



**UCS**  
INFRASTRUCTURE

safe. on time. first time.

# UCS AND TESLA CASE STUDY

An innovative energy solution



# UCS AND TESLA PARTNERSHIP

## Project:

Tesla Charging Station at Silos Winery, Berry NSW

## Value:

Contract value approx. \$200,000

## Client:

UCS was engaged by Tesla to install a charging station for electric vehicles at Silos Estate. Silos Estate is an historic property committed to sustainable practices while offering a fresh approach to fine food, wine and accommodation. As part of this fresh approach, Silos Estate teamed up with Tesla to install fast charging infrastructure for electric vehicles (EVs).

## Requirement:

The project was made possible through funding by the Clean Energy Fund that also set timeframes for completing the project. The project's major design challenge was to meet the safety parameters of a high capacity charging station. The design also needed to meet the approved funding constraints.

## UCS engagement:

UCS was engaged through a tender process for the Design and Construct of the Endeavour Energy network services. The tender was let by Tesla.

## UCS services:

The UCS Power NSW team provided Accredited Service Provider (ASP) services, ASP 3, electrical network design and ASP 1 Electrical network construction.

## The design process:

It was critical to both Tesla and Silos Estate that the EV charging station was situated in the most suitable position - practical for charging and aesthetic to the historic and much-visited winery. The project underwent three design certifications to find a suitable position to meet the safe earthing and cost requirements of the project.

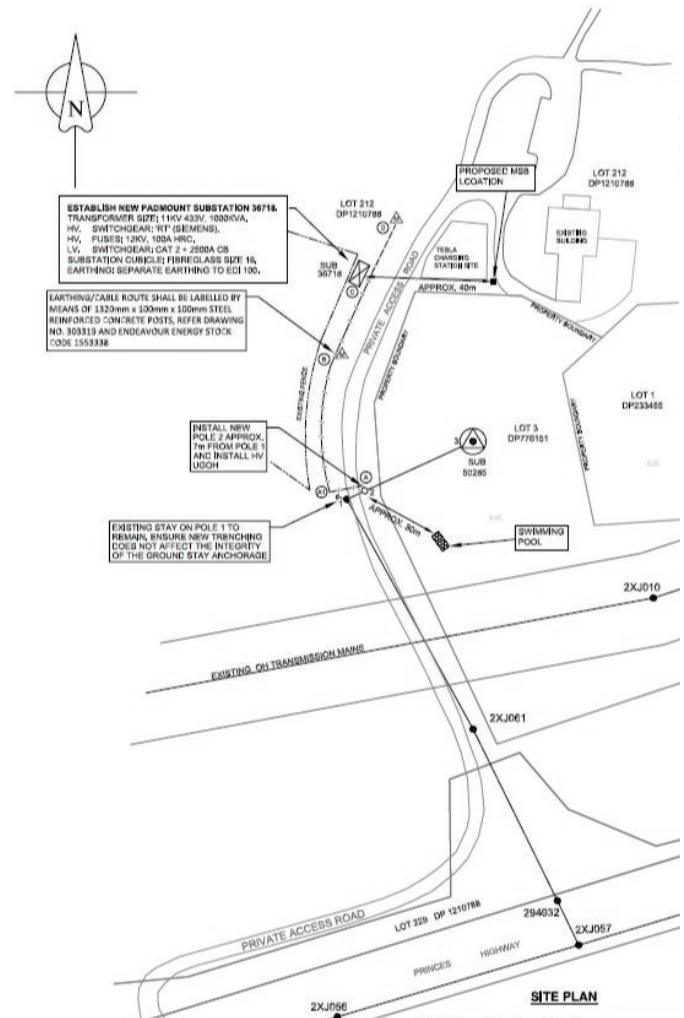
## The solution:

UCS Group employs a talented design team who are experts in ASP 3 work. The unique earthing requirement on this project also demanded that UCS engage an earthing consultant with specialised software to prove the safe installation of the infrastructure. The final design solution established that an insulated mounting for the transformer would provide sufficient protection for people and property in case of any HV electrical fault.

## Implementation:

Once the design challenges were overcome, UCS was able to quickly install the HV infrastructure to support the new load of the charging station. Work carried out included excavation for laying underground HV cables, landing the transformer substation and tying the project back into the Endeavour network grid.

## Challenges:





# UCS AND TESLA PARTNERSHIP

Challenges met and overcome during the project included finding a cost effective solution to the unique earthing protection requirements and designing a practical, safe and aesthetic installation.

## **Collaboration:**

The innovative nature of the project involved close collaboration with Silos Estate as the property owner, Tesla for the charging station infrastructure, UCS as the designer and installer, and Endeavour Energy as the owner of the electrical network.

## **Project outcome:**

UCS delivered the design and construction of the HV network and extended our service for installing the Low Voltage (LV) cabling ready for commissioning the charging station.

## **Timeframe and budget:**

The issues experienced with the design challenged the timely delivery of the project. However, UCS's involvement in the design phase as well as construction was the key to enable fast installation of the HV infrastructure, and delivery on time at the quoted price.

## **Customer benefit:**

For Silos Estate the Tesla EV charging station is a unique drawcard that brings travellers to their remarkable facilities. For Tesla the charging station contributes to the infill of a national network of electric vehicle infrastructure, a key step in promoting this cleaner technology.





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Hallam VIC 3803

### TRUGANINA

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Truganina VIC 3029

### GROVEDALE

186 Marshalltown Rd  
Grovedale VIC 3216

### CAMPBELLTOWN

9 Mount Erin Rd  
Campbelltown NSW 2560

