

# Network Capability Incentive Parameter Action Plan (2014-2019)

<b>Project Number</b>	9
<b>Project Priority</b>	21
<b>Transmission Circuit / Injection Point</b>	George Town Substation
<b>Project</b>	George Town Substation replacement of 220 kV disconnectors with remotely operable disconnectors
<b>Scope of works</b>	Purchase and install seven 220 kV motorised disconnectors complete with remote status indication and remote control facilities.
<b>Reasons to undertake the project</b>	George Town Substation has Transend's largest amount of connected generation and connected load. George Town Substation presently has some manually-operated 220 kV disconnectors that are used for transmission line isolation and bus selection purposes. The call-out time for a switching operator to get to George Town Substation is approximately one hour, thus following a fault event (operation of a circuit breaker), outage time to connected generators and loads can be prolonged until switching is carried out. With all 220 kV switchyard disconnectors being motorised and remote controlled, outage times to customers will be significantly reduced following fault events.
<b>Current value of the limit</b>	Operator call-out and switching time is presently around one hour due to Transend being unable to remotely open or close the selected 220 kV disconnectors at George Town Substation.
<b>Target limit</b>	Provide the capability for Transend's control room staff to perform remote switching of all the disconnector in the 220 kV switchyard of George Town Substation.
<b>Priority project improvement target</b>	Reduced outage time to connected generators and loads following a fault
<b>Completion date</b>	June 2018
<b>Capital cost</b>	\$3,300,000
<b>Operational cost</b>	\$0
<b>Market Benefit</b>	In the event of a sustained fault the switching times at George Town 220 kV Substation would be significantly reduced from over one hour to less than five minutes thereby significantly reducing the supply restoration times for associated customers. The annualised market benefit of this project is approximately \$80,000.