

Our Ref: 80815106 discussing demand and supply and solution  
Contact: Peter Waugh

28 November 2014

Health Infrastructure  
PO Box 1060  
NORTH SYDNEY NSW 2059

Attention: Geoff Ong

Hi discussing demand and supply and possible solution

**RE: LISMORE HOSPITAL CAR PARK**  
**CONTRACT NO. HI14542**  
**Electrical Services**

The relevant supply authority for the region is Essential Energy. The existing Lismore base Hospital is served by the following Essential energy supplies:

- 2x1000KVA chamber substation located within the existing block B
- 1x1000KVA pad mount substation located adjacent to the existing cancer care building.
- 1x750KVA pad-mount substation located on Hunter Street
- 1x3 phase overhead low voltage from the essential energy 300KVA transformer located on Hunter Street
- 2x1500KVA pad-mount substation at Uralba Street

The existing substations have insufficient spare capacity to serve the new car park buildings.

Therefore a new 300KVA pad-mount substation will need to be installed in the front of the car park building as indicated on the specials. Essential Energy will need to confirm what requirements they need but have verbally advised based on the load requirements that the substation will be one of two options:

- Pole mounted substation or
- Pad-mounted substation

Thus we have assumed the worst case scenario on our current specials.

In order to confirm this with Essential Energy an application will need to be resubmitted with as a **connection alteration enquiry**. Refer to the link below.

<http://www.essentialenergy.com.au/content/connecting-to-the-network1>

Yours faithfully

*Francois De La Chaumette*  
*Electrical Engineer*  
for **Cardno**

**Cardno (NSW/ACT) Pty Ltd**  
ABN 95 001 145 035

Level 9  
The Forum  
203 Pacific Highway  
St. Leonards NSW 2065

P.O. Box 19  
St Leonards NSW 1590  
Australia

**Phone: +61 2 9496 7700**  
**Fax: +61 2 9439 5170**

**[www.cardno.com.au](http://www.cardno.com.au)**