
1 Introduction

The Feasibility Study focused on the Dumaresq to Tenterfield portion of the Study Area. The Study concluded that a feasible transmission line route exists between Dumaresq Substation and the Tenterfield Substation or a nominated connection point along the existing Lismore – Tenterfield 132kV line route.

1.4 Objectives of Report

The objective of this Constraints Identification and Preferred Corridor Report is to identify a preferred corridor which provides the best social, environmental, technical and economic option available for the routing of the proposed 330kV transmission line. In order to achieve this objective, a staged approach to the identification of a preferred corridor has been adopted. The key stages comprise:

- undertake a desk-top review of all existing environmental and engineering data relating to the Study Area;
- undertake a community consultation programme which promotes awareness of the project and assists in gathering important local knowledge about the area and what is important to the local community;
- consult with government agencies and obtain recommendations and requirements in relation to the Study Area;
- undertake preliminary field investigations in the Study Area, in particular to identify key land use, ecological, heritage, and visual constraints;
- consolidate all identified information and constraints into a Geographic Information System (GIS) package to facilitate an objective analysis of all constraints within the Study Area;
- hold a constraints analysis workshop to analyse the identified constraints and routing options within the Study Area; and
- based on the analysis, identify a preferred corridor within which a 60m easement will be developed for the proposed 330kV transmission line.

1.5 Site Location

The Study Area extends between Lismore Substation and Dumaresq Substation (near Bonshaw), in northern NSW (**Figure 1-1**). The Study Area is set out in two sections which are:

- Lismore to Tenterfield, approximately 130 km in length, where the proposal is to utilise the existing, but widened, 132kV transmission line easement (Study Area East) (**Figure 1-2a**); and
- Tenterfield to Dumaresq, approximately 90 km in length, which continues from Tenterfield to the Dumaresq Substation (Study Area West) (**Figure 1-2b**).

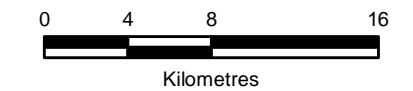
Land use within the Study Area includes a mixture of grazing, cropping, rural residential and forested land, interspersed with access tracks, road and rail infrastructure.

1.6 Terminology


Table 1-1 provides a summary of the terms used within this report along with the areas and activities to which they refer. Each of the areas referred to are shown on **Figure 1-1**, **Figure 1-2a** and **Figure 1-2b**.

Legend:

- Local Government Area
- Study Area (East)
- Existing Substation
- Transmission Lines
- Roads
- Railway
- Creeks/Rivers
- Wilderness
- State Forest
- National Parks, Nature Reserve, State Government Area



Source: TransGrid

| | | |
|---|----------------------------|------------------|
| Drawn: AJW | Approved: CB | Date: 23/09/2009 |
| Job No.: 43177662 | File No.: 43177662.023.mxd | |
| <p>Client</p> <p>TransGrid</p> | | |
| <p>Project</p> <p>DUMARESQ SUBSTATION TO LISMORE 330 kV TRANSMISSION LINE</p> | | |
| <p>Title</p> <p>STUDY AREA (EAST)</p> | | |
| Figure: 1-2a | | |
|  | | |