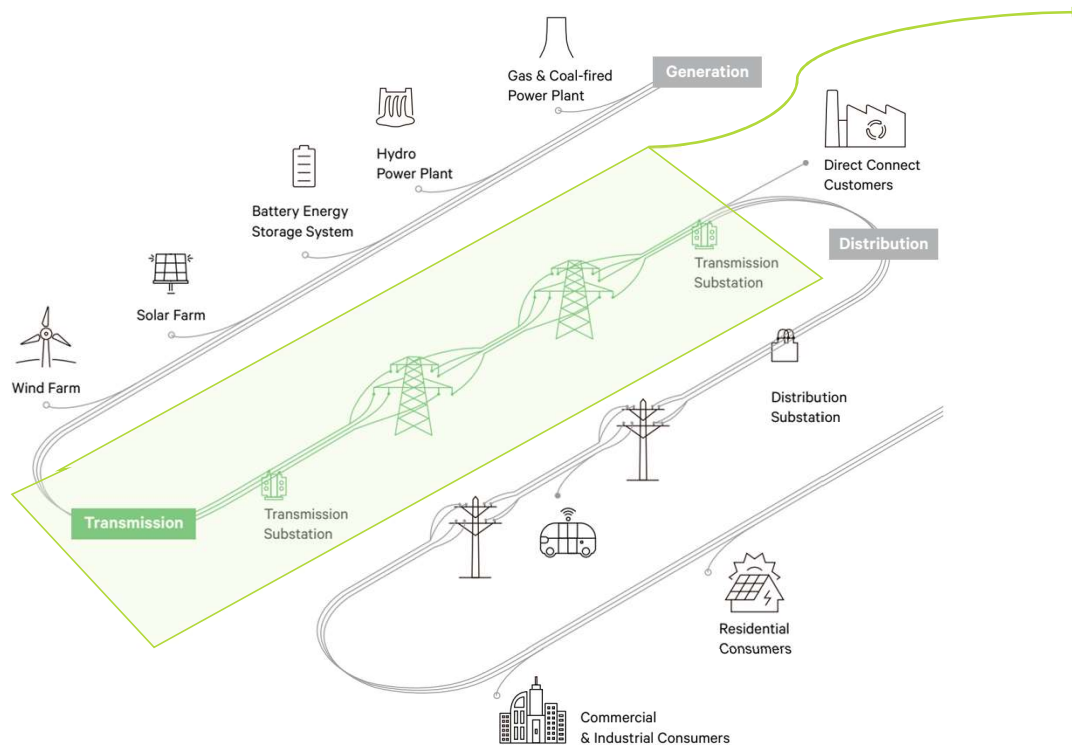
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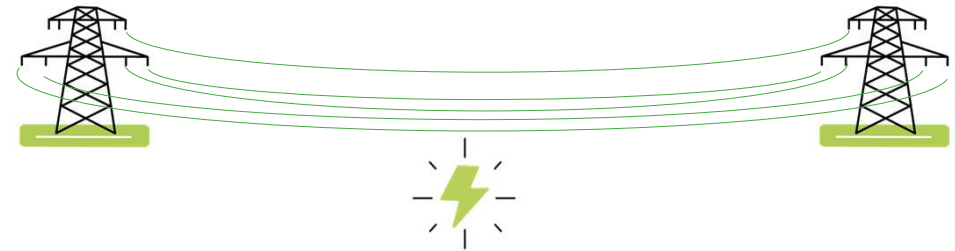
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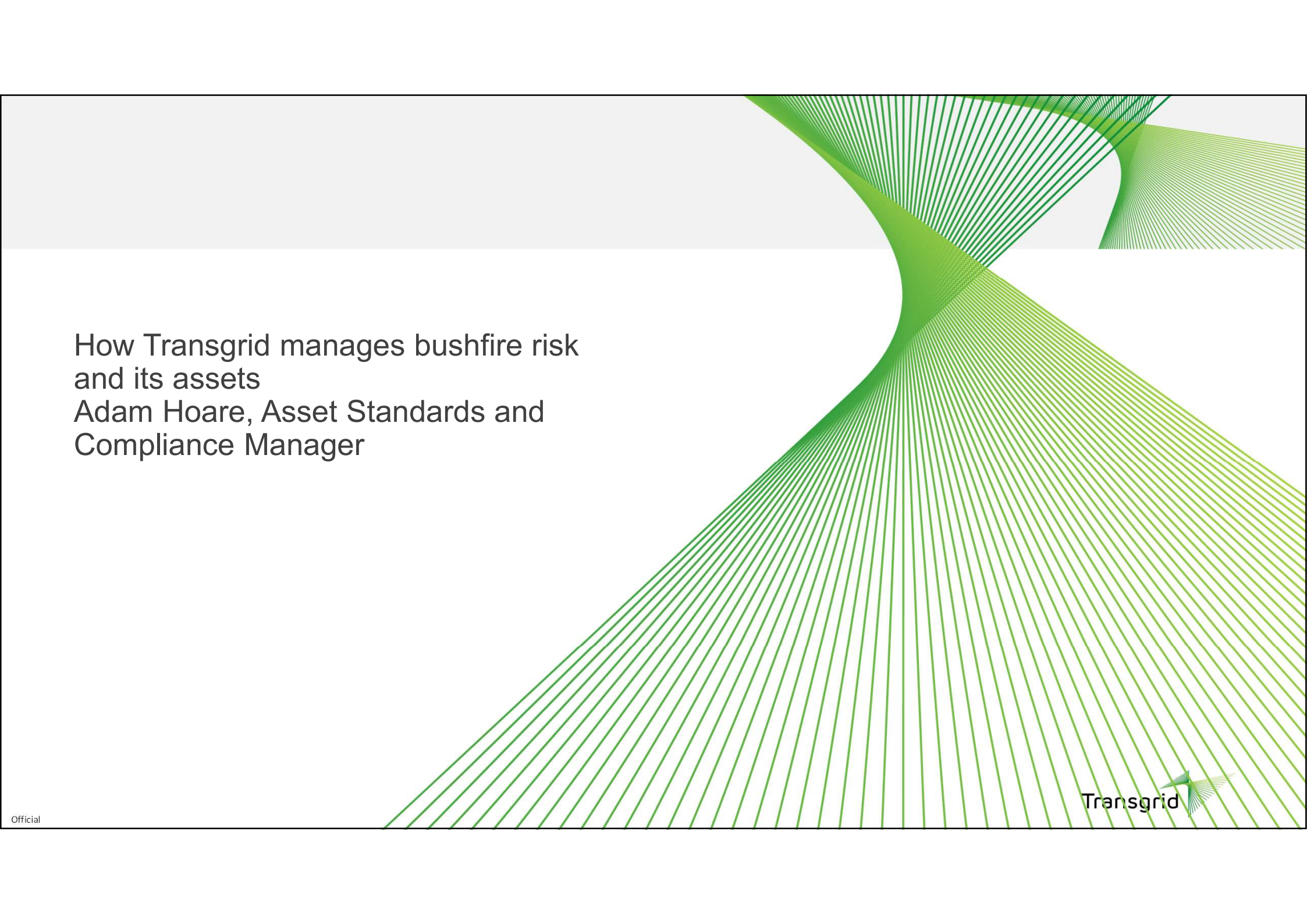
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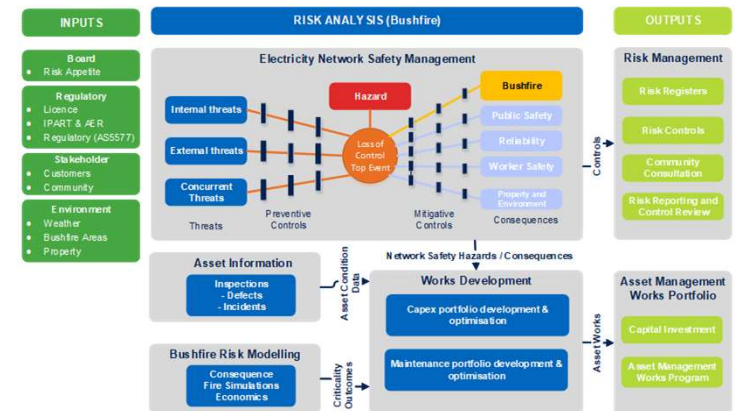
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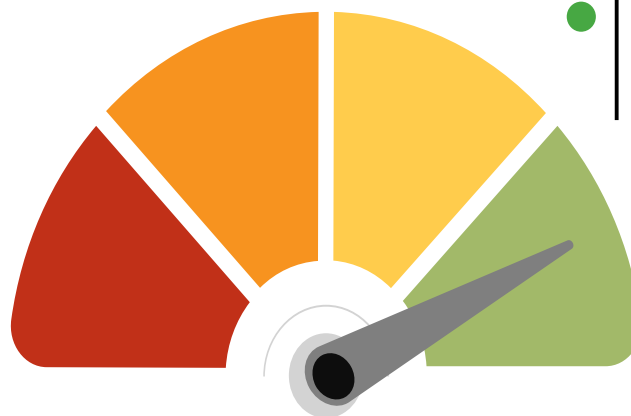
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 - This was undertaken both through visually analysing the constraint mapping of high and moderate potential impact constraints and identifying best-fit alignments which were readily apparent from the mapping.
- Refinement to a short-list of route options for taking forward to assessment
 - The preliminary route options are currently being refined to a short list of feasible options
 - The short-listed route options will then be subject to the assessment methodology and further detailed consideration.

Route options assessment methodology - Evaluation overview

- The route evaluation and assessment methodology will consist of the following components:
 - **Application of a traffic light scoring system supported by qualitative data:** Utilising the available mapping data (including feedback received from CCG members), each of the options will be considered as to whether they have an 'on-balance' positive, neutral or adverse outcome.

Positive outcome compared to other options

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	Traffic light assessment		
Criteria impact	Green	Orange	Red
High impact constraint	+5	0	-5
Moderate impact constraint	+3	0	-3
Low impact constraint	+1	0	-1
Opportunity	+5	0	0

Route options assessment methodology - Evaluation overview

- **Scoring:** This will include an assessment of how each of the identified options perform against the established route assessment criteria. This will be based on a combination of the consideration of the 'traffic light' assessment and associated weighting identified for each criteria.
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Hierarchy of constraints

Technical

- Land use
- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
- Visual and landscape

High constraint EXCLUDE

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Moderate constraint AVOID

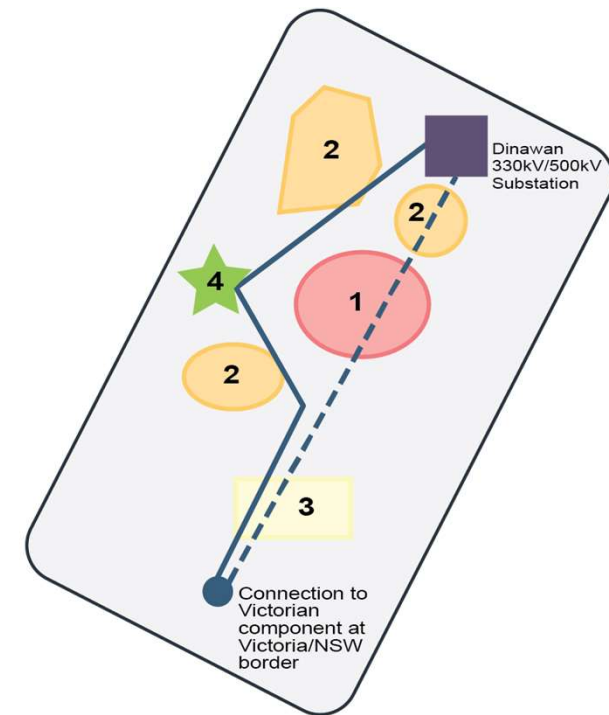
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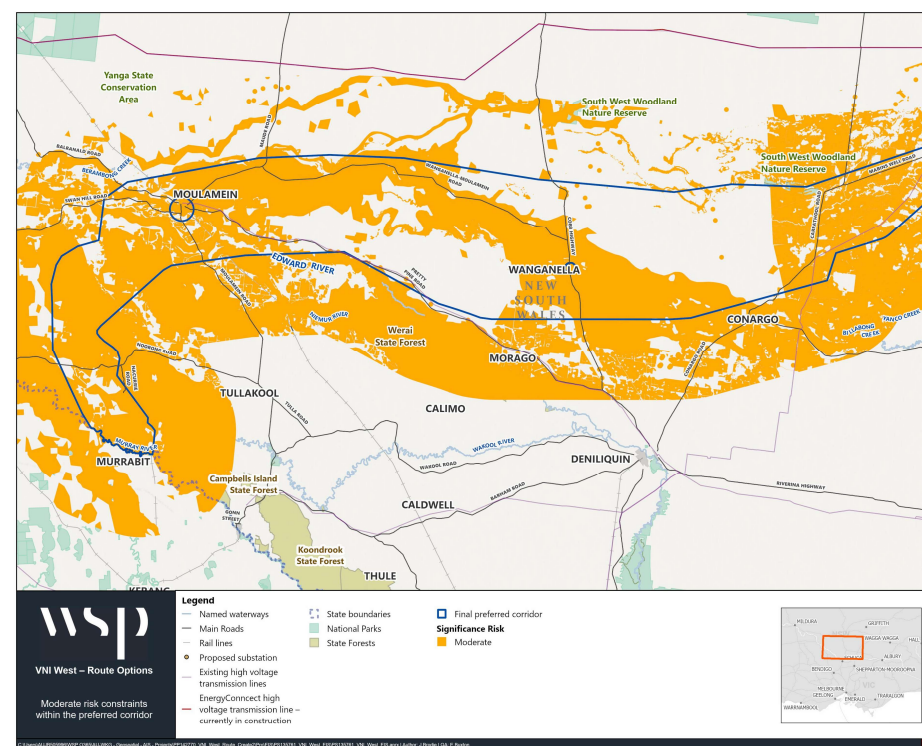
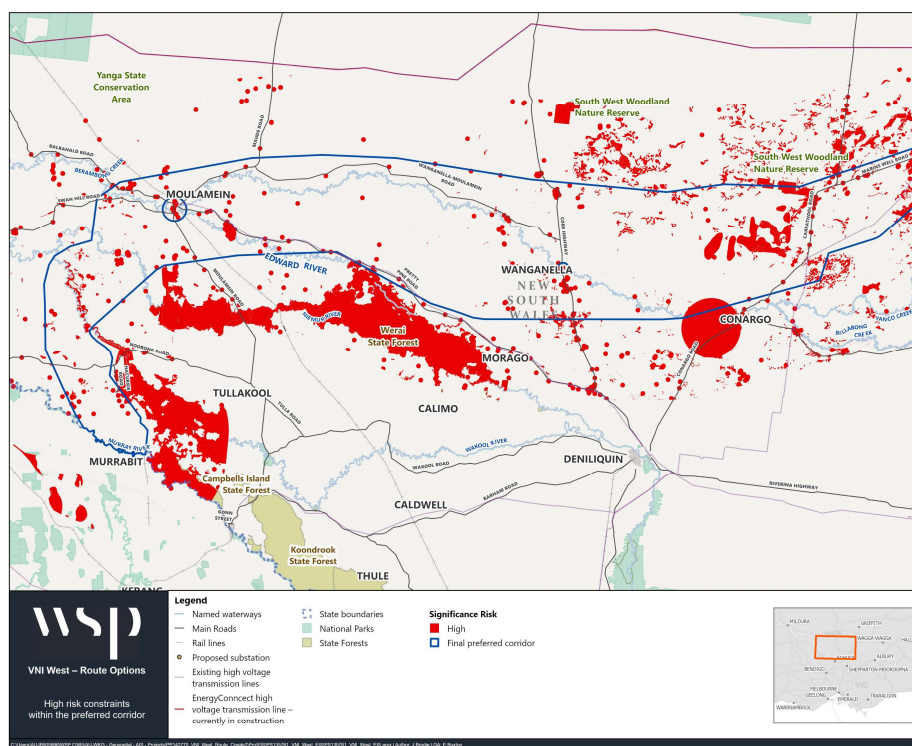
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- Should be considered as a preference for selecting and refining the transmission line corridor



- Feasible corridor, avoiding constraints and utilising opportunities
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Opportunities and constraints mapping



Transmission 101 – Q&A

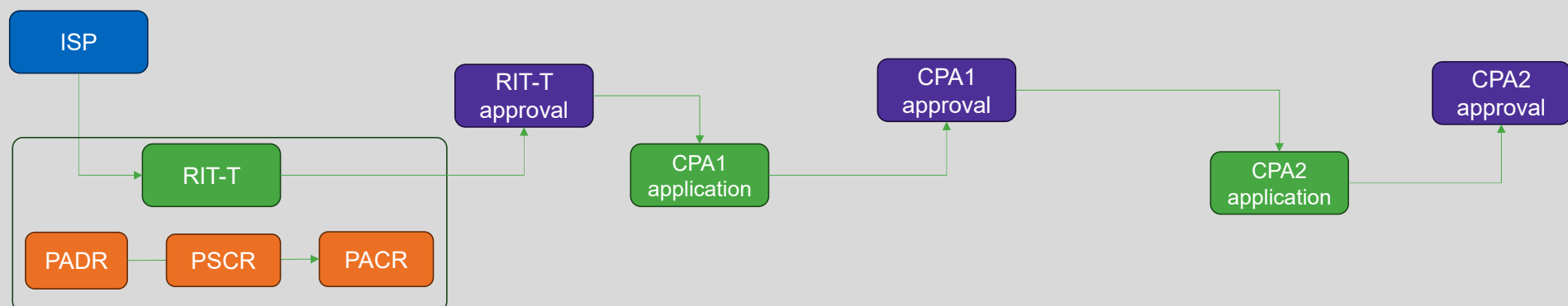
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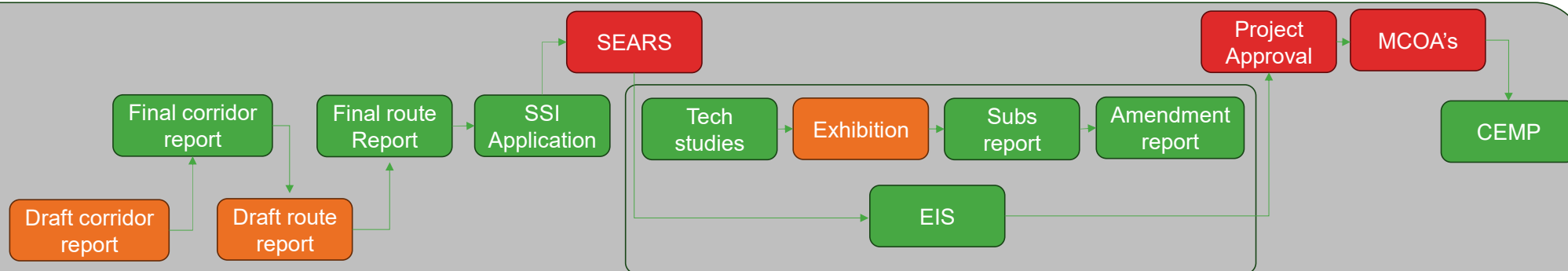


Engagement and approvals process

Regulatory approval



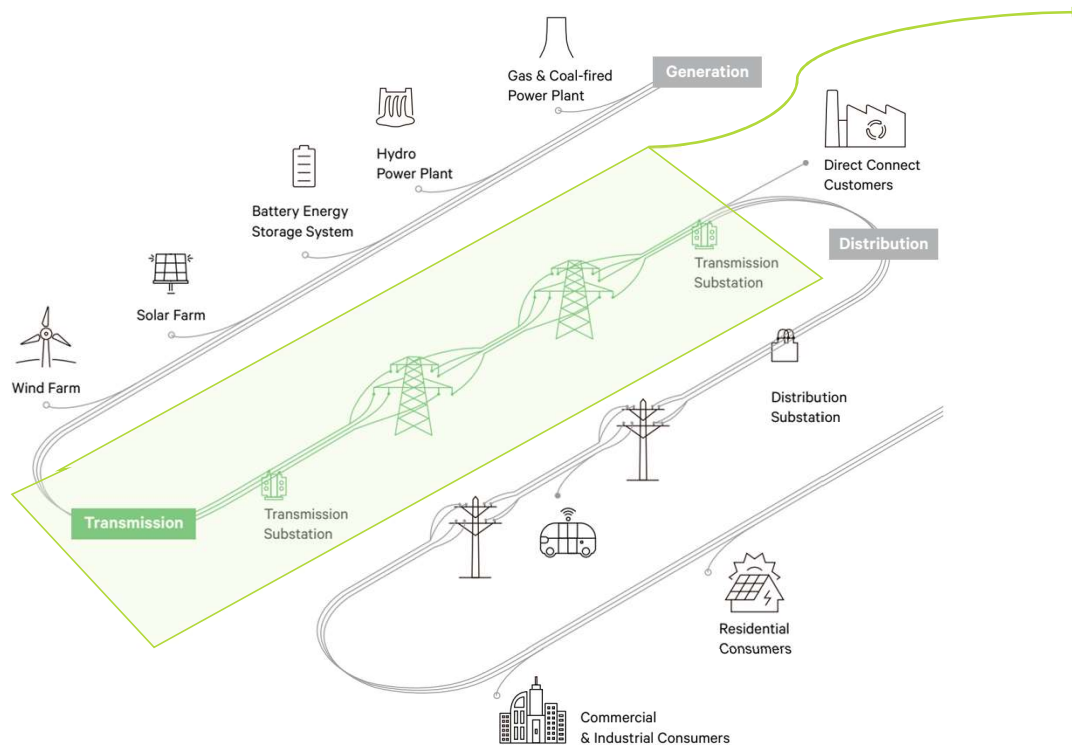
Planning approval



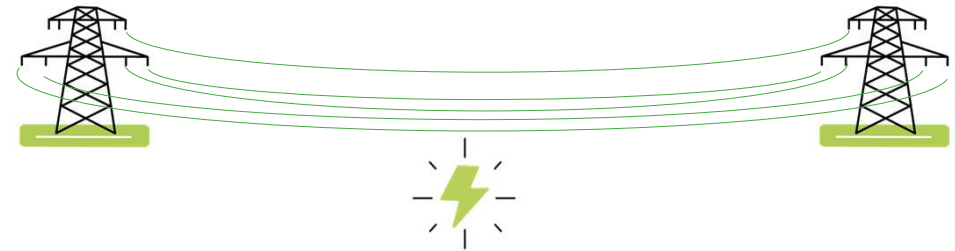
AEMO AER DPIE Transgrid Consultation

Where transmission fits in the system

Electricity Supply Chain



Safe, Reliable & Secure Transmission



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The Environmental Assessment Process

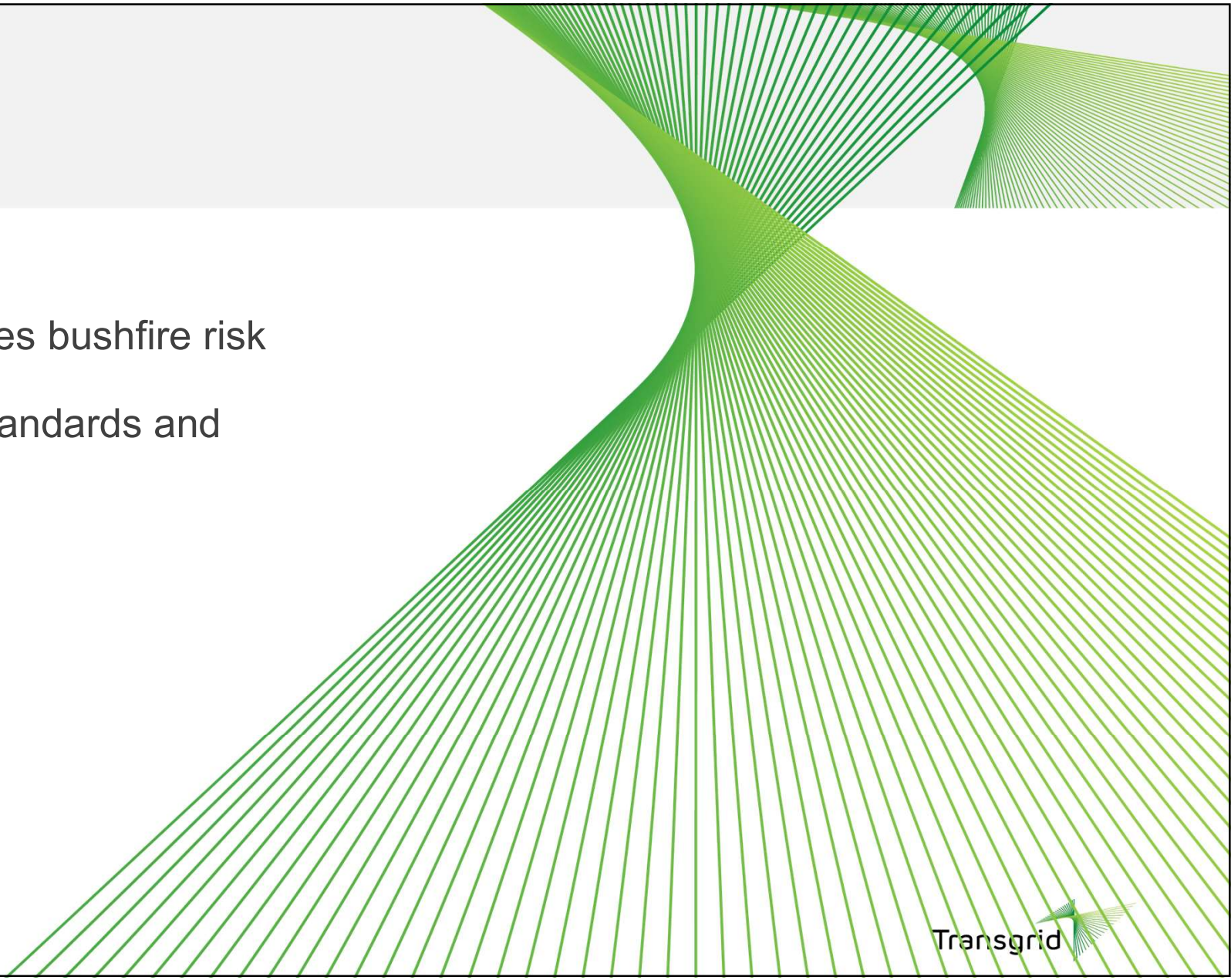
Geoff Hudson, Environment Manager

Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



An abstract graphic composed of numerous thin, green lines that originate from a central point and fan outwards, creating a sense of movement and depth. The lines are arranged in a way that they appear to be part of a larger, curved structure, possibly representing a stylized 'S' or a series of overlapping planes. The overall effect is a dynamic and modern visual element.

How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
Compliance Manager

Compliance & Risk Approach

Compliance Instruments

Electricity Supply (Safety and Network Management) Regulation 2014

A network operator must have a safety management system in place that is in accordance with AS 5577; and addresses the **management of bushfire risk** relating to assets capable of initiating a bushfire.

AS 5577 Electricity Network Safety Management

The Standard exists for the support of:

- the **safety of the public**, and persons near or working on the network
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- safety aspects arising from the loss of electricity supply.

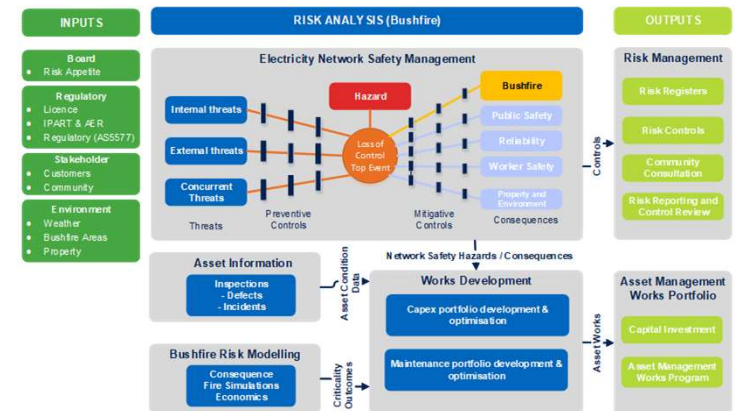
Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
- Incorporates appropriate **oversight and reporting** committees for performance tracking and continuous improvement.
- System effectiveness is frequently assured through internal and external **auditing**.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

Our inspection programs identify high priority asset defects based on failure consequences prior to season commencement to help mitigate bushfire risks, this includes:

1. Vegetation Management

- **Ground easement inspection** and **vegetation management** - ensures clearances to transmission lines are maintained prior to the next maintenance cycle
- Annual **LiDAR inspections** prior to the bushfire season – ensures unexpected growth or intrusions are identified and managed between routine inspections
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- Annual **ground-based inspection** of the transmission line structures with the highest potential bushfire risk.
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Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

- Scope and prioritisation is based on **asset condition and relative bushfire and public safety risk** at each location on the network
- Projects involve:
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Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

Phoenix bushfire risk models are current and operational.

Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

Insight: Aims to provide a high degree of assurance our assets do not present bushfire risks prior to season commencement.

Detection and monitoring

Network Operations and field crews have adequate situational awareness of emerging fire events.

Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

Emergency Response & Coordination

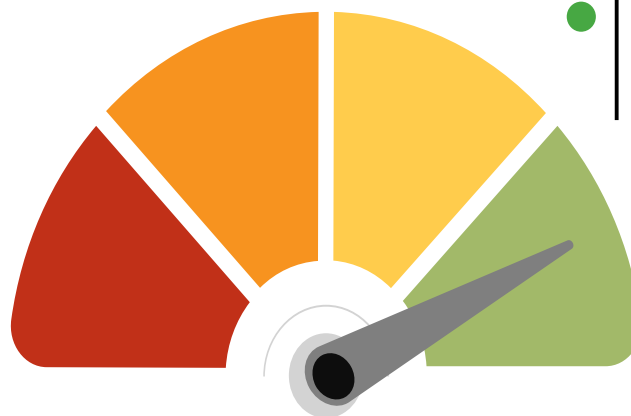
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Internal teams aware and ready to widely communicate commencement of bushfire danger periods.

Insight: Provides broad situational awareness to all staff.



Overall Assessment

Working with RFS

Transgrid maintains engagement with external stakeholders and specifically RFS via:

Bushfire Management Committees (BFMC)

Our staff attend BFMC meetings typically as observers and subject matter experts regarding Transmission electricity infrastructure

Disconnection / Safe Access

Our operators coordinate RFS electricity disconnection requests during emergencies, affording safe access for firefighting activities.

Requests are considered against wider network security impacts of taking transmission lines out of service.

RFS ICON

We utilise RFS ICON to provide real-time situational awareness of threats, and access to established local emergency centres.

Agency Coordination

Bi-directional liaison with EUSFAC / emergency services / DNSPs regarding network threats and emergency situational awareness.

EUSFAC are the primary contact point for Transgrid during significant events, who then functionally coordinate with fire agencies.

Liaison Officers (LOs)

During fire emergencies our staff are often deployed to act as LOs during bushfires. They coordinate information regarding asset criticality, impacted infrastructure, and assist Transgrid field staff arrange fire ground access.

Regular Engagements

- Annual summer preparedness meetings with EUSFAC & RFS
- Quarterly EUSFAC sub-committee meetings



**Energy and Utility
Services Functional Area
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Community Benefits

Joel Annett, Community and
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Community Investment Program

Ensure impacted communities receive substantial benefits that adequately address social legacy expectations.

As part of VNI West Transgrid will make an investment in the local community.

CCG will play a role in guiding Transgrid on how to engage with the community to identify the opportunities.

Our Process

1. Engage and consult with the relevant internal and external stakeholders
2. Identify the need and the expected outcomes
3. Evaluate the different opportunities and streams
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Healthcare
Telecommunications
Education
Research
Resilience

NEXT STEPS

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Joel Annett, Community and
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This table is provided as draft for discussion purposes and remains subject to change. Transgrid is in discussions with local venues regarding availability.



Meeting close

Thank you for your time

1800 222 537

vniw@transgrid.com.au

www.transgrid.com.au/vniw



VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



Agenda

Time	Agenda item	Time allocated	Presenter
9:45 – 10:00	Morning tea	10 mins	
10:00 -10:05	Acknowledgement of Country	5 mins	Brendan Blakeley
10:05 – 10:20	Welcome, introductions and housekeeping and review of previous minutes	15 mins	Brendan Blakeley
10:20 – 10:35	Route Selection methodology: • Process and considerations • Hierarchy of constraints	15 mins	Jarryd Barton (WSP)
10:35 – 10:50	Transmission 101 – Q & A	15 mins	Joel Annett, Colin Mayer
10:50– 11:00	The Environmental Assessment process	10 mins	Geoff Hudson, Transgrid
11:00 -11:15	How Transgrid manages bushfire risk and its assets	15 mins	Adam Hoare, Transgrid
11:15- 11:30	Community Benefit – Framework and engagement	15 mins	Joel Annett
11:30- 11:45	VNI West Consultation and engagement program	15 mins	Nathan Menser and Joel Annett
11:45 – 12:00	Wrap up and close	15 Mins	Brendan Blakeley

Review of Meeting 1 minutes and action items

Action items

Agenda item	Description	Person responsible	Status
4. Preferred Corridor report: Key Themes	- Summary on how Transgrid arrived at the preferred corridor for VNIW - Send Draft Corridor report to group - Provide group with Departmental description of CSSI	Secretary/Nathan Menser	Completed
6. Route selection	CCG members asked for feedback on the route selection assessment criteria	CCG	No feedback received
8. Meeting schedule	Proposed dates and formats to be sent to CCG for upcoming meetings	Secretary	Completed
Questions on notice	Can Preferred Corridor Report submissions be made available to the group? Cultural heritage studies, particularly the predictive modelling, will these be made available to the CCG?	Secretary/Joel Annett/Geoff Hudson	Completed

Route selection methodology

Jarryd Barton
Principal Environmental Planner, WSP



Route selection process

2023

2024



Typically between 10 and 50 kilometres (depending on project scale)



Typically between one and 10 kilometres wide



Typically up to around one kilometre wide



Typically up to 200 metres wide (with the potential for wider area(s) up to one or more kilometres wide where further investigation may be required)

Route options assessment methodology - Current progress

- Review and update of constraint and opportunity criteria
 - Testing and agreement of the technical, environmental and social/community criteria
- Identification of preliminary route options
 - With a focus on the high and moderate potential impact constraints, a series of preliminary routes have been identified
 - This was undertaken both through visually analysing the constraint mapping of high and moderate potential impact constraints and identifying best-fit alignments which were readily apparent from the mapping.
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- Ecology
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- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
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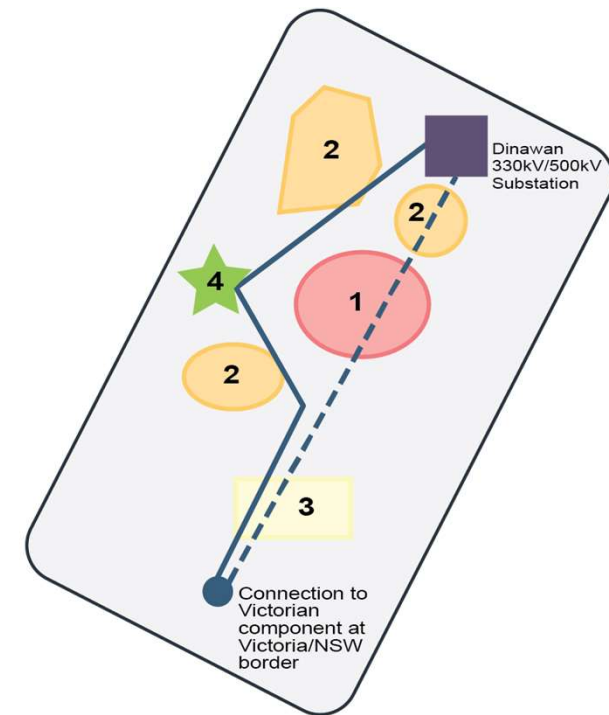
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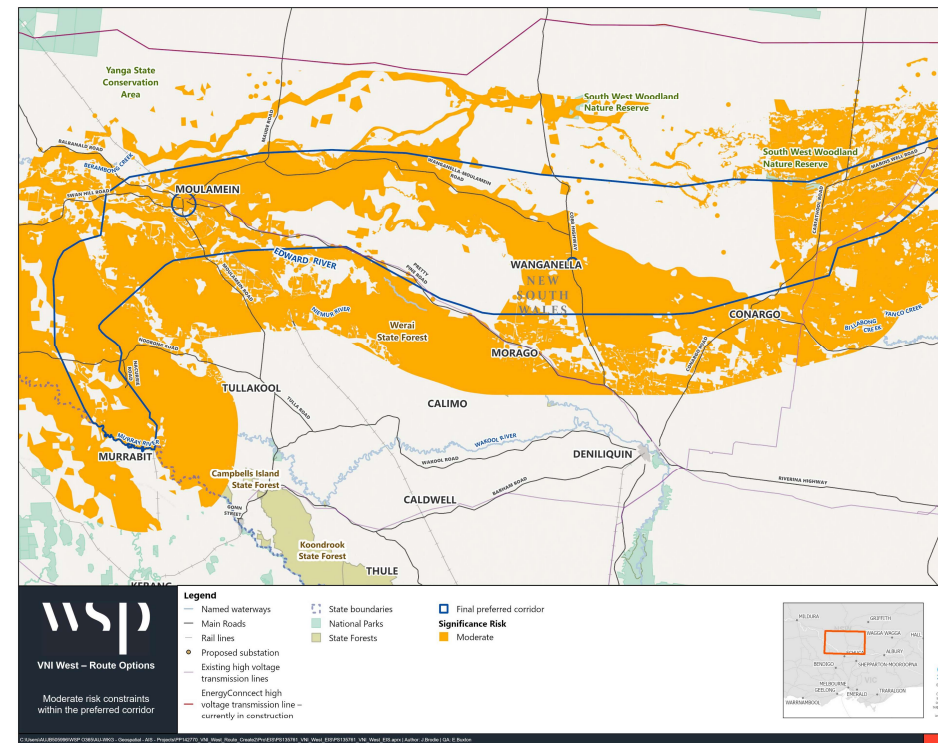
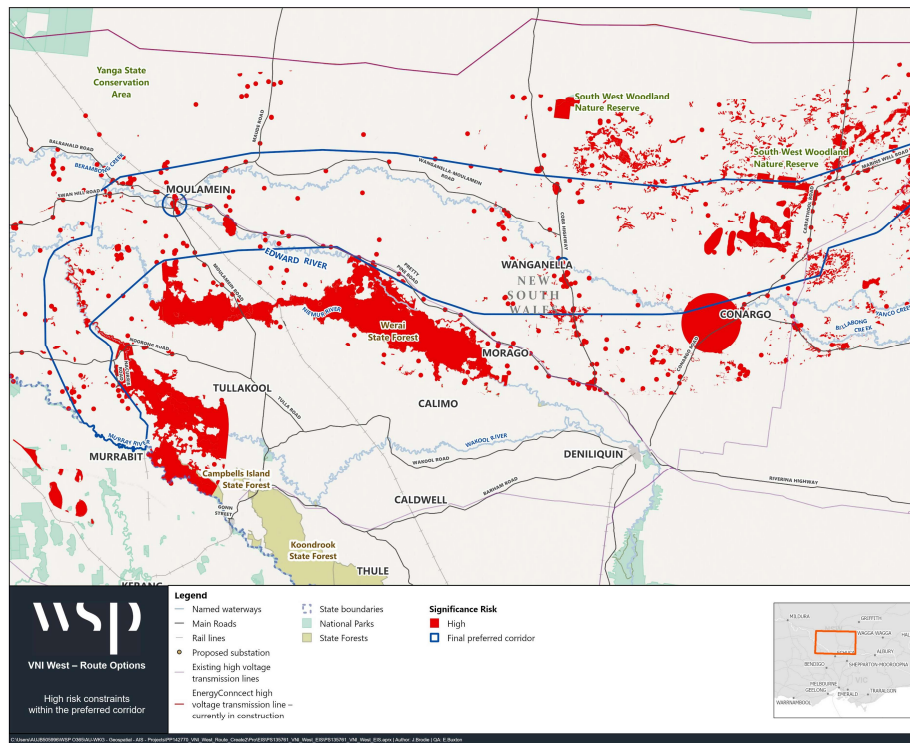
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Opportunities and constraints mapping



Transmission 101 – Q&A

Joel Annett and Colin Mayer

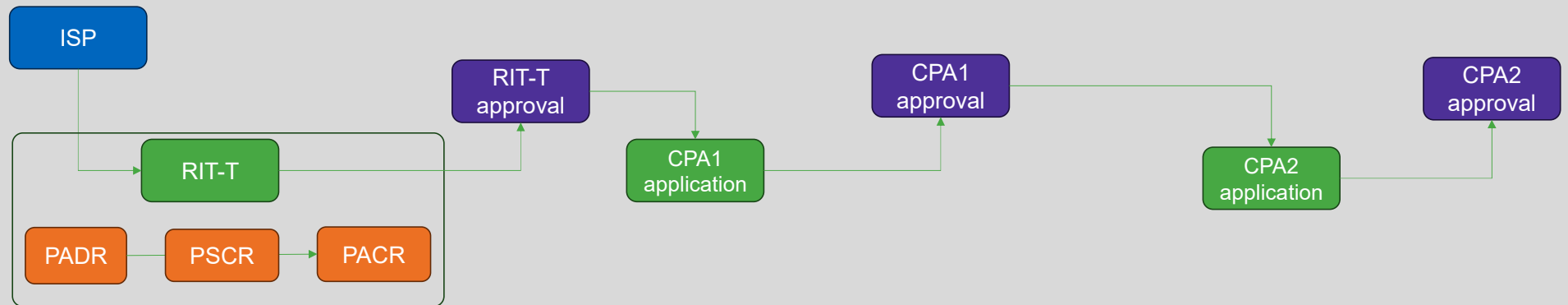


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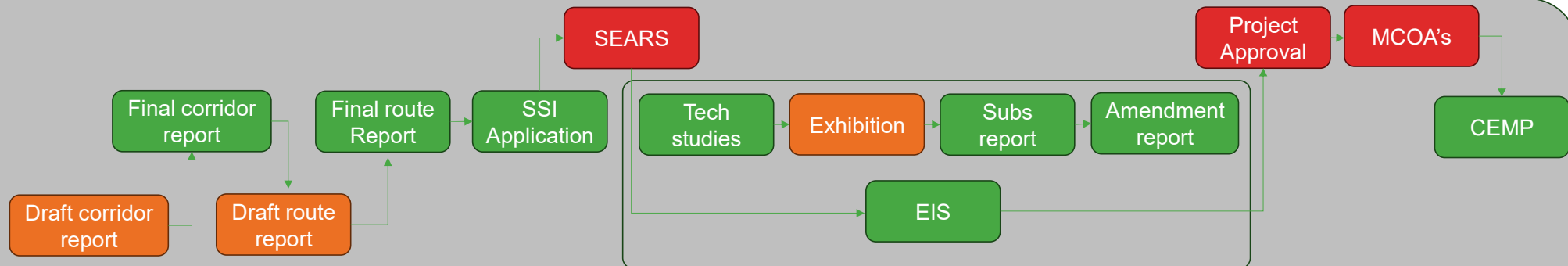


Engagement and approvals process

Regulatory approval



Planning approval



AEMO

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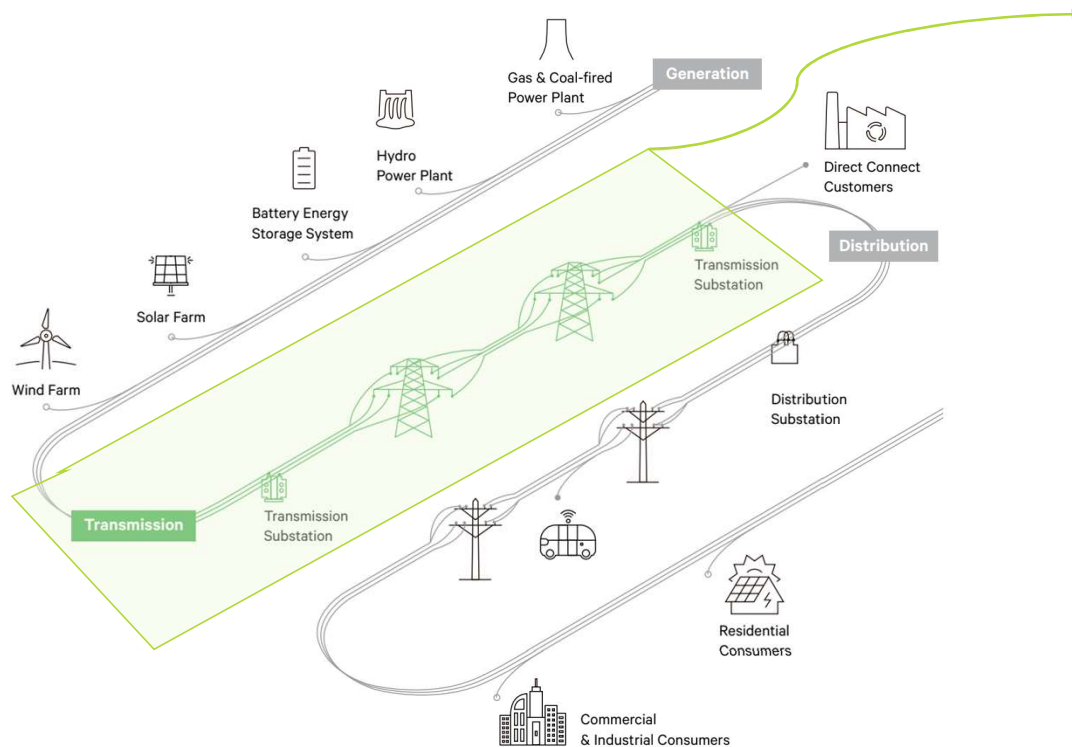
DPIE

Transgrid

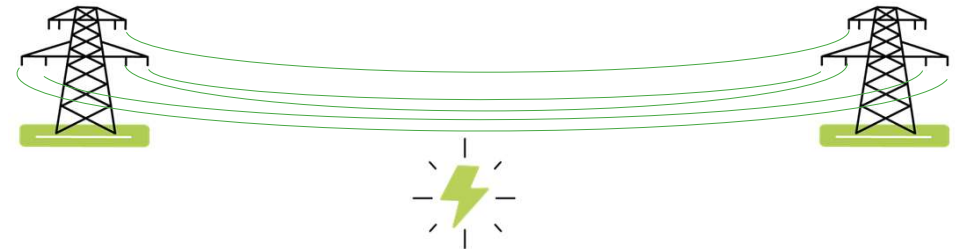
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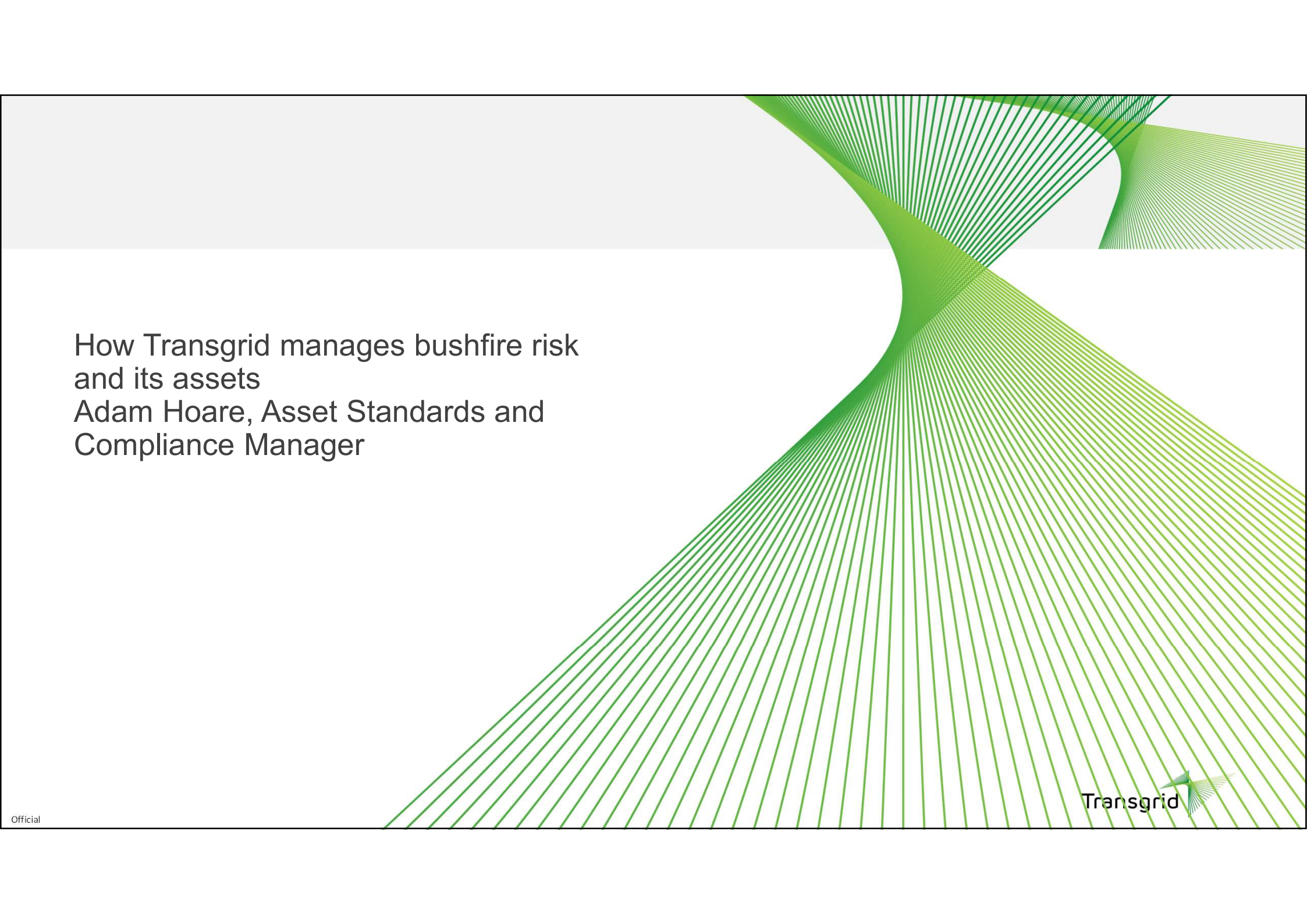
Geoff Hudson, Environment Manager

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Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets Adam Hoare, Asset Standards and Compliance Manager

Compliance & Risk Approach

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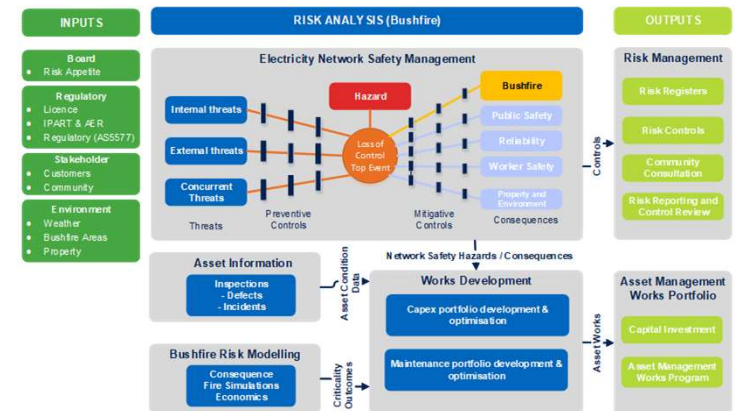
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Risk Approach



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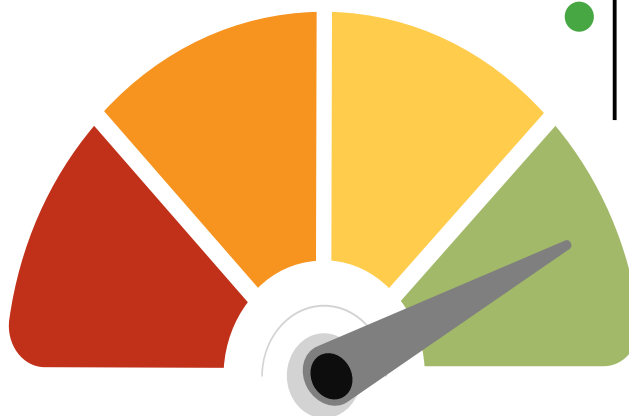
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Thank you for your time

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

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We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

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Route selection process

2023

2024



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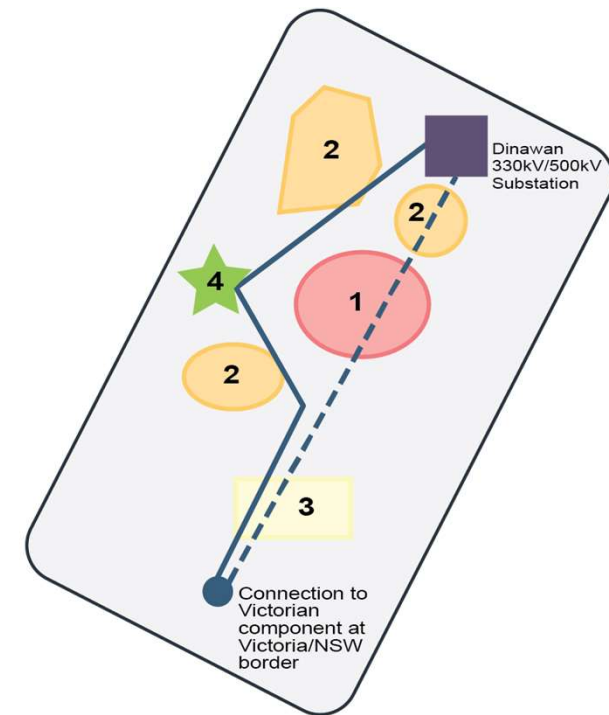
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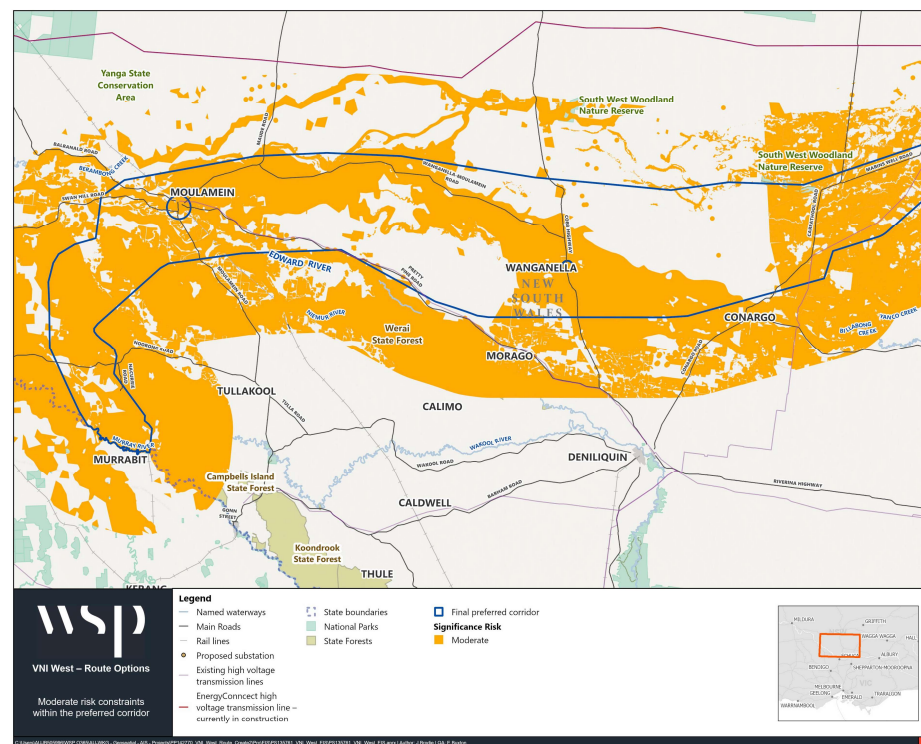
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Transmission 101 – Q&A

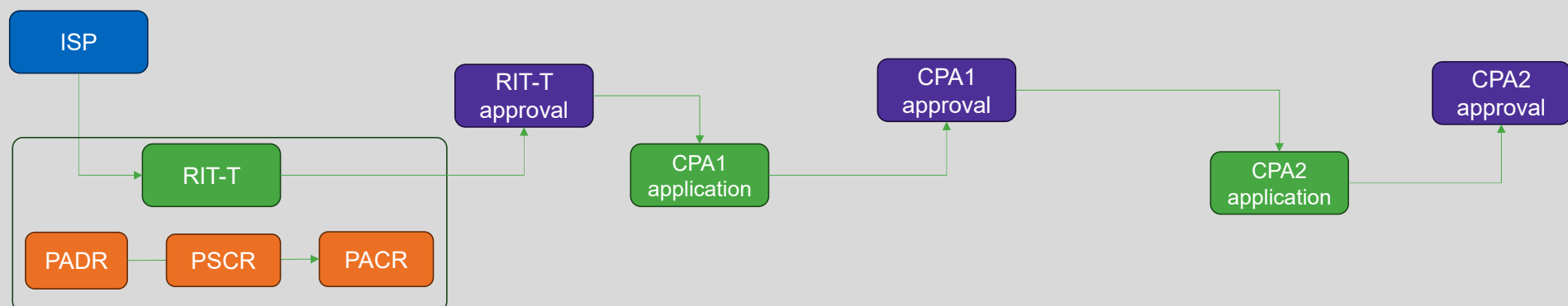
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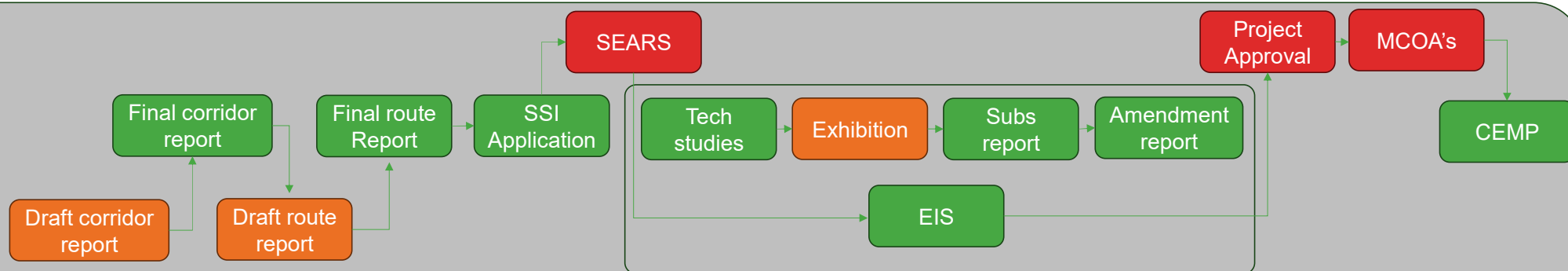


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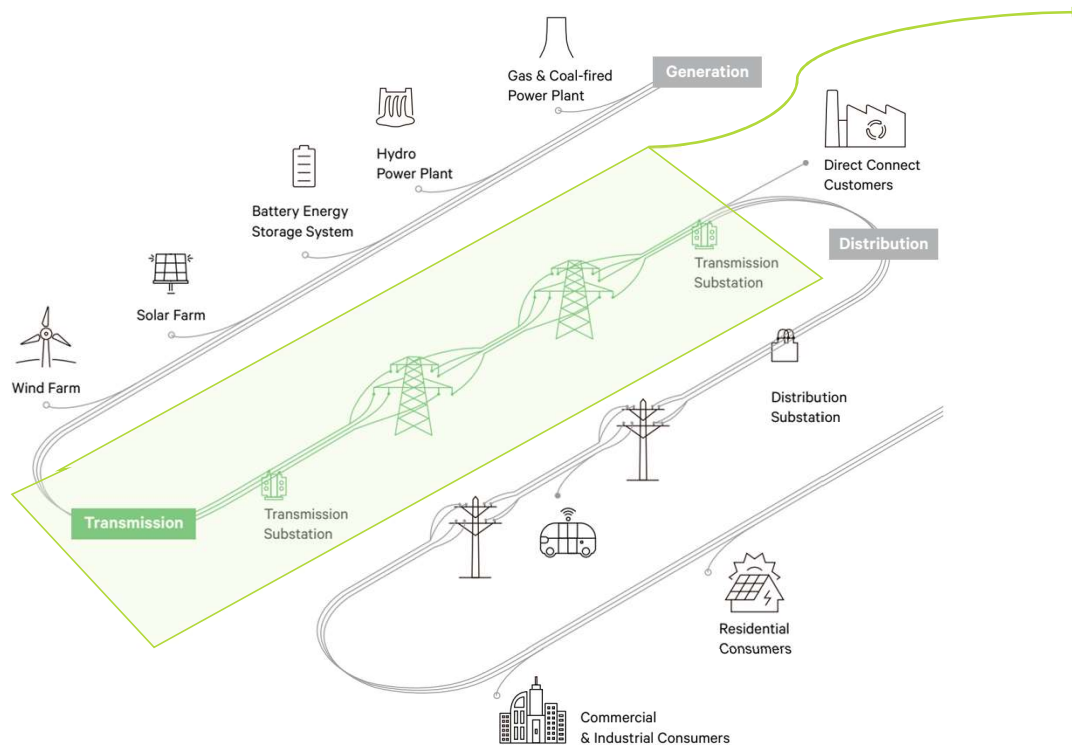
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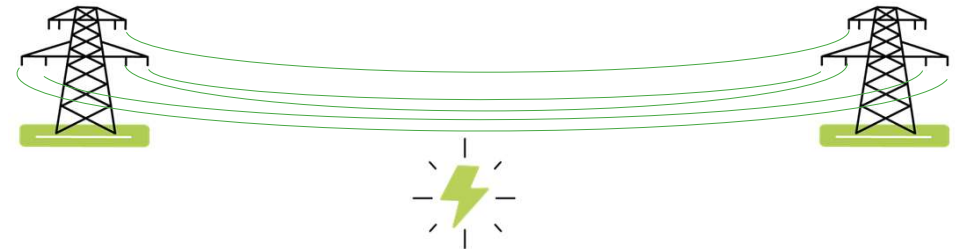
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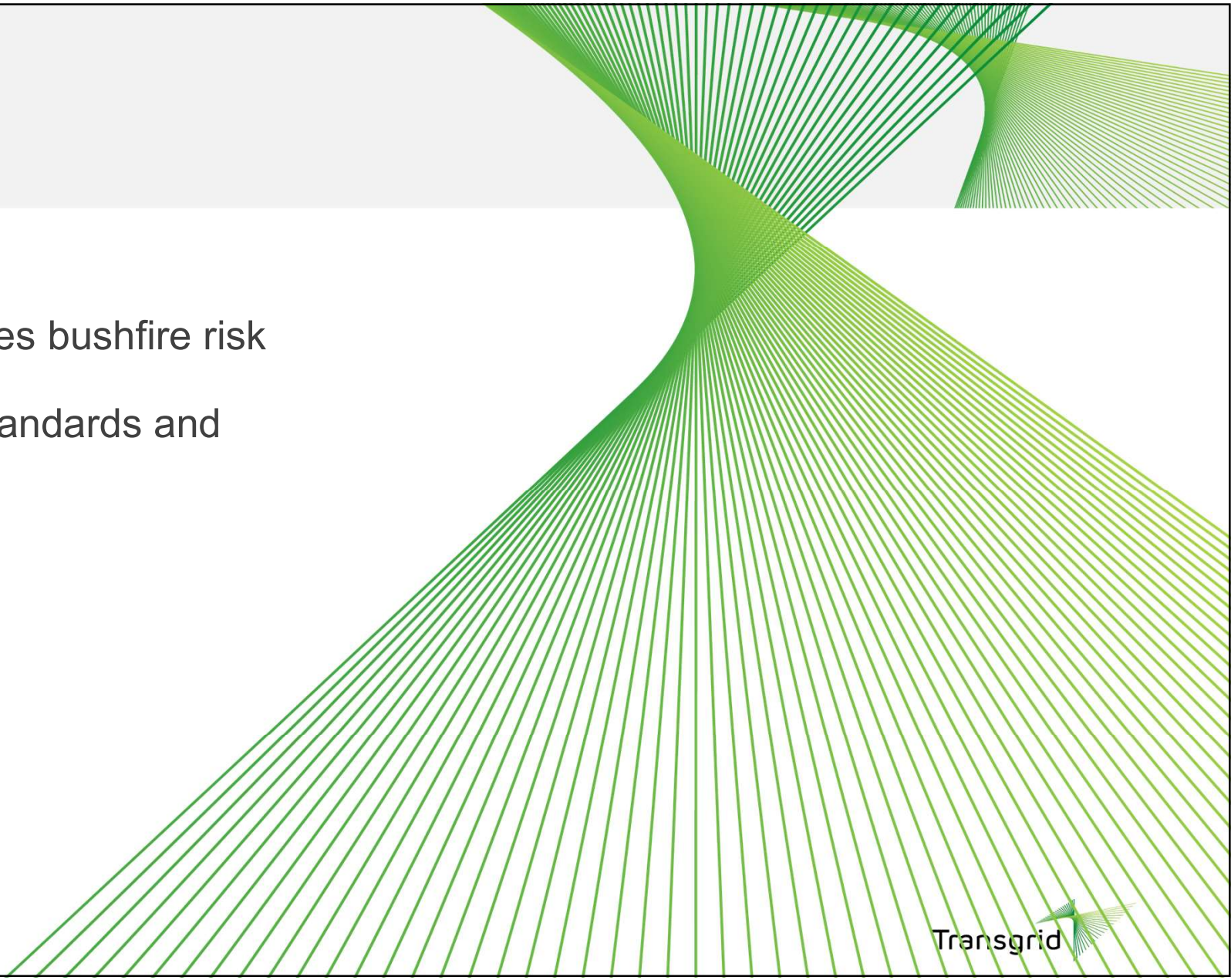
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Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
Compliance Manager

Compliance & Risk Approach

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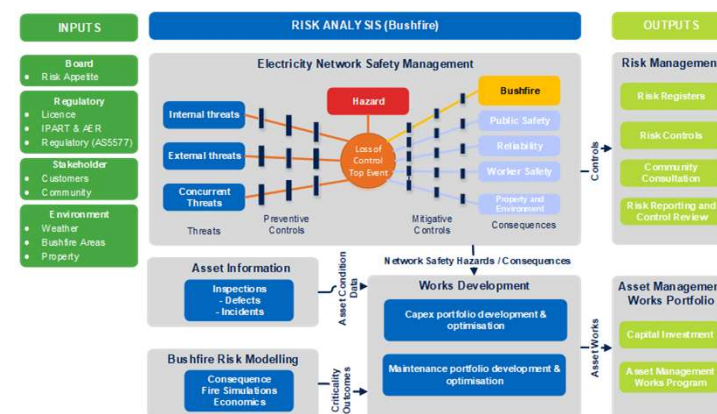
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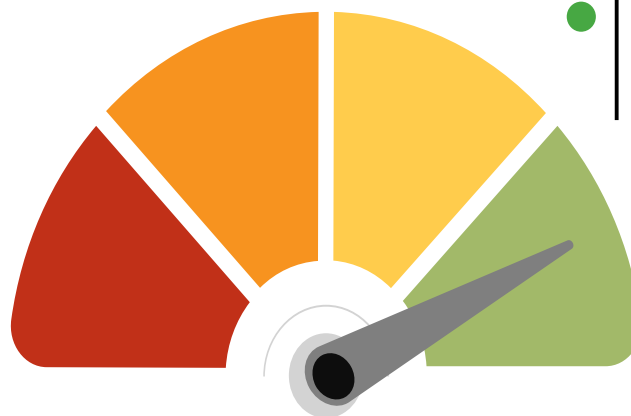
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Requests are considered against wider network security impacts of taking transmission lines out of service.

RFS ICON

We utilise RFS ICON to provide real-time situational awareness of threats, and access to established local emergency centres.

Agency Coordination

Bi-directional liaison with EUSFAC / emergency services / DNSPs regarding network threats and emergency situational awareness.

EUSFAC are the primary contact point for Transgrid during significant events, who then functionally coordinate with fire agencies.

Liaison Officers (LOs)

During fire emergencies our staff are often deployed to act as LOs during bushfires. They coordinate information regarding asset criticality, impacted infrastructure, and assist Transgrid field staff arrange fire ground access.

Regular Engagements

- Annual summer preparedness meetings with EUSFAC & RFS
- Quarterly EUSFAC sub-committee meetings



**Energy and Utility
Services Functional Area
(EUSFA)**



Community Benefits

Joel Annett, Community and
Stakeholder Manager



Community Investment Program

Ensure impacted communities receive substantial benefits that adequately address social legacy expectations.

As part of VNI West Transgrid will make an investment in the local community.

CCG will play a role in guiding Transgrid on how to engage with the community to identify the opportunities.

Our Process

1. Engage and consult with the relevant internal and external stakeholders
2. Identify the need and the expected outcomes
3. Evaluate the different opportunities and streams
4. Engage with potential implementing partners

Healthcare
Telecommunications
Education
Research
Resilience

NEXT STEPS

Community engagement
Joel Annett, Community and
Stakeholder Manager
Nathan Menser, Community and
Stakeholder Lead



Engaging on the Draft Route Report

Publish Draft Route Report
29 Jan 2024

Engage and seek feedback

Publish Preferred Route
Report - March 2024

Monday	Tuesday	Wednesday	Thursday	Friday
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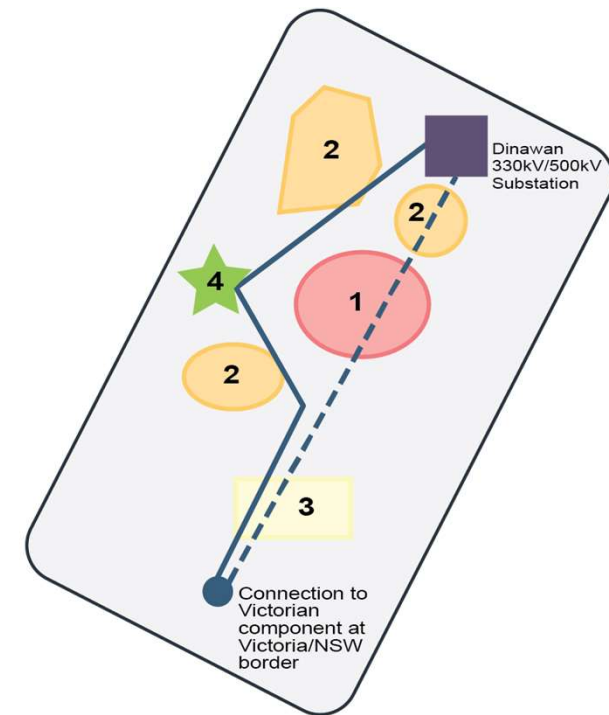
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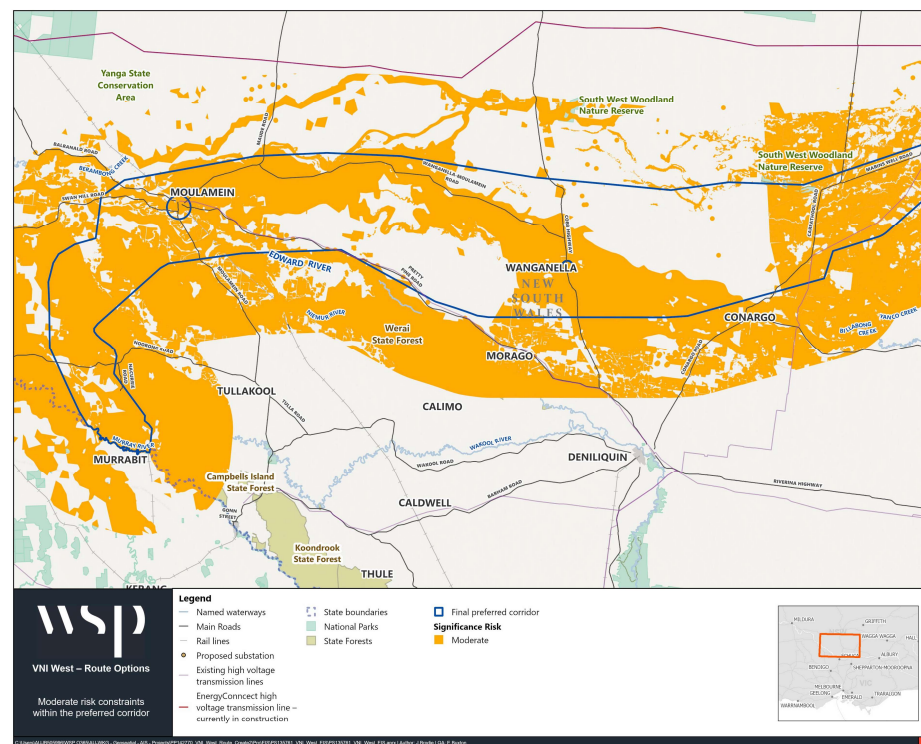
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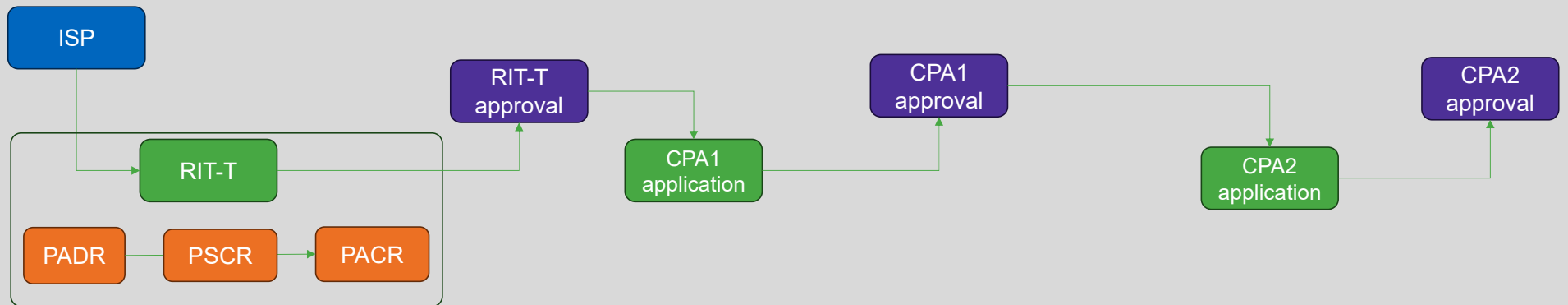
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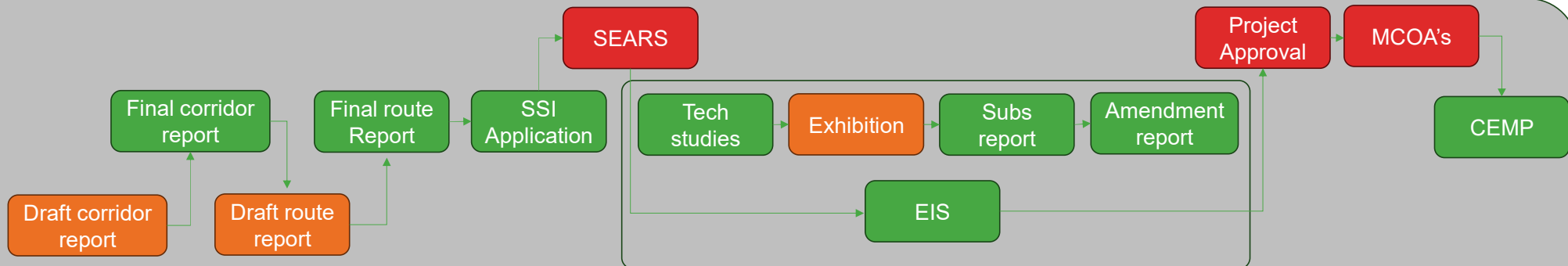


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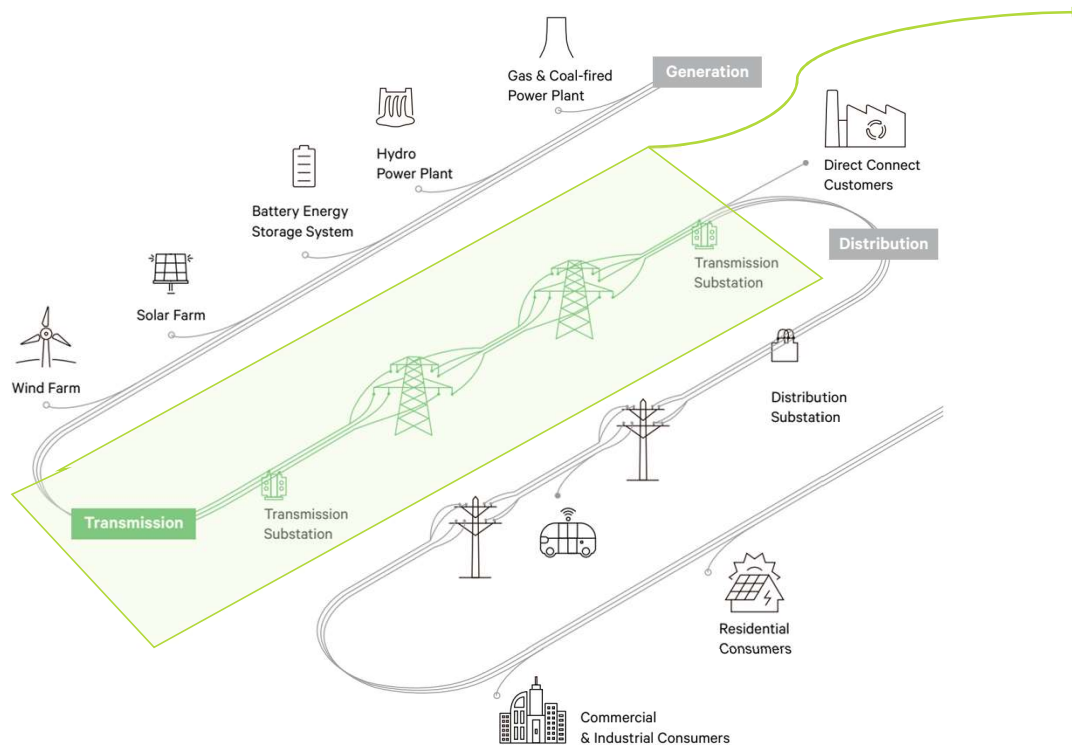
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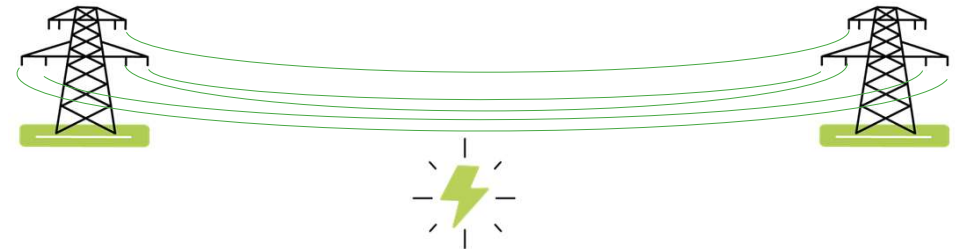
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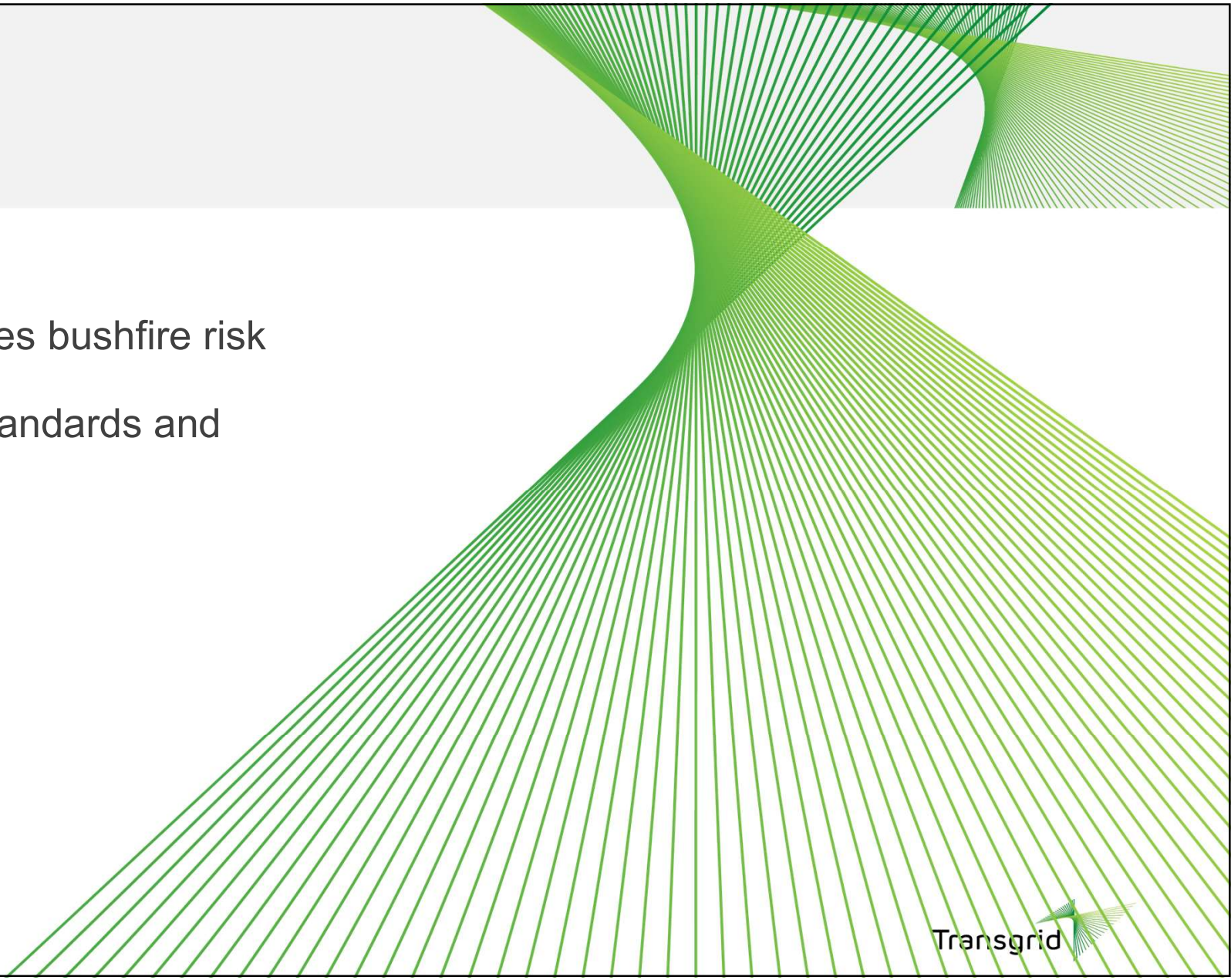
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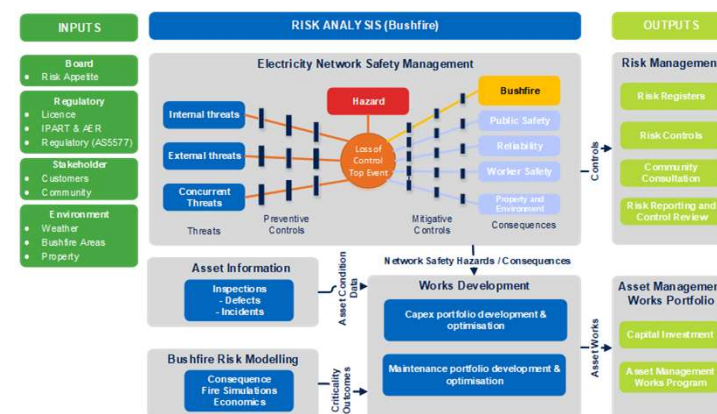
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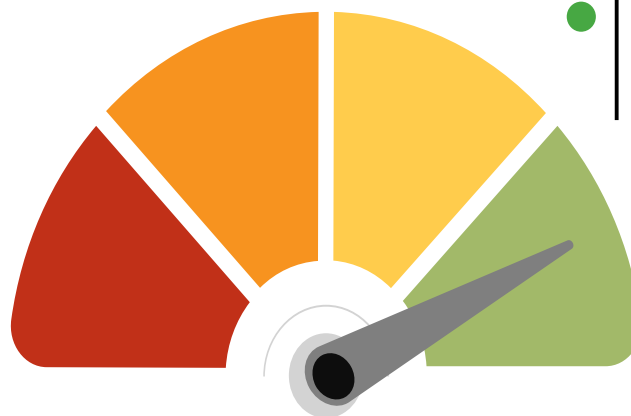
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**Energy and Utility
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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

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Route selection process

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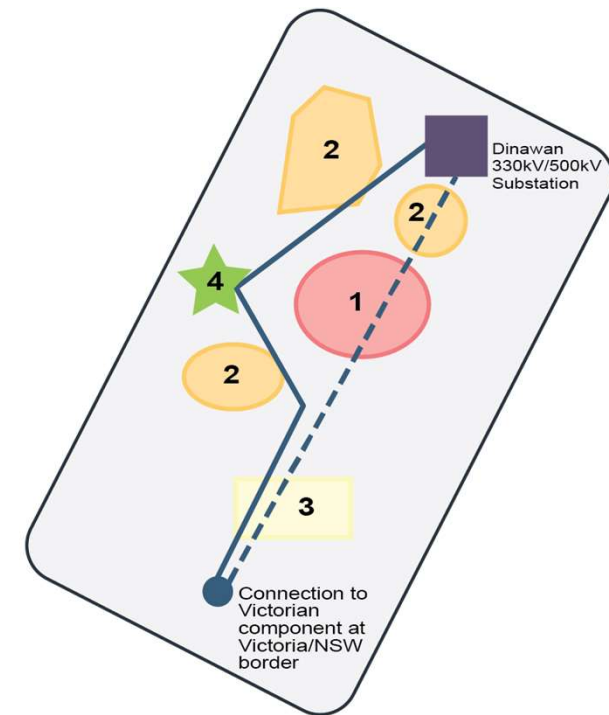
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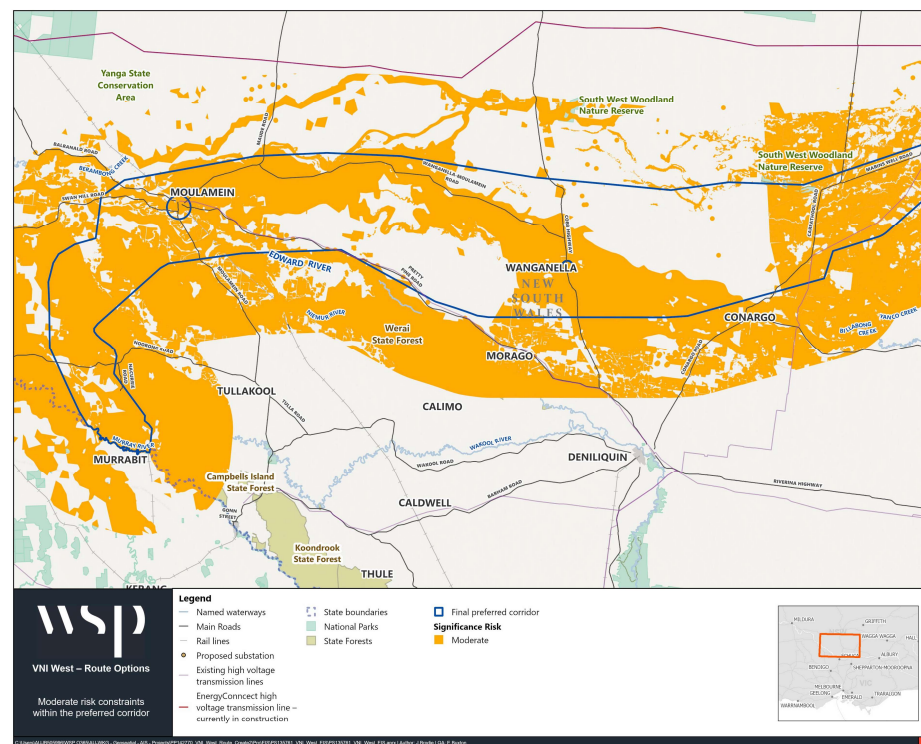
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Transmission 101 – Q&A

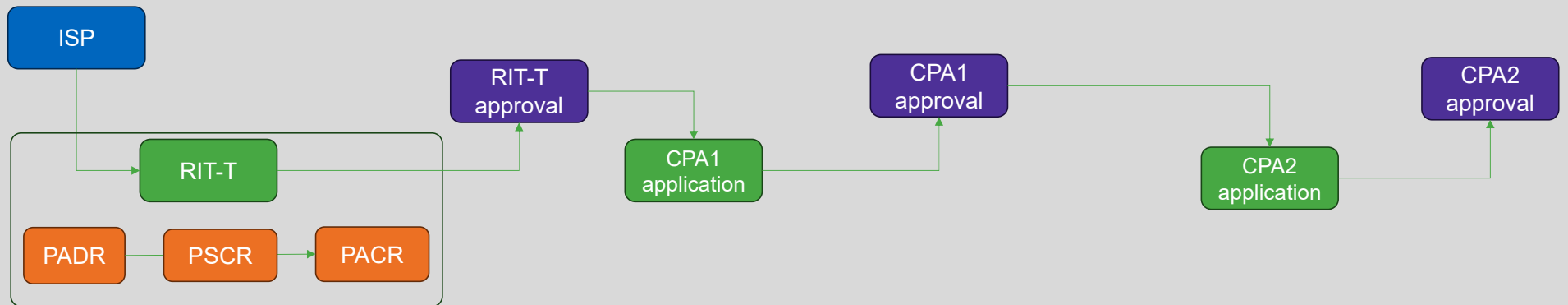
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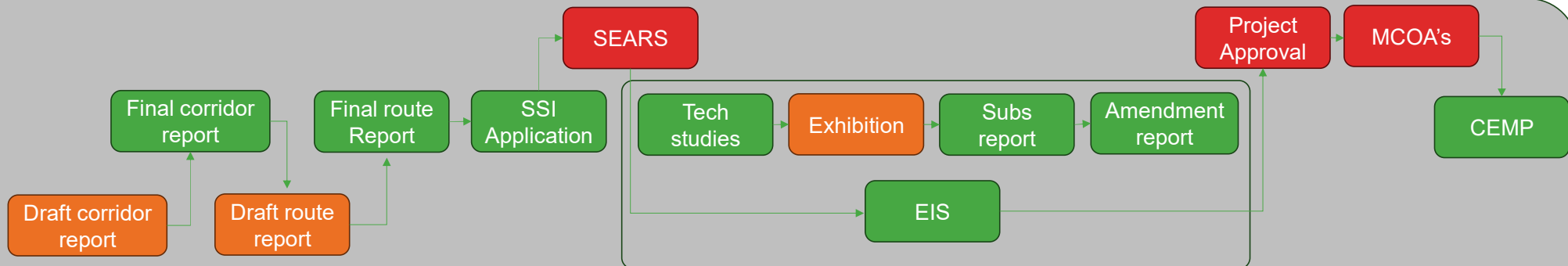


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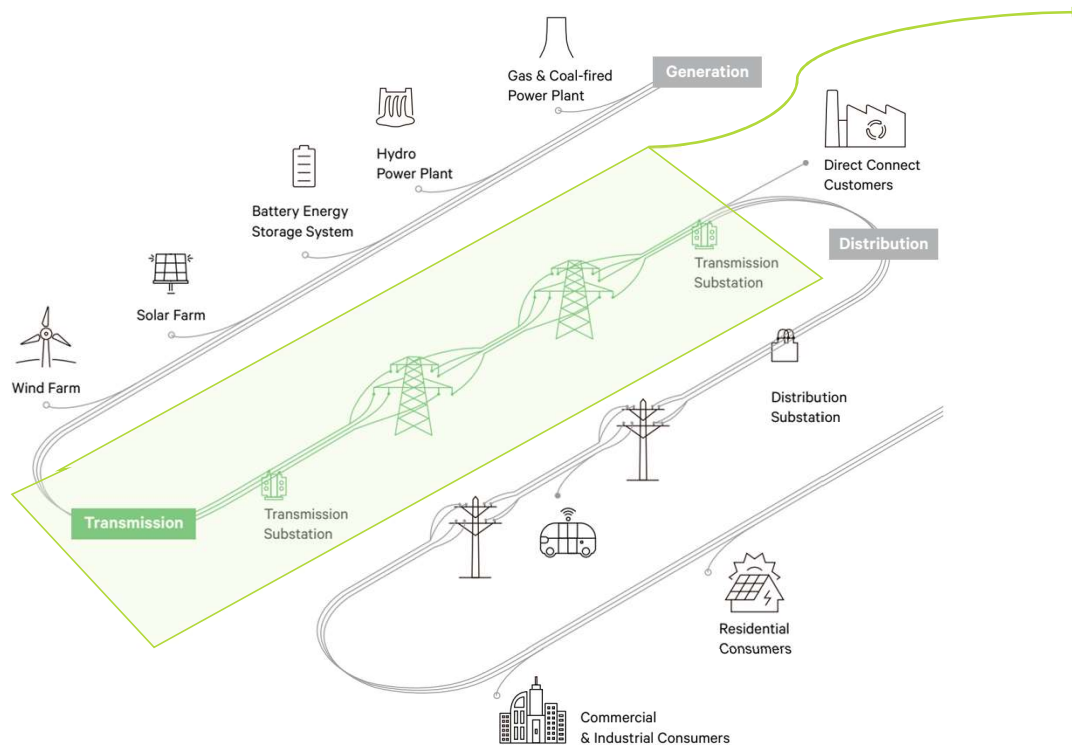
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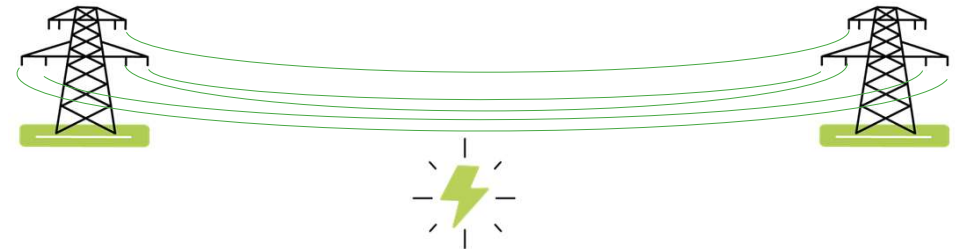
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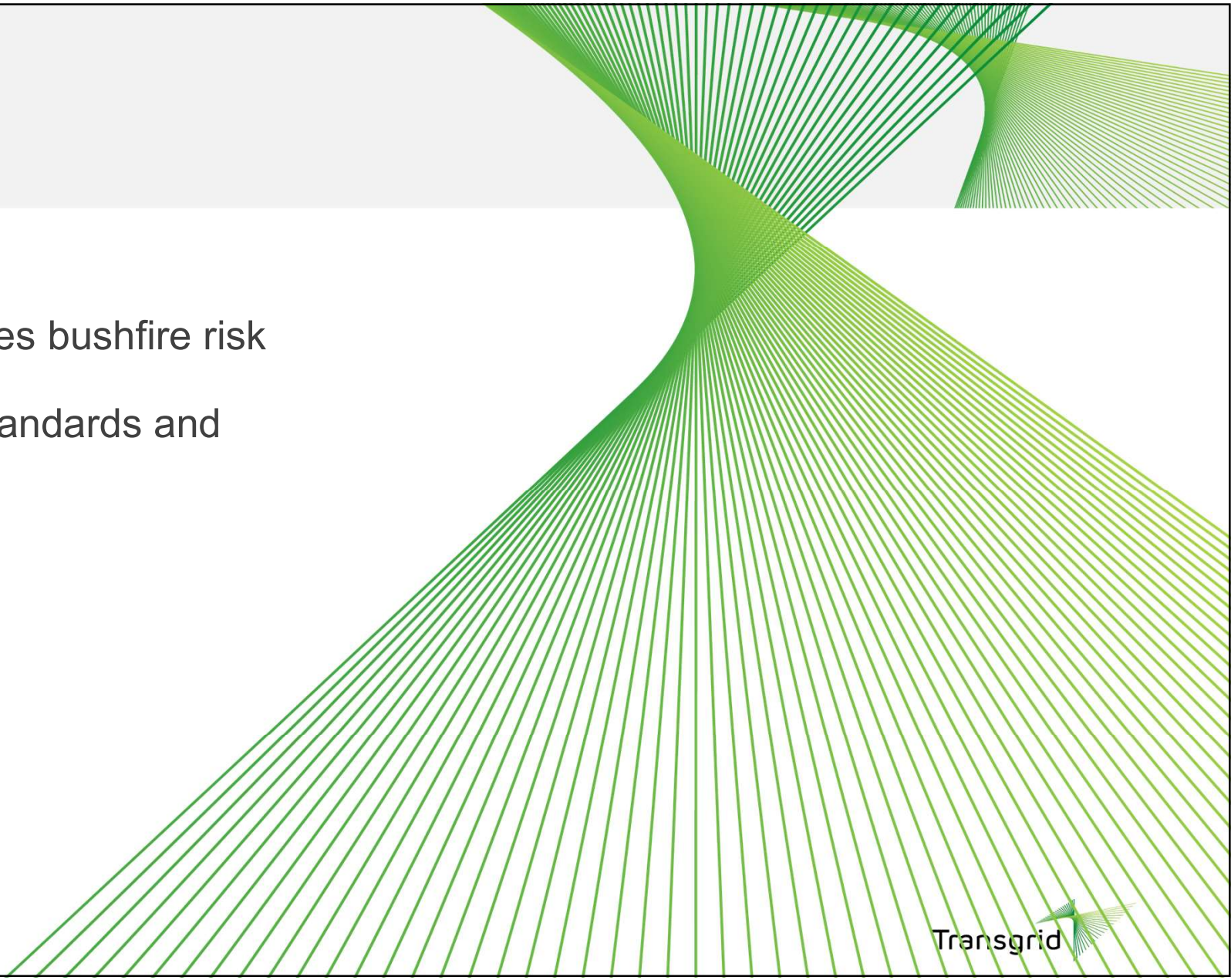
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Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



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How Transgrid manages bushfire risk and its assets

Adam Hoare, Asset Standards and
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Compliance & Risk Approach

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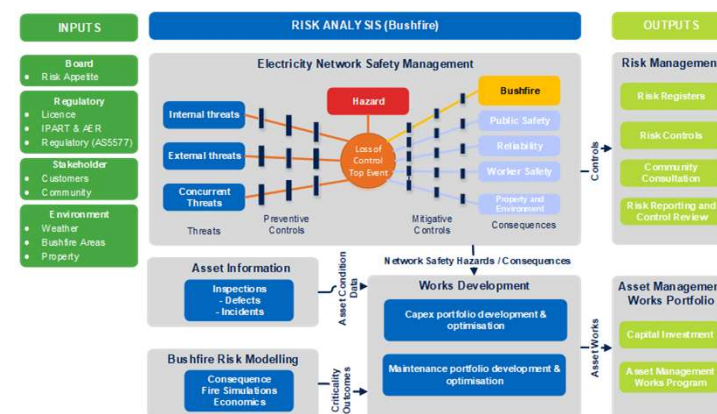
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Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
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- System effectiveness is frequently assured through internal and external **auditing**.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

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Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

- Scope and prioritisation is based on **asset condition and relative bushfire and public safety risk** at each location on the network
- Projects involve:
 - Targeted replacement/refurbishment of corroded fittings, insulators, steelwork, foundation, and conductor.
 - Targeted wood pole replacement with concrete/steel pole due to decay or termite damage.



Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

Phoenix bushfire risk models are current and operational.

Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

Insight: Aims to provide a high degree of assurance our assets do not present bushfire risks prior to season commencement.

Detection and monitoring

Network Operations and field crews have adequate situational awareness of emerging fire events.

Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

Continuity of Service

Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

Emergency Response & Coordination

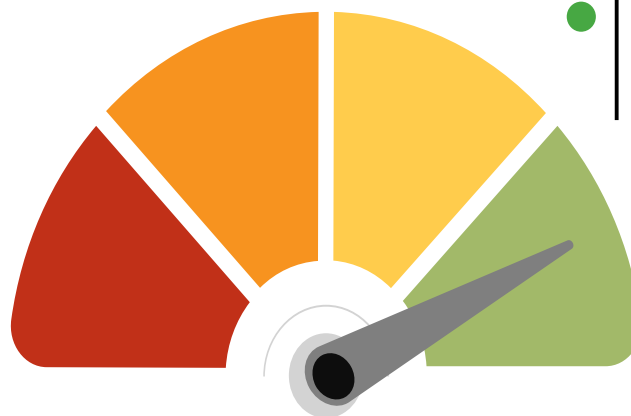
Emergency and Crisis Management teams are continually trained and exercised a major escalating bushfire scenario in May-23. Relevant stakeholders are actively involved in emergency service and industry coordination forums.

Insight: Business is trained and ready to respond to a developing emergency bushfire situation.

Internal communications

Internal teams aware and ready to widely communicate commencement of bushfire danger periods.

Insight: Provides broad situational awareness to all staff.



Overall Assessment

Working with RFS

Transgrid maintains engagement with external stakeholders and specifically RFS via:

Bushfire Management Committees (BFMC)

Our staff attend BFMC meetings typically as observers and subject matter experts regarding Transmission electricity infrastructure

Disconnection / Safe Access

Our operators coordinate RFS electricity disconnection requests during emergencies, affording safe access for firefighting activities.

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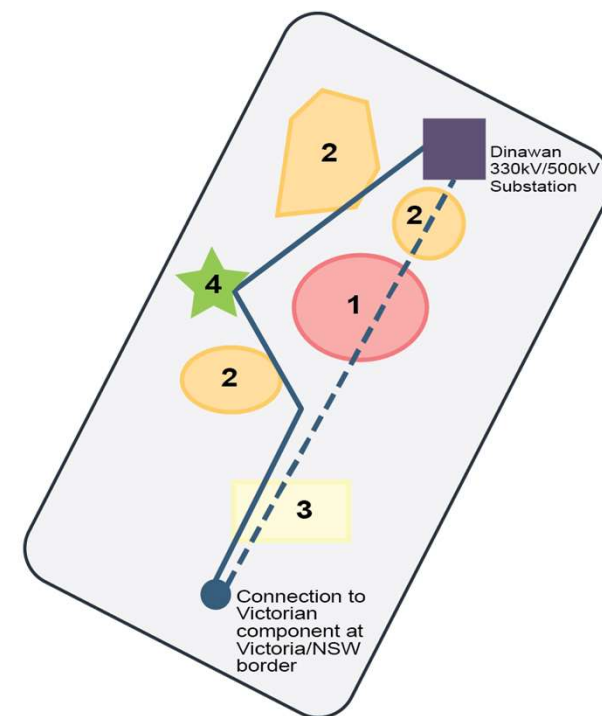
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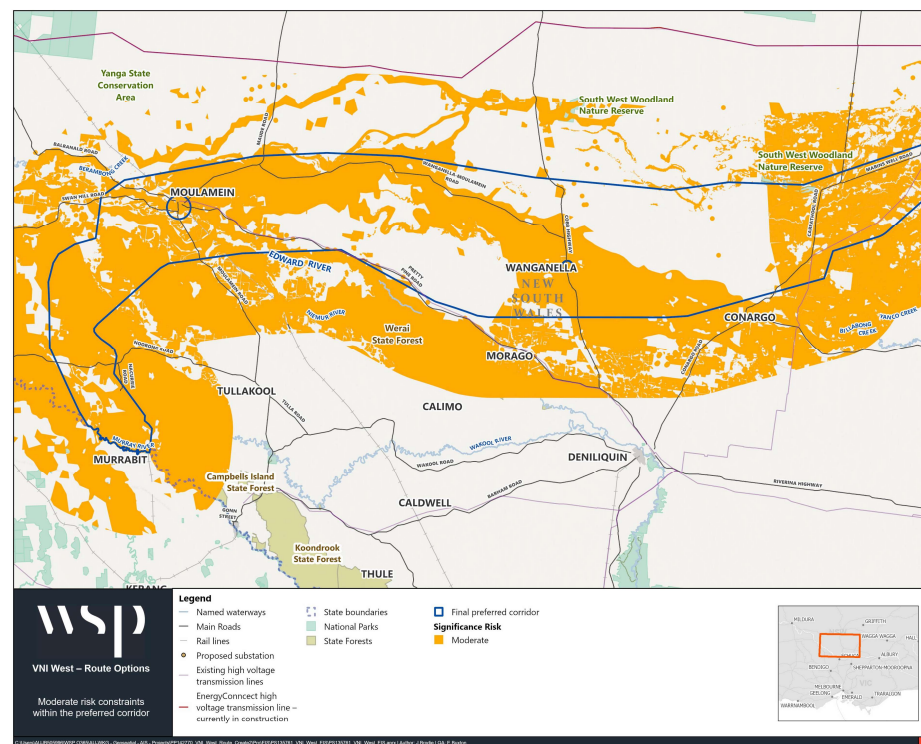
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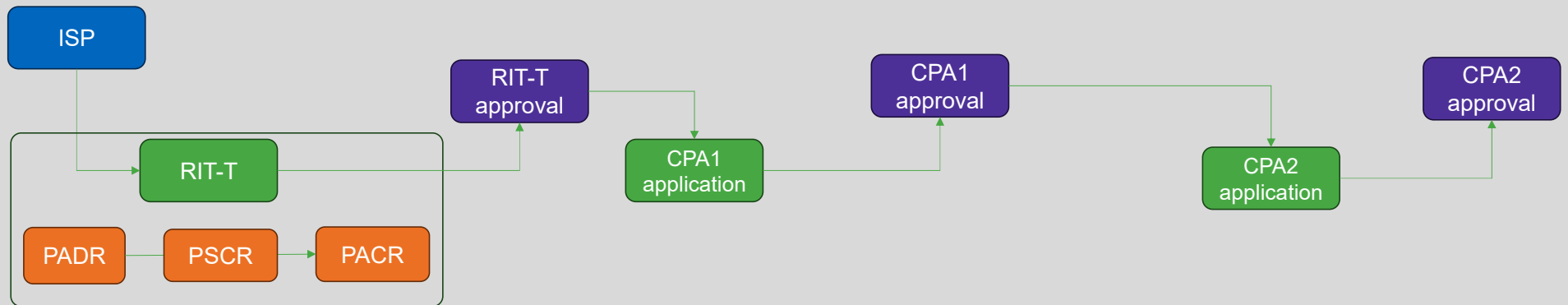


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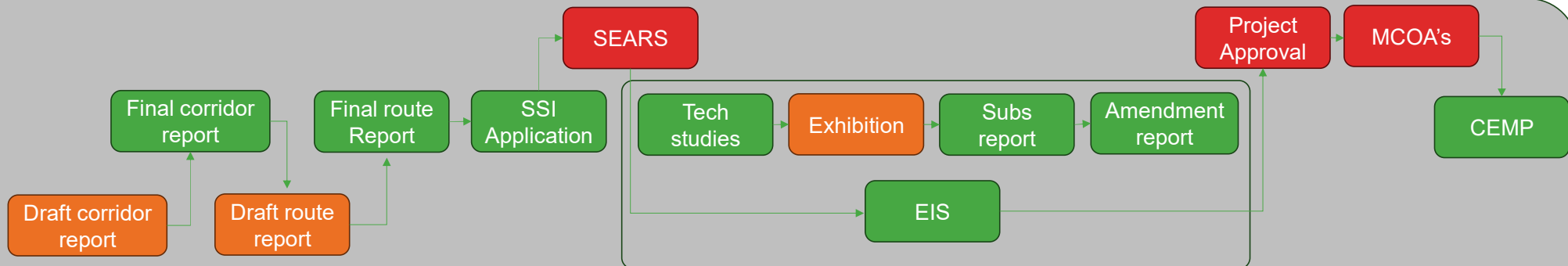


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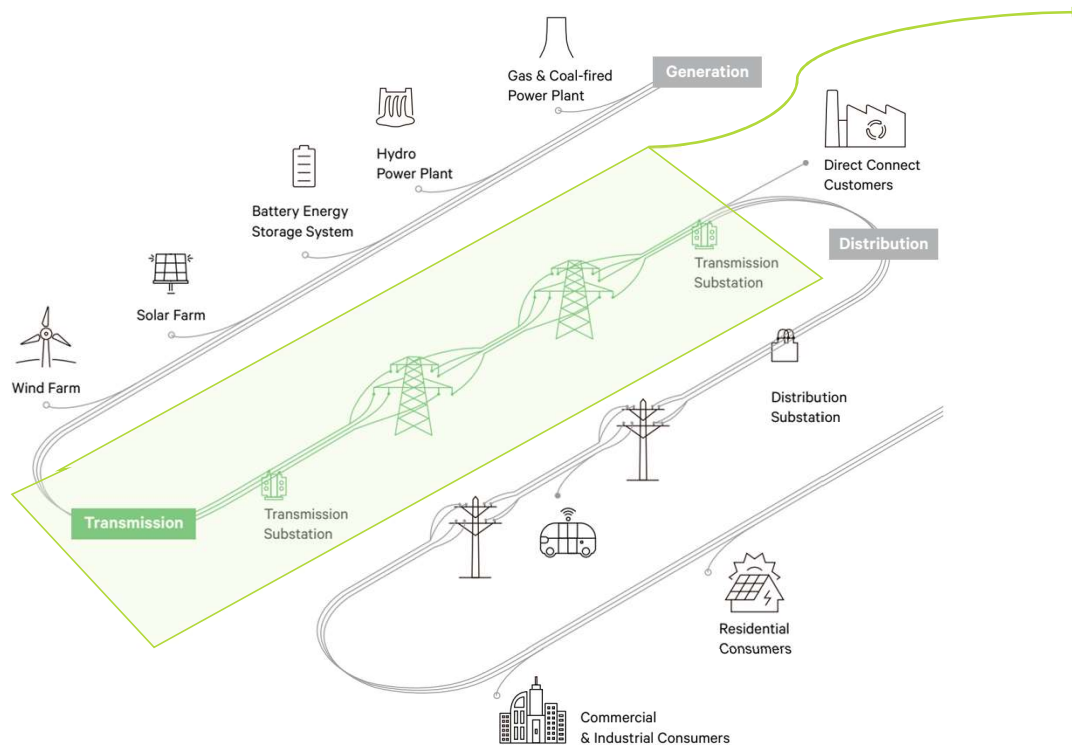
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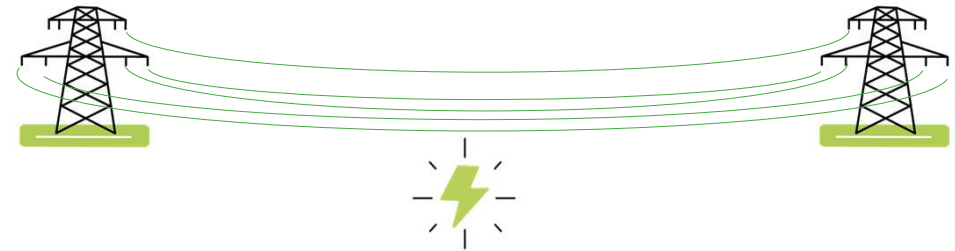
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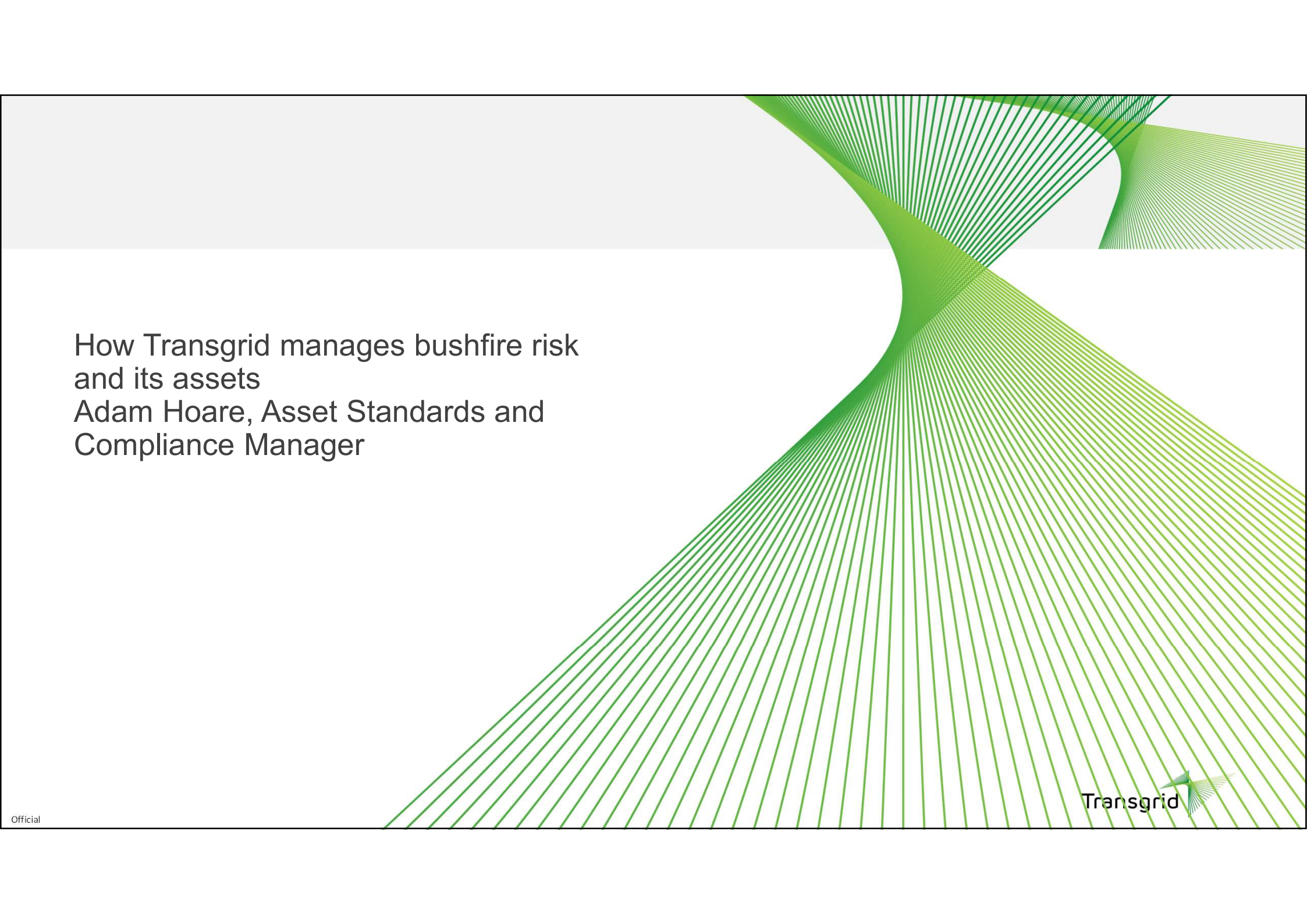
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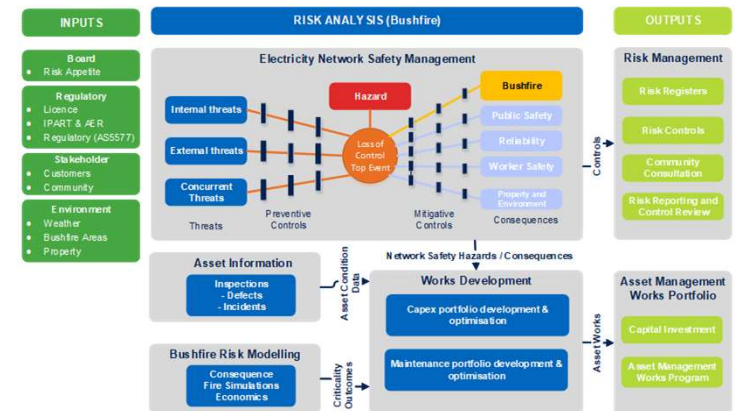
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Risk Approach



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Organisational Preparedness Assessment – 2023/24 Bushfire Season

Bushfire risk modelling

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Insight: The risk modelling enables enhanced confidence on decision making, and a prioritised effort driven program targeting potential high-risk sections of the network.

Pre-bushfire season maintenance program

Pre-season maintenance activities are forecast to complete pre-bushfire danger period. Oversight committees for corrective maintenance in-place for reporting and assurance.

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Insight: Provides good situation awareness to AMC/Control Room Operators, and field staff of potential emerging fire risks.

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Network operating protocols and transmission system capability are robust to manage and mitigate bushfire threats, sufficient critical spares are available and response crews are trained and ready to be deployed if needed.

Insight: Mitigates network consequences from bushfire and ensures we can recover from failures rapidly.

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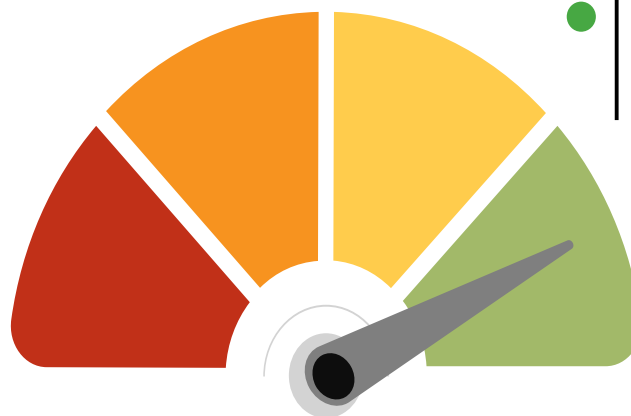
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Internal teams aware and ready to widely communicate commencement of bushfire danger periods.

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**Energy and Utility
Services Functional Area
(EUSFA)**



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Community Investment Program

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As part of VNI West Transgrid will make an investment in the local community.

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1. Engage and consult with the relevant internal and external stakeholders
2. Identify the need and the expected outcomes
3. Evaluate the different opportunities and streams
4. Engage with potential implementing partners

Healthcare
Telecommunications
Education
Research
Resilience

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Stakeholder Manager
Nathan Menser, Community and
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Meeting close

Thank you for your time

1800 222 537

vniw@transgrid.com.au

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VNI West Community Consultative Group

Meeting 2 - 13 December 2023

Acknowledgement of Country

We would like to acknowledge the Wiradjuri, Wamba Wamba, Perrepa Perrepa and Yorta Yorta people as the custodians of the lands and waters on which we meet today.

We pay respect to Elders past and present.



Agenda

Time	Agenda item	Time allocated	Presenter
9:45 – 10:00	Morning tea	10 mins	
10:00 -10:05	Acknowledgement of Country	5 mins	Brendan Blakeley
10:05 – 10:20	Welcome, introductions and housekeeping and review of previous minutes	15 mins	Brendan Blakeley
10:20 – 10:35	Route Selection methodology: • Process and considerations • Hierarchy of constraints	15 mins	Jarryd Barton (WSP)
10:35 – 10:50	Transmission 101 – Q & A	15 mins	Joel Annett, Colin Mayer
10:50– 11:00	The Environmental Assessment process	10 mins	Geoff Hudson, Transgrid
11:00 -11:15	How Transgrid manages bushfire risk and its assets	15 mins	Adam Hoare, Transgrid
11:15- 11:30	Community Benefit – Framework and engagement	15 mins	Joel Annett
11:30- 11:45	VNI West Consultation and engagement program	15 mins	Nathan Menser and Joel Annett
11:45 – 12:00	Wrap up and close	15 Mins	Brendan Blakeley

Review of Meeting 1 minutes and action items

Action items

Agenda item	Description	Person responsible	Status
4. Preferred Corridor report: Key Themes	- Summary on how Transgrid arrived at the preferred corridor for VNIW - Send Draft Corridor report to group - Provide group with Departmental description of CSSI	Secretary/Nathan Menser	Completed
6. Route selection	CCG members asked for feedback on the route selection assessment criteria	CCG	No feedback received
8. Meeting schedule	Proposed dates and formats to be sent to CCG for upcoming meetings	Secretary	Completed
Questions on notice	Can Preferred Corridor Report submissions be made available to the group? Cultural heritage studies, particularly the predictive modelling, will these be made available to the CCG?	Secretary/Joel Annett/Geoff Hudson	Completed

Route selection methodology

Jarryd Barton
Principal Environmental Planner, WSP



Route selection process

2023

2024



Typically between 10 and 50 kilometres (depending on project scale)



Typically between one and 10 kilometres wide



Typically up to around one kilometre wide



Typically up to 200 metres wide (with the potential for wider area(s) up to one or more kilometres wide where further investigation may be required)

Route options assessment methodology - Current progress

- Review and update of constraint and opportunity criteria
 - Testing and agreement of the technical, environmental and social/community criteria
- Identification of preliminary route options
 - With a focus on the high and moderate potential impact constraints, a series of preliminary routes have been identified
 - This was undertaken both through visually analysing the constraint mapping of high and moderate potential impact constraints and identifying best-fit alignments which were readily apparent from the mapping.
- Refinement to a short-list of route options for taking forward to assessment
 - The preliminary route options are currently being refined to a short list of feasible options
 - The short-listed route options will then be subject to the assessment methodology and further detailed consideration.

Route options assessment methodology - Evaluation overview

- The route evaluation and assessment methodology will consist of the following components:
 - **Application of a traffic light scoring system supported by qualitative data:** Utilising the available mapping data (including feedback received from CCG members), each of the options will be considered as to whether they have an 'on-balance' positive, neutral or adverse outcome.

Positive outcome compared to other options

Neutral outcome compared to other options

Adverse outcome compared to other options
 - **Application of weightings to the identified criteria:** To take into account the potential impact rating allocated to each criteria, a weighting system will be used to allow for a suitable numerical scoring output reflective of ratings levels (i.e. high, moderate, low potential impact or opportunity) identified for each of the criteria.

	Traffic light assessment		
Criteria impact	Green	Orange	Red
High impact constraint	+5	0	-5
Moderate impact constraint	+3	0	-3
Low impact constraint	+1	0	-1
Opportunity	+5	0	0

Route options assessment methodology - Evaluation overview

- **Scoring:** This will include an assessment of how each of the identified options perform against the established route assessment criteria. This will be based on a combination of the consideration of the 'traffic light' assessment and associated weighting identified for each criteria.
- **Validation by Community Consultation Group:** Any feedback on the process and criteria received will be considered for incorporation into the final assessment and reporting.
- **Preliminary evaluation of route options:** The identified preliminary route options will be evaluated using the spatial data gathered for the Project.
- **Documenting the route evaluation process:** The documentation of the process will be included in the Draft Route Options Report for the NSW component of VNI West.
- **Exhibition of the Draft Route Options Report:** The Draft Route Options Report will be placed on public exhibition for a period of around five weeks to allow for community and other stakeholder feedback to be received on the draft options considered and the recommended preferred route option proposed.

Hierarchy of constraints

Technical

- Land use
- Engineering
- Land tenure
- Bushfire

Environmental

- Ecology
- Heritage
- Land use
- Hydrology and groundwater
- Soil and contamination

Social / community

- Land use
- Visual and landscape

High constraint EXCLUDE

- Areas considered unfeasible for the siting of a transmission line
- Excluded from the assessment

Moderate constraint AVOID

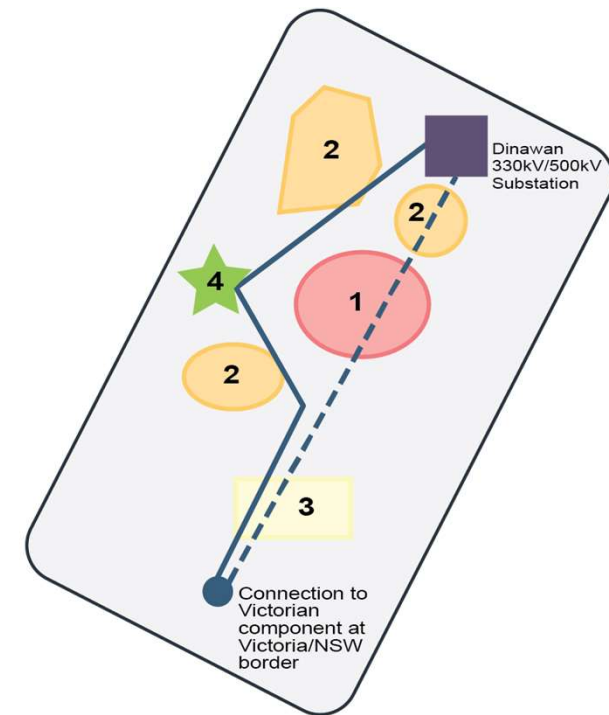
- Areas significantly constrained
- Should be avoided where possible

Low constraint MINIMISE

- Areas that are constrained, however, avoidance may be considered a lower priority
- Minimisation of impact to these areas should be considered

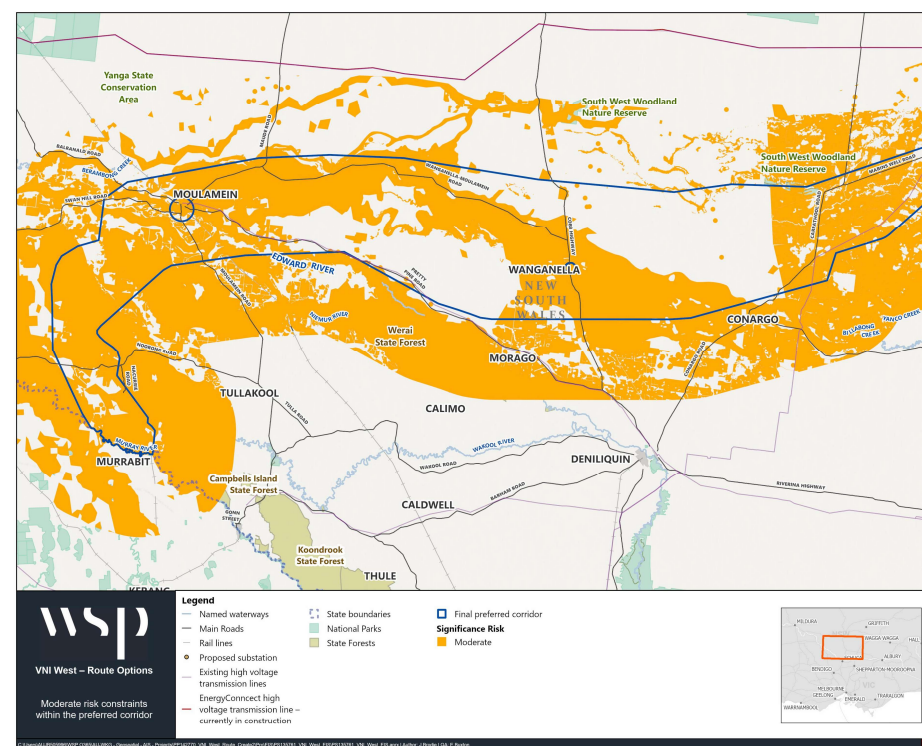
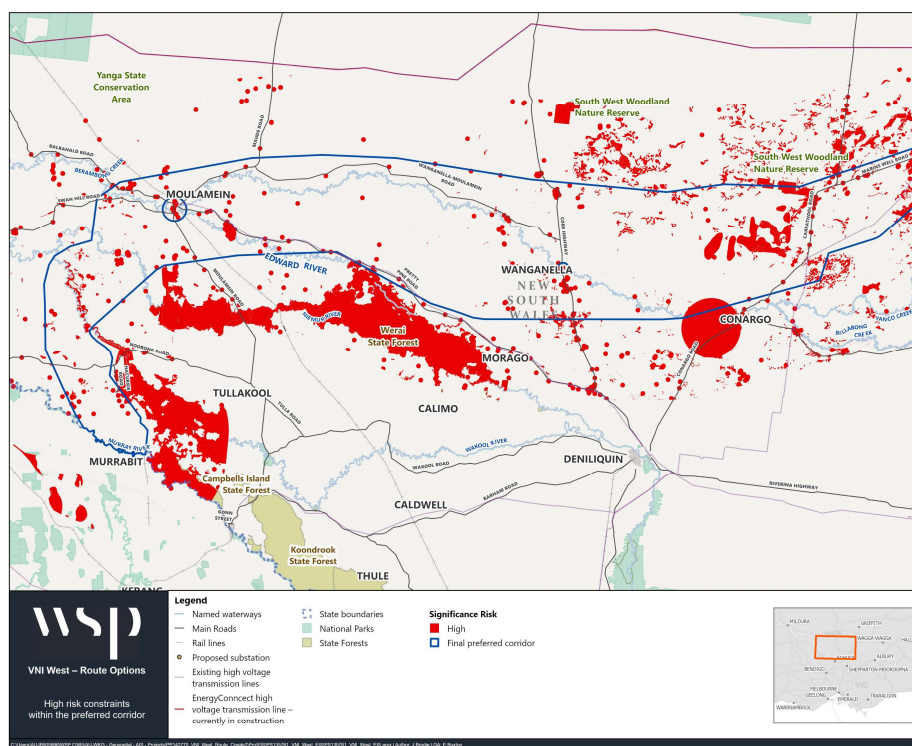
OPPORTUNITIES

- Areas that present potential opportunities for siting of the transmission line
- Should be considered as a preference for selecting and refining the transmission line corridor



- Feasible corridor, avoiding constraints and utilising opportunities
- - - Unfeasible corridor

Opportunities and constraints mapping



Transmission 101 – Q&A

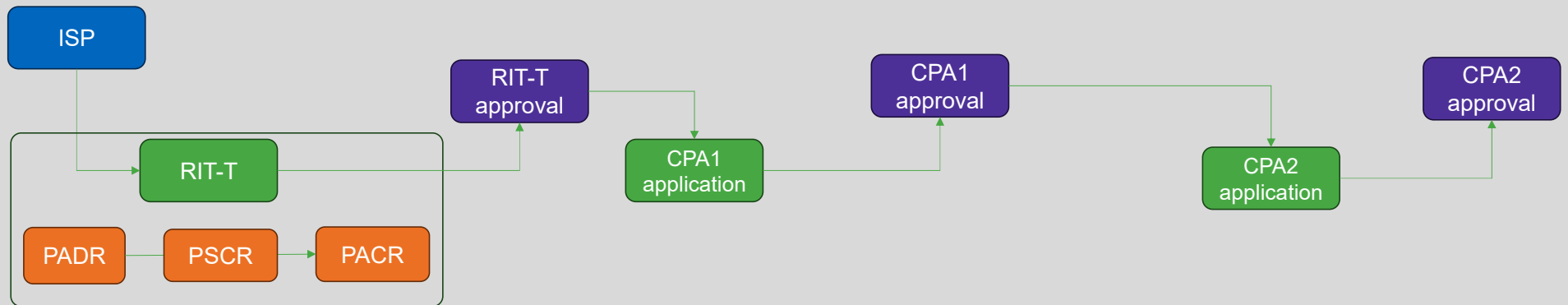
Joel Annett and Colin Mayer

How electricity is managed in NSW

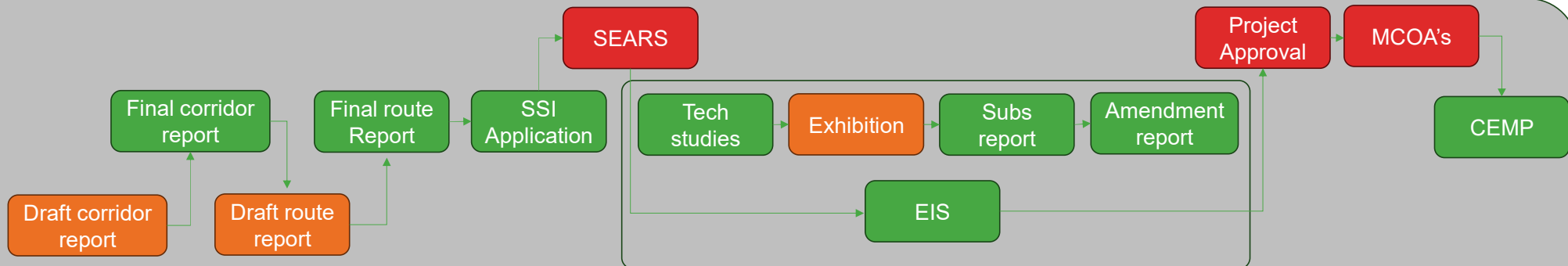


Engagement and approvals process

Regulatory approval



Planning approval



AEMO

AER

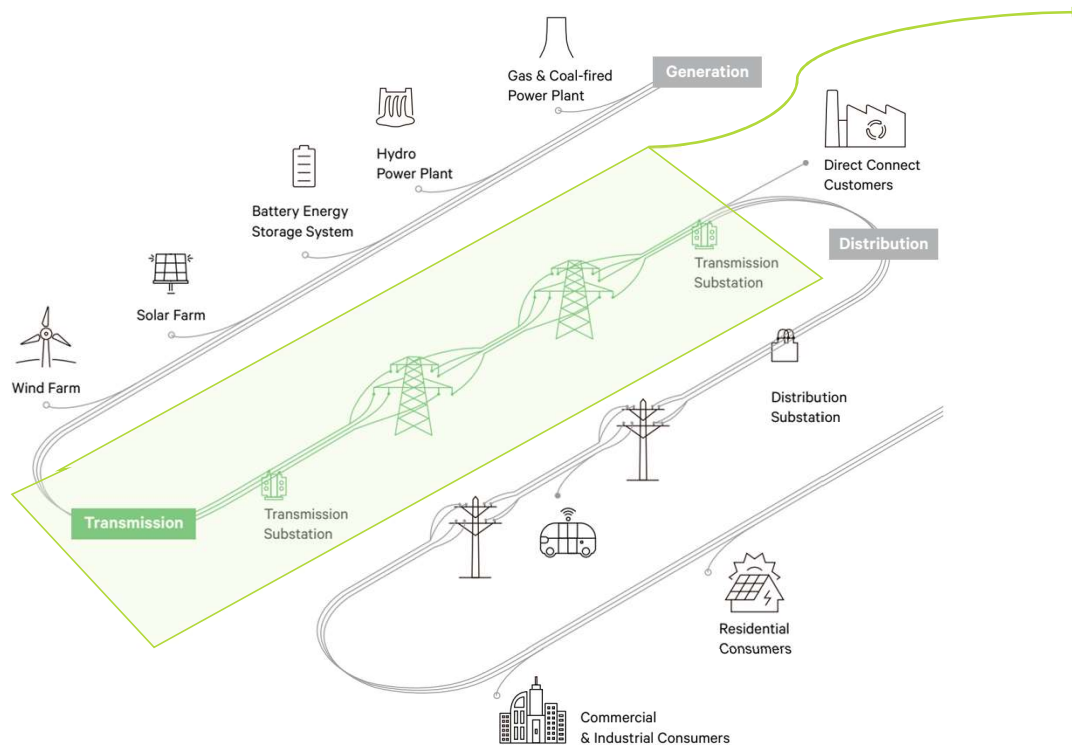
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Transgrid

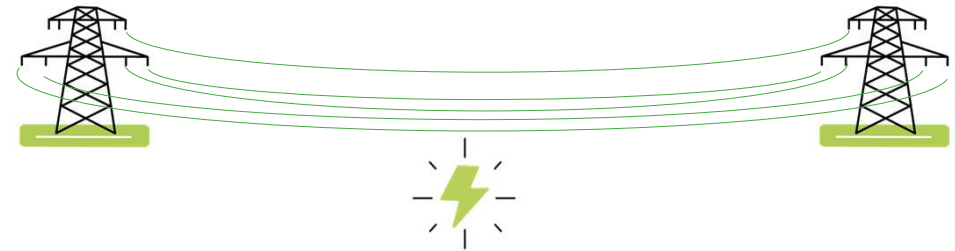
Consultation

Where transmission fits in the system

Electricity Supply Chain



Safe, Reliable & Secure Transmission



Safe – Managing the transmission system in such a way that reduces safety risks to the community, environment and our staff. I.e. keep electricity contained in its conductor.



Reliable – Managing the transmission system to balance generation/supply and load/customer requirements and deliver the quantity/quality of energy where required.



Secure – Managing the transmission system within technical operating limits under system normal and in response to faults/disturbances.

The Environmental Assessment Process

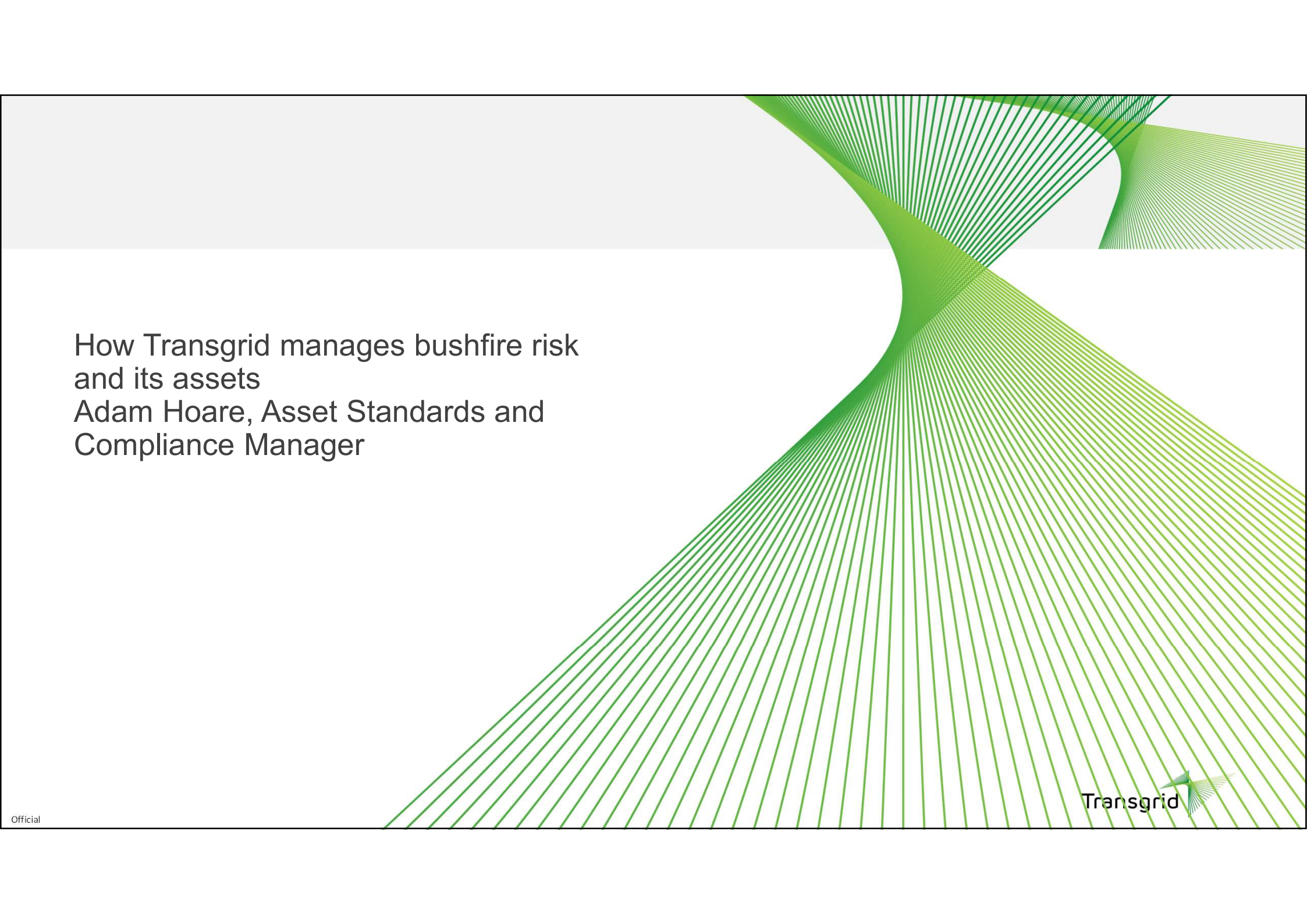
Geoff Hudson, Environment Manager

Environmental Assessment process



Summary Outlook for 2023/early 24 (NSW)



The background of the slide features a complex, abstract design composed of numerous thin, green lines. These lines are arranged in a way that creates a sense of depth and movement, resembling a stylized, flowing shape that could be interpreted as a representation of a bushfire or a network. The lines are most dense in the upper right and lower right areas, creating a bright green, almost white, focal point. The overall effect is modern and dynamic.

How Transgrid manages bushfire risk and its assets Adam Hoare, Asset Standards and Compliance Manager

Compliance & Risk Approach

Compliance Instruments

Electricity Supply (Safety and Network Management) Regulation 2014

A network operator must have a safety management system in place that is in accordance with AS 5577; and addresses the **management of bushfire risk** relating to assets capable of initiating a bushfire.

AS 5577 Electricity Network Safety Management

The Standard exists for the support of:

- the **safety of the public**, and persons near or working on the network
- the protection of property and network assets
- safety aspects arising from the protection of the environment, including protection from **ignition of fires by electricity networks**
- safety aspects arising from the loss of electricity supply.

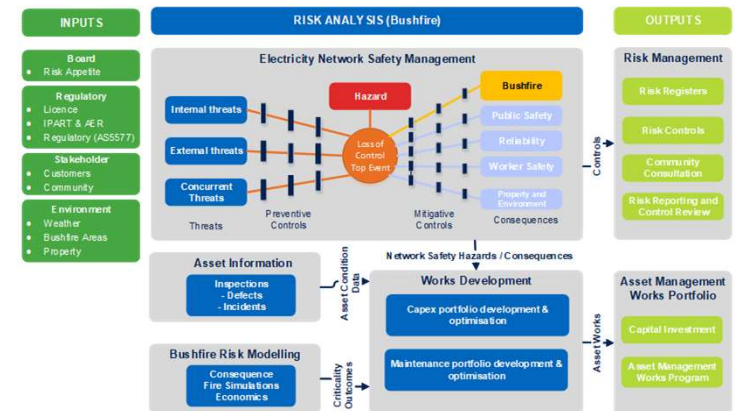
Risk Management Approach

Transgrid utilises a mature risk-based system to manage and mitigate bushfire risk to **as low as reasonably practicable**. The Management System:

- Utilises Formal Safety Assessments (Risk Approach)
- Executes a Bushfire Risk Management Plan
- Incorporates appropriate **oversight and reporting** committees for performance tracking and continuous improvement.
- System effectiveness is frequently assured through internal and external **auditing**.

Our **Bushfire Risk Management Plan** outlines the approach of proactively managing, and appropriately mitigating, our exposure to bushfire risks.

Risk Approach



Maintenance Activities (vegetation and transmission lines)

Key Maintenance Activities - Inspection Programs

Our inspection programs identify high priority asset defects based on failure consequences prior to season commencement to help mitigate bushfire risks, this includes:

1. Vegetation Management

- **Ground easement inspection** and **vegetation management** - ensures clearances to transmission lines are maintained prior to the next maintenance cycle
- Annual **LiDAR inspections** prior to the bushfire season – ensures unexpected growth or intrusions are identified and managed between routine inspections
- **Off easement hazard tree** management is prioritised based on quantified bushfire risk.

2. Transmission Lines

- Annual **aerial helicopter inspections** of network completed prior to bushfire season.
- Annual **ground-based inspection** of the transmission line structures with the highest potential bushfire risk.
- Routine maintenance inspection tasks to **detect defects and assess condition** that helps identify longer-term condition-related deterioration of assets.



Transmission Line Capital Projects – Bushfire focused

Transgrid manages and mitigates bushfire and public safety risk to **as low as reasonably practicable** - our capital programs are a key enabler

Portfolio of capital projects to further mitigate bushfire risk

- Scope and prioritisation is based on **asset condition and relative bushfire and public safety risk** at each location on the network
- Projects involve:
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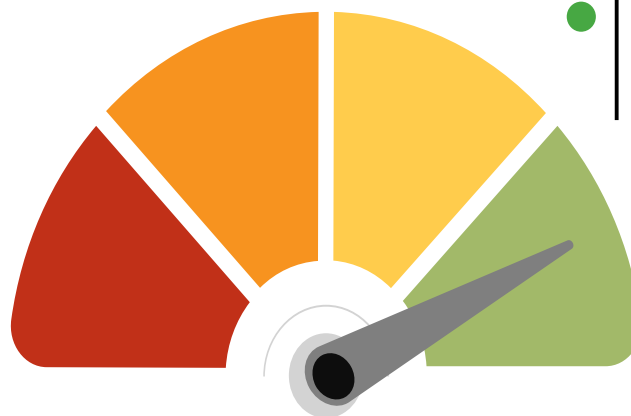
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