



PORT METRO
vancouver

Gateway Infrastructure Fee

Annual Report

For the year ended December 31, 2014

Canada

CFO's Message

We have prepared this report in line with a commitment that Port Metro Vancouver ("PMV") made to industry during the Gateway Infrastructure Fee ("GIF") consultation process in 2010, when PMV stated that the GIF would only be used as a cost recovery mechanism and that the program would be transparent.

PMV developed the Gateway Infrastructure Program ("GIP") to invest in supply chain improvements beyond traditional port activities and lands. The GIP is comprised of 17 projects that make up a \$717 million dollar capital investment program that brings benefits to industry and local communities surrounding the Port. The projects included in the GIP were developed in consultation with Port stakeholders and supported by independent analysis.

Benefits to industry include enhanced efficiency and safety of rail operations, and increased ability for the Port to accommodate anticipated growth in trade-related traffic. Additionally, through prefunding the industry portion, PMV has secured \$3 million from other agencies for every \$1 million PMV and its industry customers and stakeholders are investing. Local communities also benefit from GIP in a number of ways, including improved local traffic flows, improved traffic safety, better emergency vehicle access, reduced train whistling, and reduced vehicle idling at level crossings. The citizens of Canada benefit as the Port will be able to improve Canada's national trade competitiveness and increase economic growth.

The 17 projects were led by a variety of funding partners from both industry and government and I'm pleased to note that, as of the end of 2014, all projects have either been completed or have reached "substantial completion". The Low Level Road and South Shore Corridor projects were substantially completed in 2014 and only require minor enhancements for final completion in 2015. In 2014, the Powell Street Overpass and the 232nd Street Overpass were completed on time and on budget. Funding provided by the Government of Canada through the Asia Pacific Gateway and Corridor Initiative and the Infrastructure Stimulus Funding programs ensured that these project milestones could be achieved in 2014. These infrastructure projects have provided increased goods movement efficiencies for communities and have increased the safety of drivers, cyclists and pedestrians as a result of improvements to roads and intersections. Port tenants, port workers, trucking and local communities are experiencing the benefits of reduced congestion and improved travel time reliability.

During the development of the GIP, PMV agreed to pre-fund \$167 million of costs on behalf of industry. PMV will contribute 10 per cent towards the overall industry component of the GIP projects and will recover the remaining 90 per cent from industry stakeholders through the GIF. The fee is being collected by all 19 of PMV's terminal partners across three trade areas.

The 2016 GIF rates shown in this year's report (see page 11) reflect lower project costs and higher cargo volumes than originally forecast. I am happy to report that our currently proposed 2016 rates are much lower than what was thought required when the GIP was first launched.

PMV will continue to prepare and distribute GIF Annual Reports going forward to ensure that the fee remains transparent to stakeholders and customers.



Allan Baydala
Chief Financial Officer
Port Metro Vancouver

Projects Completed in 2014

Powell Street Overpass/Grade Separation

Before



Complete



Low Level Road

Before



Substantially Complete



232nd Street Overpass

Before



Complete



Gateway Infrastructure Fee Update

The GIF is a \$717 million dollar capital investment program that consists of 17 projects designed to bring important benefits to the Port industry and the communities surrounding the Port. Further information on the GIF projects can be found at:

www.portmetrovanancouver.com/en/projects/Gateway_Infrastructure_Program/GIP.aspx

www.robertsbankrailcorridor.ca

Current Rates

PMV officially announced the implementation of the GIF on October 29, 2010. In that announcement, PMV established rates covering a four year time horizon, from January 1, 2011 to December 31, 2014. The GIF rates announced are shown below including the rate for 2015. Additional information can be found in PMV's Fee Document at:

www.portmetrovanancouver.com/en/users/fees.aspx

Containerized Cargo Rates:

Gateway Infrastructure Fee – Fee Payable per TEU					
Trade Area	2011	2012	2013	2014	2015
North Shore Trade Area	\$0.50	\$0.50	\$1.00	\$1.00	\$1.33
South Shore Trade Area	\$0.50	\$0.50	\$1.00	\$1.00	\$1.84
Roberts Bank Rail Corridor	\$0.30	\$0.30	\$0.60	\$0.60	\$0.55

Non-Containerized Cargo Rates:

Gateway Infrastructure Fee					
Trade Area	2011	2012	2013	2014	2015
North Shore Trade Area					
- Breakbulk lumber rates per MFBM	\$0.07	\$0.07	\$0.14	\$0.14	\$0.11
- Breakbulk log rates per MFBM-Scribner	\$0.19	\$0.19	\$0.38	\$0.38	\$0.31
- Other cargo rates per metric tonne	\$0.05	\$0.05	\$0.10	\$0.10	\$0.08
South Shore Trade Area					
- Cargo rates per metric tonne	\$0.05	\$0.05	\$0.10	\$0.10	\$0.18
Roberts Bank Rail Corridor					
- Cargo rates per metric tonne	\$0.03	\$0.03	\$0.06	\$0.06	\$0.06

PMV's GIF rates were set to enable it to recover 90% of the costs that it expected to contribute on behalf of industry to the GIF. GIF rates were based on a series of assumptions, including total GIF spending, volumes of goods moving through the trade corridors, interest rates, and others.

2014 Volumes and Revenues

The following tables show how PMV's expectations for trade corridor volumes, fee revenues and program spending in 2014 compare to actual results.

Table A – PMV 2014 Volumes Subject to GIF

Trade Area	Total Metric Tonnes (in 000s)		
	Actual	Forecast ^(A)	Variance
North Shore	33,048	20,598	12,450
South Shore	21,053	17,558	3,495
Roberts Bank	44,117	29,840	14,277
Total	98,218	67,996	30,222

(A) Equal to average actual volumes from 2008-9.

Table B – PMV 2014 GIF Revenues (in \$000s)

Trade Area	Actual ^(A)	Forecast	Variance
North Shore	\$3,281	\$2,060	\$1,221
South Shore	\$2,119	\$1,800	\$319
Roberts Bank	\$2,743	\$1,813	\$930
Total	\$8,143	\$5,673	\$2,470

(A) Taken from Note 21 of the VFPA's 2014 Audited Financial Statements.

Actual trade corridor volumes were higher than originally estimated in 2010 due to growth in both containerized and non-containerized traffic. As a result of this growth, revenues also exceeded expectations.

2014 Expenditures

In 2014, spending on active projects was approximately \$45 million, as shown in the table below.

Table C – PMV 2014 GIP Expenditures (in \$000s)

Trade Area / Project	Actual ^(A)	Forecast	Variance
North Shore			
Lynn Creek Rail Bridge			
Brooksbank Avenue Underpass ^(B)	(\$133)	\$30	\$163
Low Level Road Project – combined project	\$11,783	\$19,916	\$8,133
Phillip Avenue Grade Separation ^(C)			
Western Low Level Route Extension to Marine Drive ^(C)			
Subtotal	\$11,650	\$19,946	\$8,296
South Shore			
South Shore Corridor Project ^(D)	\$12,002	\$12,031	\$29
Powell Street Grade Separation	\$10,051	\$13,089	\$3,038
Subtotal	\$22,053	\$25,120	\$3,067
Roberts Bank			
41B Street Rail Overpass			
80 th Street Rail Overpass			
152 nd Street Rail Overpass	\$483	\$947	\$464
Panorama Ridge At-Whistle Cessation	\$660	\$3,112	\$2,452
192 nd Street/54 th Avenue/196 th Street Overpass (“Combo projects”)	\$4,016	\$7,132	\$3,116
64 th Avenue/Mufford Crescent Overpass	\$594	\$800	\$206
232 nd Street Overpass	\$5,108	\$3,118	(\$1,990)
Rail Crossing Information System ^(C)			
Subtotal	\$10,861	\$15,109	\$4,248
Total	\$44,564	\$60,175	\$15,611

(A) The actual expenditure (excluding land contributions and property insurance premiums) was taken from Note 21 of the VFPA’s 2014 Audited Financial Statements.

(B) Includes approximately \$27K in PMV property insurance premiums. Spending is negative due to accrual adjustments.

(C) A GIP project, but PMV is not a funding partner.

(D) Includes approximately \$3.5M in PMV land contributions and \$52.5K in PMV property insurance premiums.

Spending was below forecast as significant construction activity had been undertaken on most projects in 2013 in order to reach scheduled completion in 2014. In 2012, expenditures were under budget as more time was spent on project design and consultation in order to reduce the risks associated with these large scale, multi-stakeholder projects.

PMV contributed land to the North and South Shore Trade Area projects that has significant value. Therefore, PMV will recover 90 percent of the value of its land contributions to the GIF, as was originally proposed. PMV’s land contributions were originally estimated at \$14 million. However, due to changes to project designs and requirements, PMV’s land contributions are now expected to be approximately \$22 million.

Table D - PMV Land Contributions to GIF Projects (in \$000s)

Trade Area / Project	Description	Value	Year Allocated
South Shore			
South Shore Corridor	Estimated loss of lease payments from existing tenants for road widening and relocation.	\$3,514	2012
	License with the City of Vancouver to use portion of Victoria Drive road works on Stewart Street.	\$21	2012
	Estimated loss of lease payments from existing tenants for land that PMV contributed for future rail tracks.	\$3,434	2014
	License with the City of Vancouver to use portion of Victoria Drive for pedestrian overpass.	\$107	2014
Subtotal		\$7,075	
North Shore			
Low Level Road	Land exchange with City of North Vancouver.	\$2,780	2012
Lynn Creek / Brooksbank	Land purchase by PMV.	\$12,245	2016
Subtotal		\$15,025	
Total		\$22,100	

Gateway Infrastructure Fee Rate Outlook

In mid-2010, PMV established GIF rates for the 2011 to 2014 period. Overall, GIF rates are calculated so that, by trade area, PMV recovers, over a 30 year period, GIF expenditures equal to 90% of the amounts that it funds to the GIF projects. Rates for 2011-2014 were set at levels that were projected to gradually step up to the levels required to recover 90% of the GIF capital investments as well as financing and operating costs over the 30 years. Rates were set conservatively low over this four year time horizon so that, in the event the GIF projects were delivered under budget or volumes moving through the trade areas were greater than projected, PMV would not be overcharging industry. Rates were also set for 4 years to give industry some certainty of initial costs. Rates for 2015 and beyond take into account prior volumes and GIF revenues and are set at levels that only allow PMV to recover the remainder of the GIF amounts by 2040.

Program Spending

In order to set the original GIF rates, PMV needed to make a number of assumptions about the future. One was the amount of capital spending required to deliver the 17 GIF projects. The table below compares PMV’s original assumptions back in 2010 about total GIF project spending to revised forecasts as at December 31, 2014.

Table E – Gateway Infrastructure Program Total Spending (in \$000s)

Trade Area / Project	Project Lead	Original GIF Budget	Current Estimate	Variance
North Shore Trade Area				
Lynn Creek Rail Bridge	Port Metro Vancouver	\$21,000	\$16,705	\$4,295
Brooksbank Avenue Underpass	Port Metro Vancouver	\$24,900	\$25,423	(\$523)
Low Level Road Project – combined project	Port Metro Vancouver	\$107,500	\$104,380	\$3,120
Phillip Avenue Grade Separation ^(A)	District of North Vancouver	\$42,600	\$37,400	\$5,200
Western Low Level Route Extension to Marine Drive ^(A)	TBD	\$86,000	\$86,000	\$0
	Subtotal	\$282,800	\$270,708	\$12,092
South Shore Trade Area				
South Shore Corridor Project	PMV	\$79,500	\$82,075	(\$2,575)
Powell Street Grade Separation	City of Vancouver	\$47,500	\$50,000	(\$2,500)
	Subtotal	\$127,000	\$132,075	(\$5,075)
Roberts Bank Rail Corridor				
41B Street Rail Overpass	BC Ministry of Transportation	\$24,000	\$14,945	\$9,055
80 th Street Rail Overpass	Corporation of Delta	\$19,000	\$13,053	\$5,947
152 nd Street Rail Overpass	City of Surrey	\$41,000	\$33,000	\$8,000
Panorama Ridge At-Whistle Cessation	City of Surrey	\$24,000	\$17,700	\$6,300
192 nd Street/54 th Avenue/196 th Street Overpass (“Combo projects”)	City of Surrey	\$117,000	\$123,989	(\$6,989)
64 th Avenue/Mufford Crescent Overpass	BC Ministry of Transportation	\$51,000	\$51,000	\$0
232 nd Street Overpass	Port Metro Vancouver	\$25,000	\$25,500	(\$500)
Rail Crossing Information System ^(A)	Translink	\$1,000	\$2,200	(\$1,200)
Program general	Translink	\$5,000	\$3,500	\$1,500
	Subtotal	\$307,000	\$284,887	\$22,113
	Total	\$716,800	\$687,670	\$29,130

(A) A GIF project, but PMV is not a funding partner.

PORT METRO VANCOUVER | **GIF Annual Report**

Overall, GIP program spending is expected to be approximately \$29 million under budget. These cost savings are expected to flow through to GIP funding partners, including PMV and the stakeholders it is pre-funding. Table F below compares the pre-funding contributions PMV originally expected to make to the GIP projects to its current forecast.

Table F – PMV Pre-Funding Amounts (in \$000s)

Project	Original Forecast	Current Update	Variance
North Shore Trade Area	\$59,000	\$52,940	\$6,060
South Shore Trade Area	\$58,000	\$60,742	(\$2,742)
Roberts Bank Rail Corridor	\$50,000	\$37,182	\$12,818
Total	\$167,000	\$150,864	\$16,136

PMV’s land contributions to the South Shore Trade Area projects are higher than originally estimated. Therefore, GIP program spending is approximately \$3 million over budget for the South Shore Trade Area. PMV’s current forecast of its pre-funding contributions is approximately \$16 million below its original forecast.

Volumes and Recovery

Another important projection PMV made in 2010 when establishing GIF rates was the amount of cargo that was expected to move through the three GIP trade areas. Table G below compares PMV’s original cargo and TEU volume assumptions made in 2010 to its current assumption.

Table G – PMV 2011-2016 Forecast of Volumes Subject to GIF

	Year	2011	2012	2013	2014	2015	2016
Cargo Tonnage (000’s Metric Tonnes)	Prior Estimate ^(A)	49,735	49,735	49,735	49,735	57,218	57,218
	Current Estimate ^(B)	64,310	62,877	69,535	74,575	74,575	74,575
	Variance	14,575	13,143	19,800	24,840	17,357	17,357
Laden Containers (000’s TEUs)	Prior Estimate ^(A)	1,909	1,909	1,909	1,909	2,485	2,485
	Current Estimate ^(B)	2,163	2,334	2,474	2,471	2,471	2,471
	Variance	254	426	566	562	(14)	(14)

(A) 2011-2014 prior estimates based on average 2008-2009 actual volumes. 2015-2016 prior estimate based on forecast prepared in 2010.

(B) 2011-2014 are actual. Current estimate for 2015-2016 based on 2014 actual volumes.

Higher than originally estimated volumes between 2011 and 2016 will increase GIF recovery over those years (see Table H below). Higher recovery in the initial years of the program will reduce the required recovery and the rates beyond 2016, compared to original estimates.

Table H – GIF Estimated Recovery 2011-2016

YEAR	2011	2012	2013	2014	2015	2016
Prior Recovery Estimate ^(A)	\$2,837	\$2,837	\$5,673	\$5,673	\$6,706	\$6,706
Current Recovery Estimate ^(B)	\$3,426	\$3,574	\$7,598	\$8,143	\$9,145	\$9,236
Variance	\$589	\$737	\$1,925	\$2,470	\$2,439	\$2,530

(A) Prior estimate based on average 2008-2009 actual volumes. 2015-2016 prior estimate based on forecast prepared in 2010.

(B) 2011-2014 are actual. Current estimate for 2015-2016 based on 2014 actual volumes. 2016 estimate based on rates in Table I and J.

Ongoing Financing and Operating Costs

PMV's ongoing financing and operating costs incurred on the GIP projects are to be recovered through the GIF. The financing costs that PMV is recapturing from the GIF are equal to those that would accrue on 90% of the amounts that PMV is contributing to the GIP projects. The interest rate being used to calculate these financing charges is the 4.63% rate that applies to PMV's \$100 million 10 year bond that was issued in April 2010. This 4.63% rate is the one being used for the purposes of calculating GIP financing charges until PMV's bond matures in April 2020. When PMV's current bond expires, the financing cost will be calculated by applying PMV's then current borrowing rate. PMV's assumptions about GIP financing costs have not changed since 2010.

PMV will be responsible for maintaining some of the GIP projects over the course of their 30 year estimated lives. PMV estimated these maintenance costs to be \$50,000 per annum over the final 20 years of the GIP projects. PMV plans to update this estimate when the assets that PMV will have responsibility to maintain are completed. Works constructed under the GIP that will be owned and operated by PMV upon completion will be insured for property losses. The cost of insurance is calculated as a fixed percentage of the replacement value of the works. The fixed percentage is PMV's current property insurance rate of 0.18%. Premiums are expected to be approximately \$225,000 in 2015 and onwards, as the Neptune Overpass, Lynn Creek Bridge, and South Shore Corridor Road are completed.

2016 Rates

The following tables show GIF rates in place for 2011-2015, plus 2016 GIF rates expected to be announced officially in the 4thth quarter of 2015. The 2016 GIF rates are based on actual 2014 cargo volumes and up to date projections for project expenditures.

Table I - Gateway Infrastructure Fee Rates per TEU – Containerized Cargo

Trade Area	2011/ 2012	2013/ 2014	2015	2016 (Original Est.)	2016 (Current Est.)
North Shore Trade Area	\$0.50	\$1.00	\$1.33	\$2.28	\$0.92
South Shore Trade Area	\$0.50	\$1.00	\$1.84	\$2.28	\$1.86
Roberts Bank Rail Corridor	\$0.30	\$0.60	\$0.55	\$0.83	\$0.53

Table J - Gateway Infrastructure Fee Rates per Metric Tonne – Non-Containerized Cargo

Trade Area	2011/ 2012	2013/ 2014	2015	2016 (Original Est.)	2016 (Current Est.)
North Shore Trade Area					
Breakbulk lumber rates per MFBM	\$0.07	\$0.14	\$0.11	\$0.16	\$0.11
Breakbulk log rates per MFBM-Scribner	\$0.19	\$0.38	\$0.31	\$0.45	\$0.31
Other cargo rates per metric tonne	\$0.05	\$0.10	\$0.08	\$0.12	\$0.08
South Shore Trade Area	\$0.05	\$0.10	\$0.18	\$0.24	\$0.19
Roberts Bank Rail Corridor	\$0.03	\$0.06	\$0.06	\$0.09	\$0.06

After 2016, GIF rates will be re-set to recover 90% of the outstanding GIP costs over the remaining term to 2040. PMV will again update its GIF calculations in 2016 with 2015 volumes and actual project costs, when all projects will be complete, to calculate GIF rates effective January 1, 2017.

PMV will follow a similar process annually thereafter, raising or lowering the GIF rates as necessary, so that PMV only collects GIF fees, on a net basis, that enable it to recapture 90% of the amounts that it prefunded on behalf of industry for the 17 GIP projects. Based on anticipated growth through the gateway, rates are expected to slowly decrease between 2016 and 2040.

Frequently Asked Questions

1. How will GIF rates be calculated for 2016 and beyond?

The GIF rates for 2016 have now been estimated and are shown on page 11 of this report. PMV will review its calculations later in 2015 and update them in 2016 to calculate GIF rates effective January 1, 2017, and annually thereafter, raising or lowering the GIF rates as necessary, so that PMV only collects GIF fees, on a net basis, that enable it to recapture 90% of the amounts that it prefunded on behalf of industry for the 17 GIP projects.

2. How will over/under recovery in each year be addressed?

If GIF revenues in any one year are over expectations, future years GIF rates will be re-set at lower levels to compensate so that the total amount of net GIF revenues PMV collects, on a present value basis, just equals 90% of the present value it contributed to the GIP projects. On the other hand, if GIF revenues in any one year are under expectations, future years GIF rates will be re-set at higher levels.

3. Would a major unforeseen increase or decrease in tonnage moving through one of the 3 trade areas during a year lead to a recalculation of GIF rates during the year?

No. We expect annual recalculations to be sufficient to ensure that, over the 30 year estimated life of the GIP projects, the present value of net GIF revenues will only equal 90% of the present value PMV contributed to the GIP projects.

4. If there is a material change in commodity mix moving through one of the 3 trade areas, will the GIF rate determination process change?

A material change in the commodity mix moving through any one of the three trade areas means that a customer(s) is moving more commodities than expected when the GIF was implemented. Since the customer moving increased cargo is benefiting more from the GIP projects, it's reasonable that they would pay more GIF and PMV would not change the GIF rate determination process to compensate.

5. How will new terminals be introduced into the mix?

If new terminals are developed over the estimated 30 year life of the GIF and benefit directly from the GIP projects, then PMV will apply the GIF to those volumes moving through the new terminals. Increased volumes from new terminals should reduce the GIF rates for all terminals in that trade area, regardless of the commodities each terminal handles.

6. What if the infrastructure lasts longer than the 30 years that you are estimating, or does not last that long? What will happen to the GIF?

PMV believes that 30 years is a conservative estimate of the life of the GIP assets and its GIF program has been designed to enable it to recapture 90% of its pre-funding amounts over these 30 years. If asset lives prove to be either longer or shorter than 30 years, plans are for the GIF to still remain in place for 30 years.

7. What if the infrastructure lasts longer than the 30 years that you are estimating? How will operating costs be recovered after the 30 year period if the GIF is not in place?

As mentioned, plans are for the GIF to remain in place for 30 years until the end of 2040 despite asset lives potentially extending beyond this period. PMV will cover the operating costs of these assets over the duration of their asset lives, even if their asset lives prove to be longer than 30 years, from its general revenues.

8. What will the annual audit process be?

Actual revenue and expenditures in Tables B and C in this report have been extracted from note 21 of the Consolidated Financial Statements of Vancouver Fraser Port Authority for the Year ended December 31, 2014. These financial statements were audited by the independent auditors Ernst & Young LLP and its Independent Auditors Report is included in these financial statements. A complete copy of PMV's 2014 Financial Statements can be found at www.portmetrovanouver.com. The information used to calculate future GIF rates, however, is mostly based on volume forecasts and, as such, has not been audited.

9. Why is PMV recapturing insurance costs of some GIP assets through the GIF?

At the time the GIP projects were being developed, it was unclear who would own the various assets after construction was completed. It was ultimately determined by the various delivery agents that it made the most sense for PMV to own some of the GIP assets. As a prudent asset owner, PMV has elected to insure these assets. The most material insurance costs were for property insurance and 90% of these costs are being recaptured through the GIF, as are other GIP costs that are incurred by PMV as the asset owner.

10. Why is PMV recovering its land costs through the GIF?

PMV has contributed certain land parcels to the GIP projects that were necessary to accommodate the project works. In each case, PMV has either incurred actual out of pocket cash costs to acquire the necessary rights to use the land, or has lost the opportunity to earn rent on these land parcels. Similar to how PMV recovering its cash contributions to the GIP from the GIF, PMV is recovering its land contributions from the GIF as well.