

Evergreen Line Rapid Transit Project



Project Overview

The Evergreen Line is an 11-kilometre extension to the existing SkyTrain system in Metro Vancouver. Seamlessly integrating with the Millennium Line at Lougheed Town Centre Station, it will provide a fast, frequent and convenient rapid transit service to Port Moody and Coquitlam, and will integrate with regional bus and West Coast Express networks. The Evergreen Line is an integral part of the Provincial Transit Plan and the broader regional planning objectives of Metro Vancouver, which include connecting regional centres with rapid transit to achieve sustainable growth.

SkyTrain technology was chosen for the Evergreen Line because it is estimated to have two and a half times more ridership than a Light Rail Transit (LRT) system, it will provide a direct connection without transfer onto the Millennium Line, and it is almost twice as fast as LRT.

The Evergreen Line involves the design and construction of the guideway and an approximately two-kilometre bored tunnel, an expansion of the existing Lougheed Town Centre Station, six new stations; provision for two potential future stations and a vehicle storage facility.

Twenty-eight new SkyTrain vehicles will be procured to accommodate the Evergreen Line service, transit integration facilities will be provided, and fare collection and faregate equipment will be installed at stations as part of the overall Project scope.

"The Evergreen Line is an important rapid transit project in Metro Vancouver that will generate jobs, connect communities and provide more transportation options for families."

- Todd Stone, Minister of Transportation and Infrastructure

Partnership Highlights

In December 2012, the Province of British Columbia entered into a performance-based, fixed price project agreement with the private partner (EGRT Construction) to design, build and finance the guideway, tunnel and stations; install the automatic train control and other systems; and test and commission the Evergreen line. The term of the contract is approximately 3.5 years and it has a fixed price of \$889 million.

The Evergreen Line is a complex project to design and build with long-term risks, such as challenging ground conditions. The performance-based fixed-price agreement transfers key design and construction risks, such as cost and schedule, to EGRT Construction.

Expected Benefits

As an extension of the SkyTrain system, the Evergreen Line uses Advanced Light Rapid Transit (ALRT) technology, which is automated, driverless and runs along a separate, dedicated guideway. The Evergreen line will have a maximum operating speed of 80 km per hour, will run every three minutes during peak periods, and will operate about 20 hours per day.

The Evergreen Line will improve the movement of people, increase transportation choice and provide better connections between regional centres in Metro Vancouver, while also supporting environmental sustainability objectives. The new Line is expected to remove 40,000 cars from the road by 2021.

Significant future residential and commercial development is also expected as a direct result of the Evergreen Line.

By delivering the Project using a DBF partnership model, value for money for taxpayers will be achieved. In financial terms, the partnership model is expected to achieve value for money for taxpayers of \$134 million (net present cost) or 10.1 per cent.

The significant factors in achieving this value for money include efficiencies from the integration of the design and construction and effective risk transfer. Other factors include the innovative construction methodologies put forward by the private partner, particularly the use of a single bore tunnel rather than a twin bore tunnel. The private partner also brought forward excellent financing rates, contributing to the value for money achieved.

Public Sector Partner

Ministry of Transportation and Infrastructure

Private Sector Partner

EGRT Construction

- SNC-Lavalin Inc.
- Jacobs Associates Canada Corporation
- S.E.L.I. Canada Inc.
- Graham Building Services
- SNC-Lavalin Constructors (Pacific) Inc.
- MMM Group Ltd.
- International Bridge Technologies Inc.
- Rizzani de Eccher Inc.
- SNC-Lavalin Constructors (Western) Inc.

Partnership BC's Role

Partnerships BC acted as the procurement manager for this project.



Evergreen Line Alignment