

To: Board of Directors
From: Gary McNeil
Managing Director, GO Transit
Leslie Woo
Vice President, Policy and Planning
Date: June 29th, 2010
Re: GO System Electrification Study Update

RECOMMENDATIONS

This report is submitted for information purposes

1.0 Background:

On May 26th 2009, Metrolinx announced its intent to undertake a study of the electrification of its entire GO Transit rail system as a future alternative to diesel trains currently in service.

This study is to be significantly more comprehensive and detailed than a traditional cost benefit analysis, including an examination of the economic, social, environmental, health, and technological factors for the diesel, electric and other alternative technologies.

The Study Terms of Reference were approved by the Metrolinx Board on October 20, 2009 and the RFP was issued to retain a consultant to undertake the study. The RFP closed on November 26th, 2009.

The Delcan + Arup Joint Venture team was successful and it is structured to address the study's challenges and requirements. The Delcan + Arup Joint Venture was retained and started work on January 4th, 2010

2.0 Project Status:

Milestones for the first quarter of 2010/11 include:

- Reference Case Confirmed
- Stakeholder Workshop #1 March 31st
- Refined Objectives based on feedback from the Stakeholder Workshop
- Rolling Stock Technology Assessment Paper

The Electrification Study website (<http://www.go transit.com/estudy/en/default.aspx>) has been redesigned. It is updated regularly and includes the documents referenced above. The website also includes summaries of consultations completed to date, and will have the capacity for online feedback

Stakeholder Workshop #1 -Invitation List

http://www.gotransit.com/estudy/en/current_study/docs/March_2010_Stakeholder_Workshop_Invitation_List.pdf

Stakeholder Workshop #1 Summary

http://www.gotransit.com/estudy/en/current_study/docs/May_2010_Stakeholder_Workshop_Summary.pdf

Rolling Stock Technology Report

http://www.gotransit.com/estudy/en/current_study/docs/Rolling_Stock_Technology_Report_FINAL080610.pdf

The Electrification Study has been divided into five phases:

Phase I: Project Initiation (January 2010) – project initiation

Status: Completed

Phase II: Baseline and Reference Case (late January – late March) – Objectives, Baseline Conditions, Pre-screening criteria

Status:

- Baseline Conditions – this work is well underway and includes the physical infrastructure, service, operating and maintenance plans as well as regulatory conditions.
- Reference Case – work completed to define base case for identifying and comparing diesel and electric rolling stock technologies that could be used for future GO rail services.

Phase III: Options Development (late March – late June) – Development of up to a maximum of 16 technology/corridor/network scenarios.

Status:

- Detail technology and global trends, eliminated technology options based on proven technology/commercial viability/compatibility with Reference Case.
- Preliminary analysis to determine the long list of network options.
- Develop methodology for assessing environment/health/community and land use impacts.

Phase IV: Shortlisting of Options (mid June – mid September) – Scenario screening and short-listing of scenarios.

Phase V: Detailed Assessment, Findings and Conclusions (mid October – late December)

Public / Stakeholder Consultations

The Stakeholder Communication and Consultation Plan for the Study was provided in the February Report and is available on the website.

Stakeholder Meeting #1: March 31st, 2010

Georgetown Public Update Meeting: May 27th, 2010

Stakeholder Meeting #2: June 15th, 2010

Community Advisory Committee Update – July 7th, 2010

Stakeholder Meeting #3: September, 2010

Stakeholder Meeting #4: November, 2010

3.0 Financial Implications:

The cost of undertaking the study is included in the 2010/11 budget.

4.0 Interrelationships:

Further to previous Board report outlining the connections with the Benefits Case Analysis, the capacity study at Union Station and the ongoing modelling and forecasting, the Electrification Study will also be an important input into the Priority Project Framework analysis.

5.0 Communications:

The Electrification Study website has been redesigned and was re-launched in April. It is updated regularly. The website includes summaries of consultations completed to date, and will have the capacity for online feedback.

CONCLUSIONS AND NEXT STEPS

Staff will report back at each Board meeting with an update on the progress of the Electrification Study.

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