Investment Evaluation Summary (IES)

Project Details:



Project Name:	Replace/relocate High Voltage Overhead due to Vegetation Issues		
Project ID:	00675		
Thread:	verhead		
CAPEX/OPEX:	CAPEX		
Service Classification:	Standard Control		
Scope Type:	В		
Work Category Code:	REHVE		
Work Category Description:	Replace/relocate HV OH (Vegetation)		
Preferred Option Description:	Relocate assets away from heavily vegetated areas.		
Preferred Option Estimate (Nominal Dollars):	\$1,000,000		

	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27
Unit (\$)	N/A									
Volume	1	1	1	1	1	1	1	1	1	1
Estimate (\$)										
Total (\$)	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

Governance:

Project Initiator:	James Fitzgerald	Date:	26/03/2015
Thread Approved:	David Ellis	Date:	02/11/2015
Project Approver:	David Eccles	Date:	30/10/2015

Document Details:

Version Number: 1

Related Documents:

Section 1 (Gated Investment Step 1)

1. Background

The aim of this program is to address the issue of high vegetation maintenance costs in certain areas. Historically, there have been cases where it is more efficient to relocate assets around vegetation rather than managing the vegetation near the assets such as areas where vegetation is protected (national parks) or where there are community or environmental considerations or where there are onerous vegetation management requirements due to bushfire risk management.

This program has been in place for a number of years but as part of Replace HV Feeders (Safety) and Fire Mitigation asset replacements.

There are no major changes to this program however the budget will be developed in response to incoming work only.

1.1 Investment Need

The driver for this program is minimising costs to customers and managing business operating risks (fire).

1.2 Customer Needs or Impact

TasNetworks continues to undertake consumer engagement as part of business as usual and through the Voice of the Customer program. This engagement seeks in depth feedback on specific issues relating to:

- How its prices impact on its services
- Current and future consumer energy use
- Outage experiences (frequency and duration) and expectations
- Communication expectations
- STPIS expectations (reliability standards and incentive payments)
- Increasing understanding of the electricity industry and TasNetworks

Consumers have identified safety, restoration of faults/emergencies and supply reliability as the highest performing services offered by TasNetworks.

Consumers also identified that into the future they believe that affordability, green, communicative, innovative, efficient and reliable services must be provided by TasNetworks.

This project specifically addresses the requirements of consumers in the areas of:

- safety, restoration of faults/emergencies and supply reliability
- affordability, green, communicative, innovative, efficient and reliable services

Customers will continue to be consulted through routine TasNetworks processes, including the Voice of the customer program, the Annual Planning Review and ongoing regular customer liaison meetings.

1.3 Regulatory Considerations

This project is required to achieve the following capital and operational expenditure objectives as described by the National Electricity Rules section 6.5.7(a) and 6.5.6(a).

- 6.5.7 (a) Forecast capital expenditure
- (1) meet or manage the expected demand for standard control services over that period;
- (2) comply with all applicable regulatory obligations or requirements associated with the provision of standard control services;
- (3) to the extent that there is no applicable regulatory obligation or requirement in relation to:

- (i) the quality, reliability or security of supply of standard control services; or
- (ii) the reliability or security of the distribution system through the supply of standard control services, to the relevant extent:
- (iii) maintain the quality, reliability and security of supply of standard control services; and
- (iv) maintain the reliability and security of the distribution system through the supply of standard control services; and
- (4) maintain the safety of the distribution system through the supply of standard control services.

2. Project Objectives

To relocate assets away from heavily vegetated areas.

3. Strategic Alignment

3.1 Business Objectives

Strategic and operational performance objectives relevant to this project are derived from TasNetworks 2014 Corporate Plan, approved by the board in 2014. This project is relevant to the following areas of the corporate plan:

- We understand our customers by making them central to all we do;
- We enable our people to deliver value; and
- We care for our assets, delivering safe and reliable networks services while transforming our business.

3.2 Business Initiatives

The business initiatives that relate to this project are as follows:

- Safety of our people and the community, while reliably providing network services, is fundamental to the TasNetworks business and remains our immediate priority
- We care for our assets to ensure they deliver safe and reliable network services
- We will transform our business with a focus on:
- An appropriate approach to the management and allocation of risk
- The strategic key performance indicators that will be impacted through undertaking this project are as follows:
- Customer engagement and service customer net promoter score
- Price for customers lowest sustainable prices
- Culture and people engagement Culture score
- Zero harm significant and reportable incidents
- Network service performance meet network planning standards
- Network service performance outcomes under service target performance incentive schemes
- Sustainable cost reduction efficient operating and capital expenditure

4. Current Risk Evaluation

Do nothing is not an acceptable option to TasNetworks' risk appetite. The level of risk identified above is such that a treatment plan is required to reduce the risks to a tolerable level, in line with TasNetworks' Risk Management Framework.

4.1 5x5 Risk Matrix

TasNetworks business risks are analysed utilising the 5x5 corporate risk matrix, as outlined in TasNetworks Risk Management Framework.

Relevant strategic business risk factors that apply are follows:

Risk Category	Risk	Likelihood	Consequence	Risk Rating
Environment and Community	Risk of vegetation contacting conductor and starting a bushfire resulting loss to property.	Unlikely	Severe	High
Reputation	Risk of vegetation contacting conductor and starting a bushfire resulting with significant media coverage.	Possible	Major	High
Safety and People	Risk of vegetation contacting conductor and starting a bushfire resulting in injury or death to member of the public.	Unlikely	Severe	High

Section 1 Approvals (Gated Investment Step 1)

Project Initiator:	James Fitzgerald	Date:	26/03/2015	
Line Manager:		Date:		
Manager (Network Projects) or Group/Business Manager (Non-network projects):		Date:		
[Send this signed and endorsed summary to the Capital Works Program Coordinator.]				

Actions		
CWP Project Manager commenced initiation:	Assigned CW Project Manager:	
PI notified project initiation commenced:	Actioned by:	

Section 2 (Gated Investment Step 2)

5. Preferred Option:

To relocate assets away from heavily vegetated areas.

5.1 Scope

The work to be undertaken shall be the relocation of assets to alleviate excessive vegetation trimming or removal.

5.2 Expected outcomes and benefits

- 1. Reduced environmental and safety risk
- 2. Reduced replacement cost (since not reactive)

5.3 Regulatory Test

6. Options Analysis

6.1 Option Summary

Option description	
Option 0	Do nothing
Option 1 (preferred)	Relocate assets away from heavily vegetated areas.

6.2 Summary of Drivers

Option	
Option 0	Unacceptable risk to the public and environment from vegetation contacting conductors.
Option 1 (preferred)	Mitigation against the risk of vegetation contacting conductors.

6.3 Summary of Costs

Option	Total Cost (\$)
Option 0	\$0
Option 1 (preferred)	\$1,000,000

6.4 Summary of Risk

This section outlines an overall residual asset risk level, for each of the options.

Option	Risk Assessment
Option 0	High

[Option 1	Medium

6.5 Economic analysis

Option	Description	NPV
Option 0	Do nothing	\$0
Option 1 (preferred)	Relocate assets away from heavily vegetated areas.	\$1,000,000

6.5.1 Quantitative Risk Analysis

- 6.5.2 Benchmarking
- 6.5.3 Expert findings
- 6.5.4 Assumptions

Section 2 Approvals (Gated Investment Step 2)

Project Initiator:	James Fitzgerald	Date:	26/03/2015
Project Manager:		Date:	

Actions						
Submitted for CIRT review:		Actioned by:				
CIRT outcome:						