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Picnic Point to Revesby Cable Replacement Project

Community information session

Thursday 26 April – Acacia Room, Revesby Workers Club

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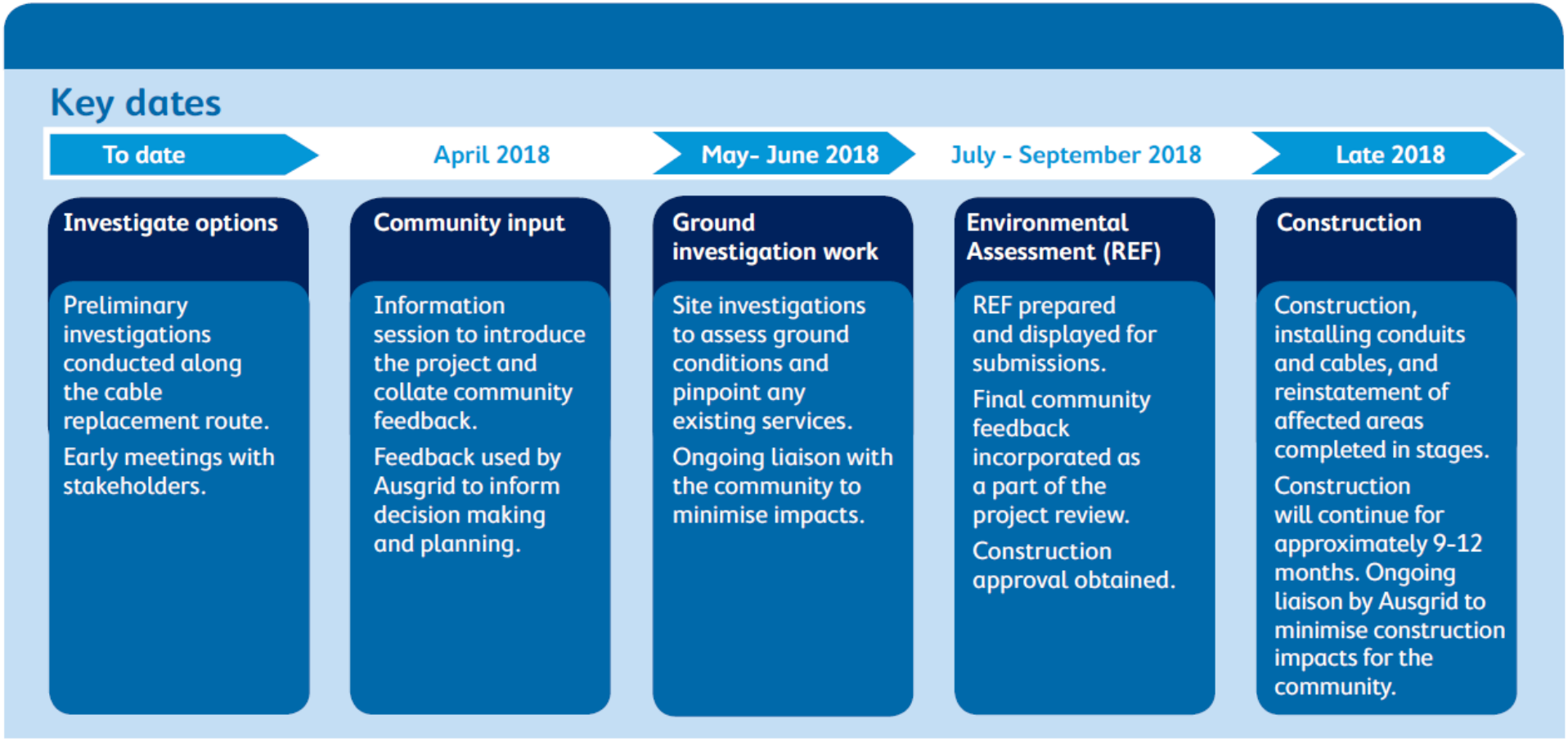
Tonight's session:

- Introduction to project team
- Key dates and how we will use your feedback
- Two short presentations:
  - Ausgrid overview, project need and project planning (Matthew Irla)
  - What to expect during construction (Allan Ghadban)
- Questions, comments, feedback
  (community & project team)

Key dates:


Key dates
To date
April 2018
May- June 2018
July - September 2018
Late 2018
Investigate options
Preliminary investigations conducted along the cable replacement route.
Early meetings with stakeholders.
Community input
Information session to introduce the project and collate community feedback.
Feedback used by Ausgrid to inform decision making and planning.
Ground investigation work
Site investigations to assess ground conditions and pinpoint any existing services.
Ongoing liaison with the community to minimise impacts.
Environmental Assessment (REF)
REF prepared and displayed for submissions.
Final community feedback incorporated as a part of the project review.
Construction approval obtained.
Construction
Construction, installing conduits and cables, and reinstatement of affected areas completed in stages.
Construction will continue for approximately 9-12 months. Ongoing liaison by Ausgrid to minimise construction impacts for the community.

Purpose of Session:

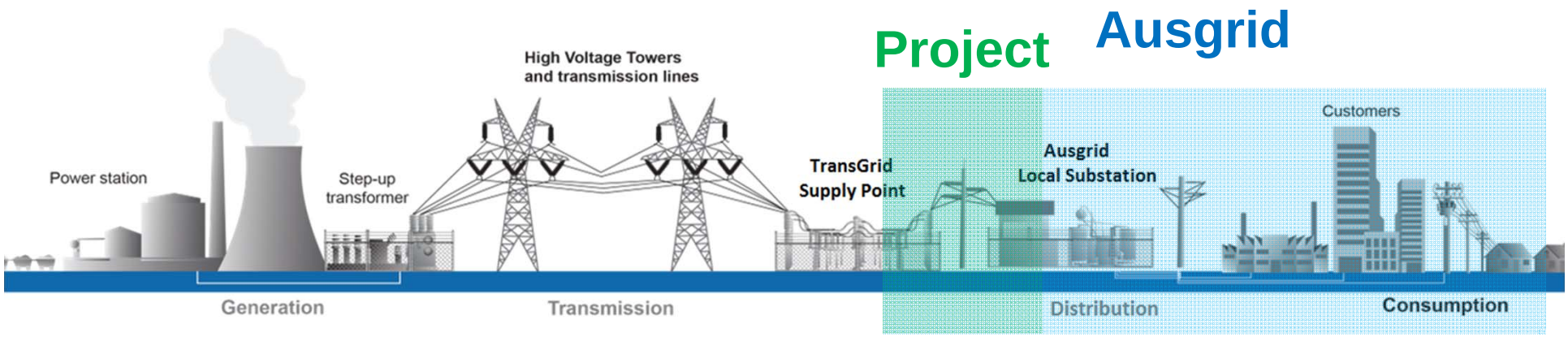
- Provide information and seek feedback
- Consolidate feedback and inform decision making
- How feedback is used:
  - Feedback forms
  - Consolidation & incorporation
  - Decision
  - Environmental assessment

Replacing cables between Picnic Point and Revesby

Ausgrid Area Development Manager

Matthew Irla

Overview of electricity network

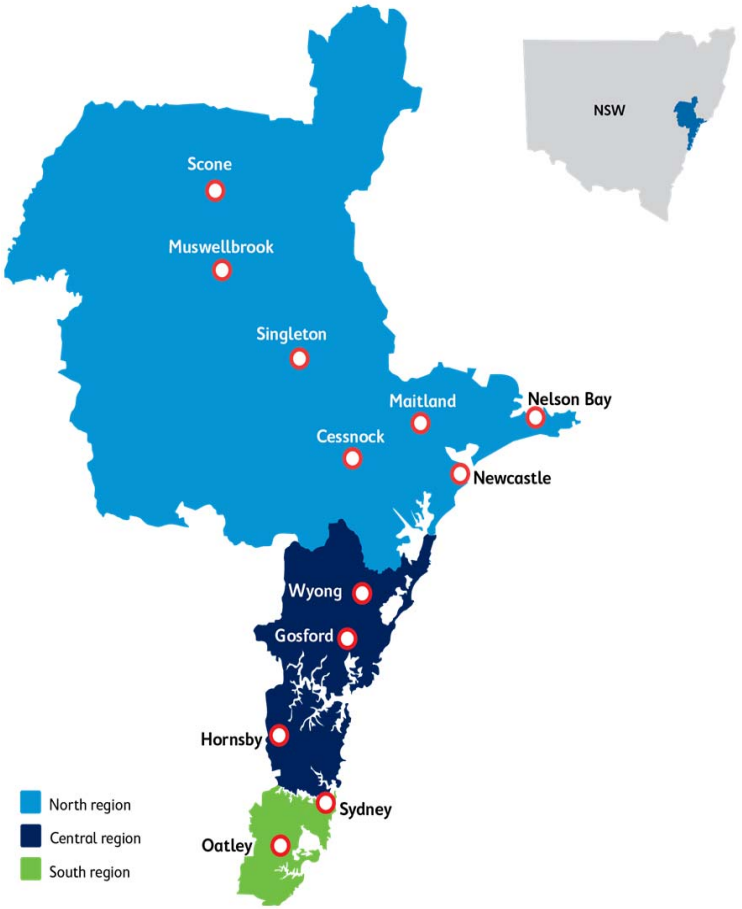


- Eraring - 2,800MW (Origin)
- Bayswater - 2,640MW (AGL)
- Liddell* - 20000MW (AGL)

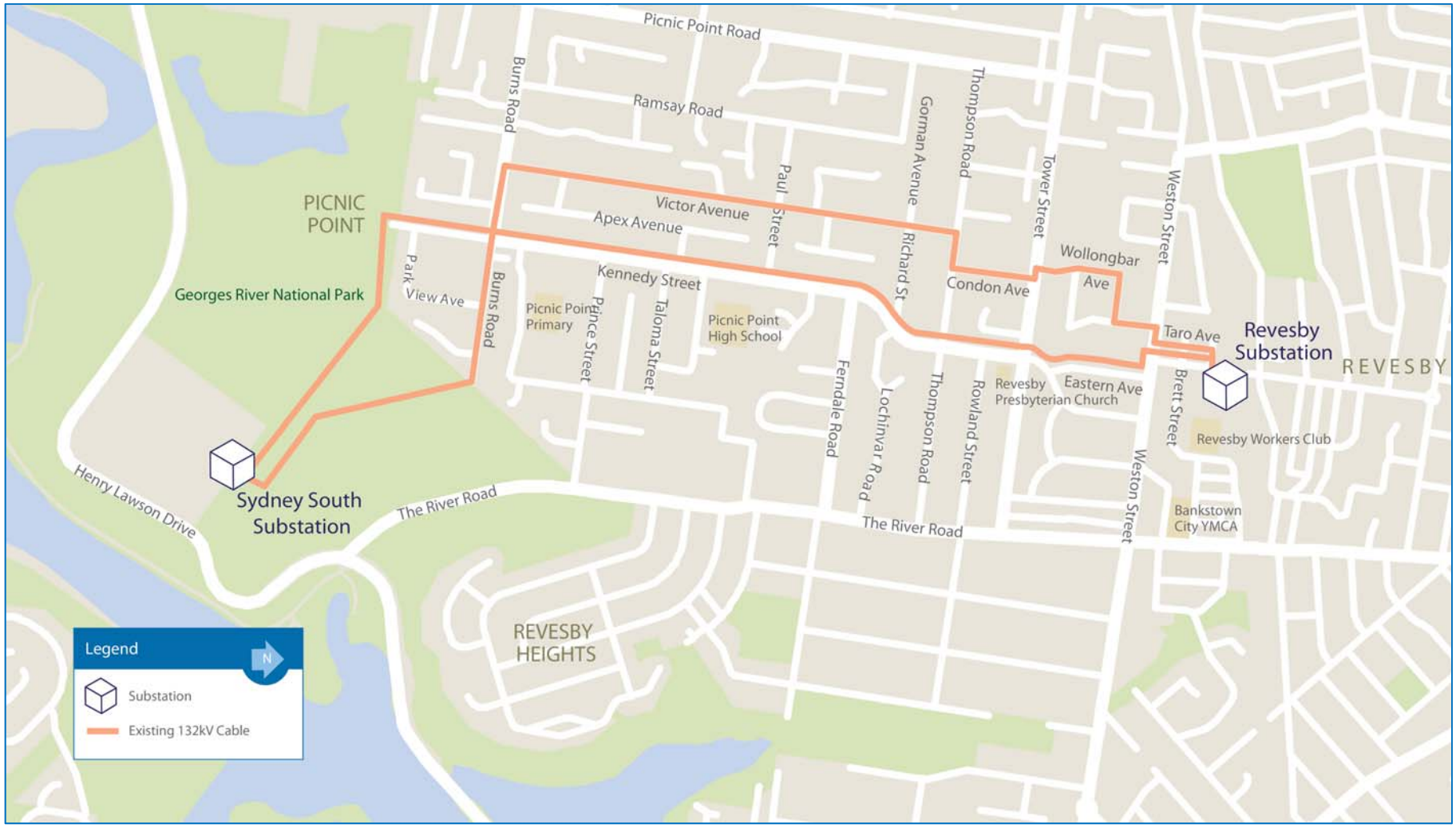
- TransGrid

The Ausgrid network area

- 1.7 million customers – households and businesses
- Network covers 22,275 square km
  - 200 Large Substations
  - 30,000 small substations
  - 50,000km of power lines and
  - 500,000 power poles
- Building our network today would cost an estimated $38 billion
- Partnership of Owners.



Existing cable route between Picnic Point and Revesby



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Project need

- Existing cables:
  - 132kV Self Contained Fluid Filled (SCFF)
  - In service for approximately 55 years.
- Dedicated engineers to assess cables.
- Approaching end of service life:
  - Reliability Concern

132kV cable cross section

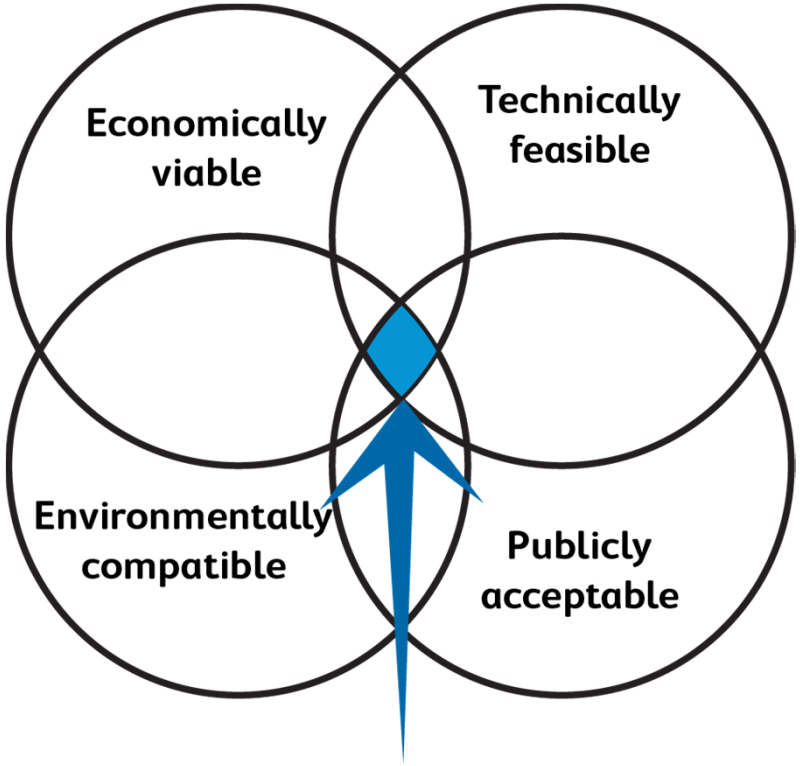
What can we do?

1. Do nothing
2. Maintain & Repair
3. Replace

✓ License requirements:

To maintain a safe & reliable supply of electricity to our customers

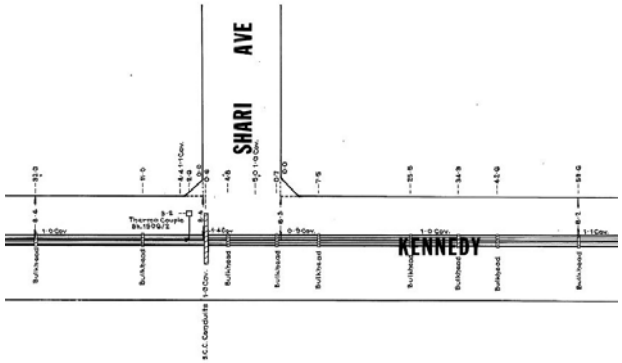
How we plan projects

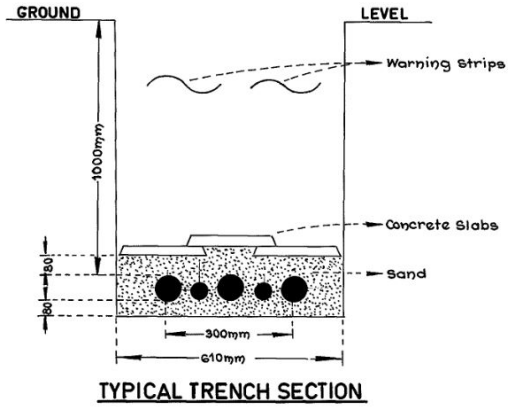


Sustainable decisions must balance all of these factors

Planning so far

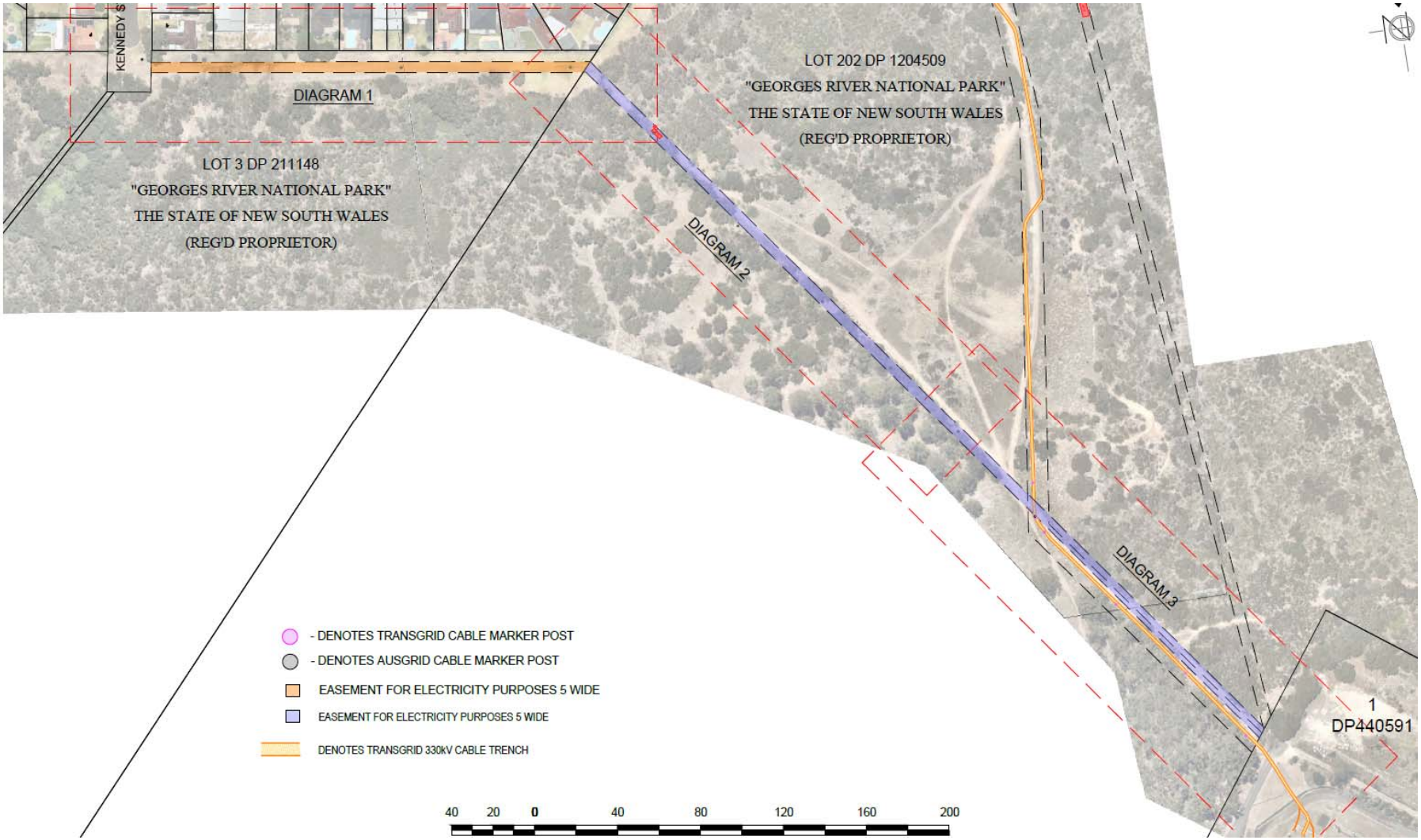
- Existing route analysis
- Focus areas
- Site visits and investigations
- DBYD's
- Discussion & meetings with key stakeholders
    - TransGrid
    - Canterbury Bankstown Council
    - National Parks and Wildlife



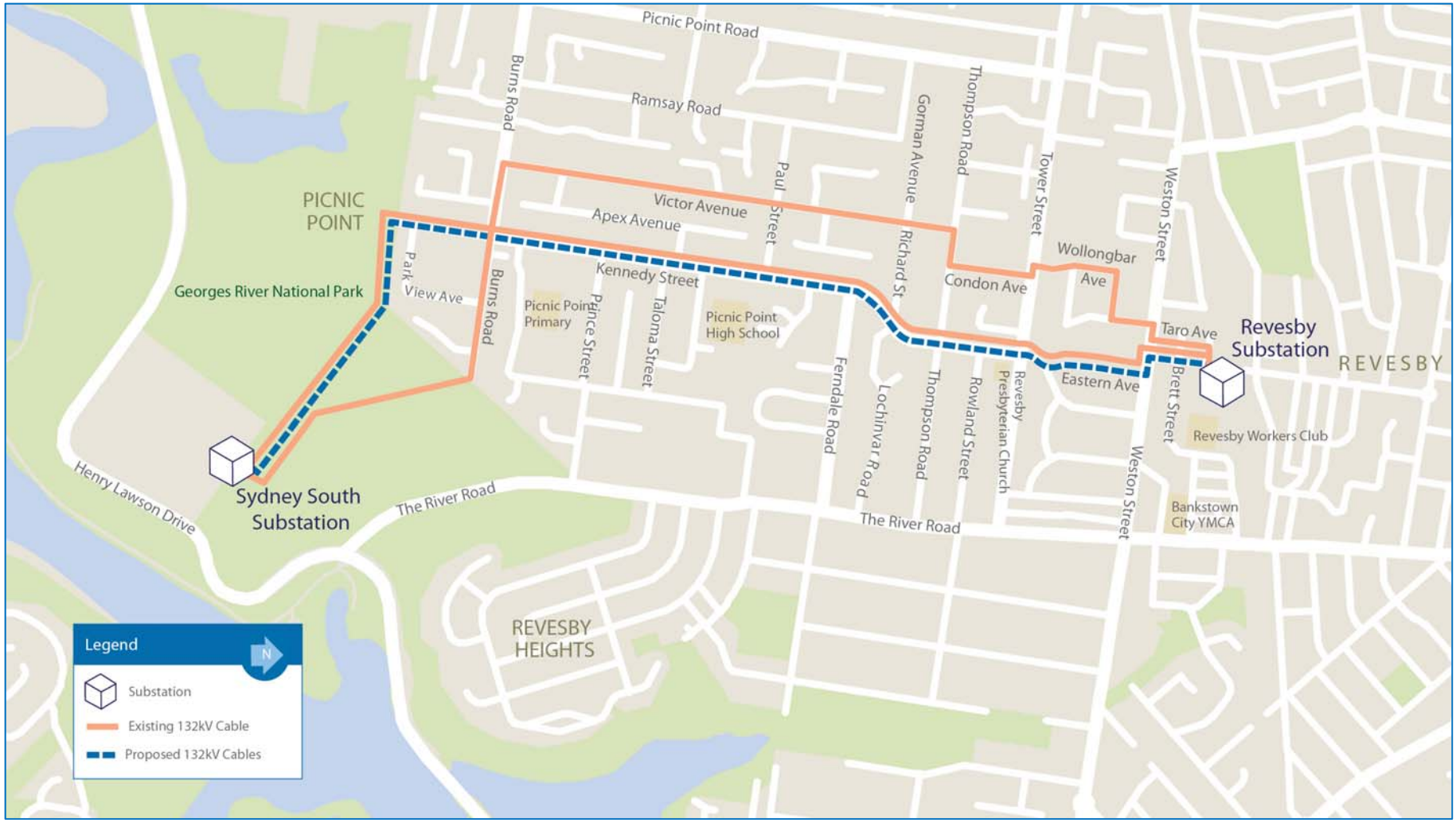


TYPICAL TRENCH SECTION

Environmental Limitations - National Parks



Where we are at now



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Any questions?

- Questions?
- Comments?
- Feedback?

What to expect during construction

Ausgrid Project Manager
Allan Ghadban

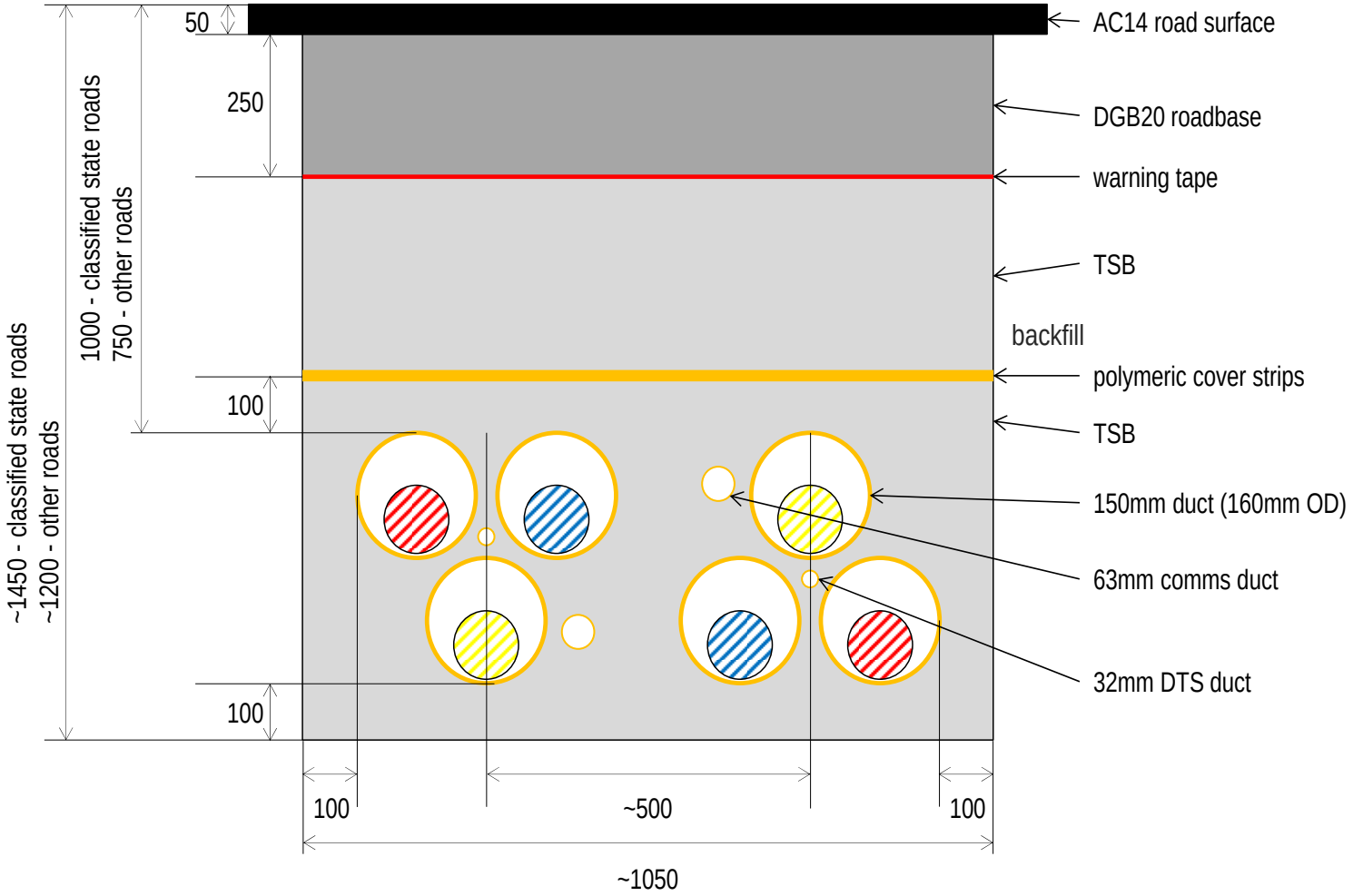
Construction Phases

1. Site investigations
2. Excavation and conduit (plastic pipe) installation
3. Excavation and installation of joint bays and other pits
4. Cable pulling
5. Joining sections of cables together
6. Testing and commissioning
7. Permanent road restoration

Typical underground cable project - excavation

Conduit installation

Modern typical cable installation – 132,000V cables



Semi-permanent restoration following conduit install

Joint bay installation

Cable pulling

Cable joining

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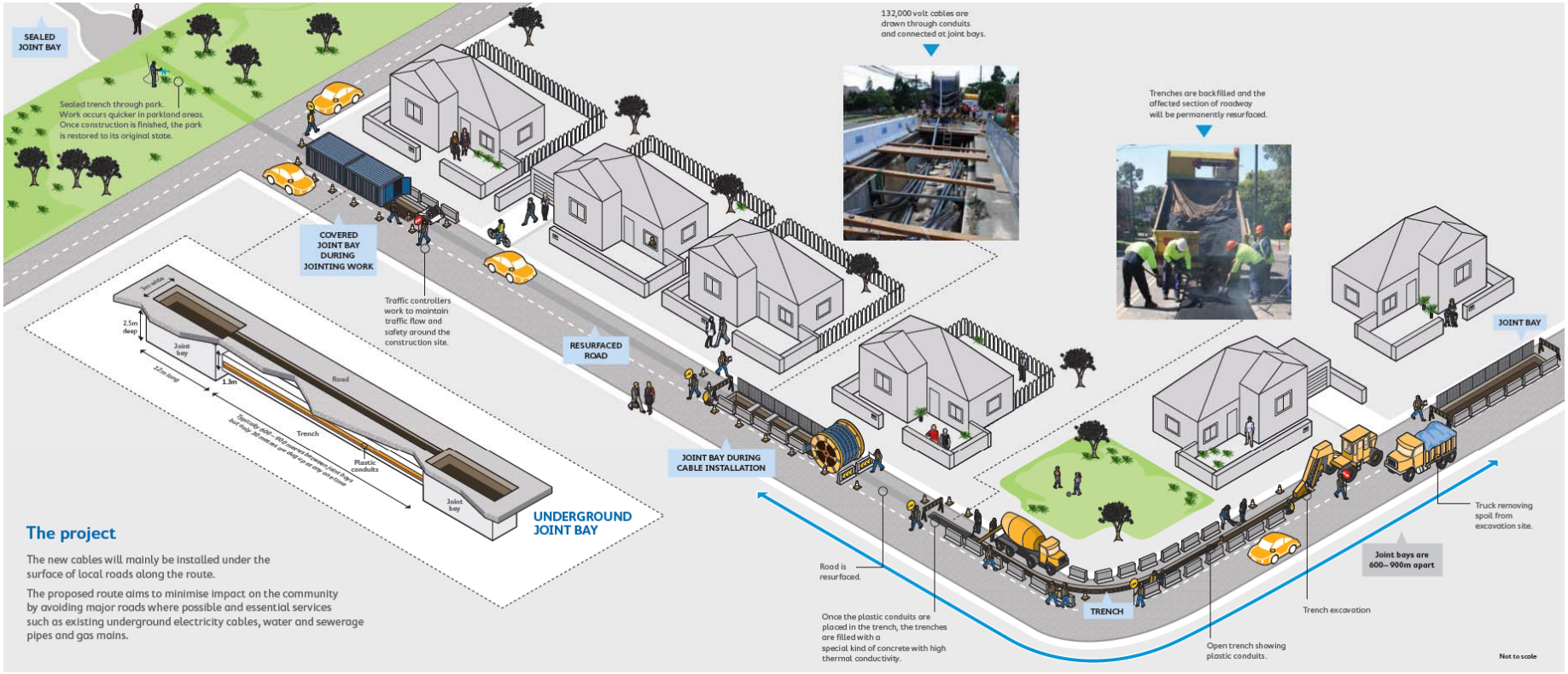
Testing

Permanent road restoration

Similar recent/current cable projects

- Surry Hills to Rose Bay cable project
- Engadine cable project
- Sydney Olympic Park cable project
- Beaconsfield to Kogarah cable project
- Homebush to Rozelle cable project
- North Shore cable upgrade project
- Carlingford cable project
- Pyrmont to Camperdown cable project
- Pymble to Lindfield project

Summary



The project

The new cables will mainly be installed under the surface of local roads along the route.

The proposed route aims to minimise impact on the community by avoiding major roads where possible and essential services such as existing underground electricity cables, water and sewerage pipes and gas mains.

Construction stages

Trenching and conduit installation

- Trenching can occur on more than one site on a project simultaneously.
- Plastic conduits (pipes) will then be placed in the trenches and then the area is backfilled with a special kind of concrete.
- Then the section of road is either permanently reinstated immediately or at the end of the project, depending on contractual agreements.

1–3 days
Time it takes to complete work outside most properties.

Underground joint bays

- Underground joint bays will be constructed every 600–900m along the route.
- The joint bays are used to connect the cable sections.
- Between construction of the joint bay and connection of the cables, joint bays are either backfilled temporarily, barricaded or enclosed. Once cables are connected, the section of road is resurfaced.

2–4 months
Overall time it takes to work at each joint bay location.

Cable installation

- At a later date, cable drums will be set up at joint bay locations.
- The 132,000 volt cables are pulled through the pipes and connected at the joint bays.
- Cable connection takes one to two weeks.

2–4 weeks
Time it takes to complete work outside most properties.

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Questions / Comments / Feedback

Contacting us

You are welcome to contact us with any enquiries:

Call 1800 604 765 (free call from fixed phones)

Email majorprojects@ausgrid.com.au

Visit www.ausgrid.com.au/picnicpointrevesby

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