

Nova Scotia Power Inc.
Monthly FAM Reporting
For the Period Ended April 30, 2020

REDACTED

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Nova Scotia Power Inc.
 Monthly FAM Reporting
 Summary of Fuel Costs
 For the Period Ended April 30, 2020
 (millions of dollars)

NSPI (FAM) M-1
 NON-CONFIDENTIAL

	Current Month		Year-to-Date		2020 Budget	
	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Full Year Budget</u>	<u>% of Budget Spent</u>
Fuel for Generation - Domestic Load						
Solid Fuel	\$ 11.9	\$ 20.6	\$ 81.6	\$ 110.4	\$ 243.1	33.6%
Natural Gas	9.5	7.4	40.7	25.0	52.5	77.5%
Biomass	1.3	0.8	2.8	4.3	11.9	23.5%
Bunker C	0.1	0.1	0.8	4.7	5.5	14.5%
Furnace	0.1	0.3	0.9	1.2	2.7	33.3%
Diesel	0.0	0.0	0.1	0.5	0.8	12.5%
Additives	1.0	1.9	5.6	10.3	22.2	25.2%
Subtotal	\$ 23.9	\$ 31.0	\$ 132.5	\$ 156.5	\$ 338.6	39.1%
Import Purchases	4.9	3.2	14.4	10.7	56.9	25.3%
Maritime Link	8.9	12.0	37.0	48.2	144.5	25.6%
Non-Wind IPP Purchases	0.8	1.2	5.4	5.1	13.6	39.7%
Wind Purchases	7.6	6.9	28.8	31.6	82.8	34.8%
COMFIT Purchases	7.5	6.9	27.6	29.9	79.5	34.7%
Fuel for Resale Net Margin	(0.0)	0.0	(0.0)	0.0	0.0	0.0%
Exports	0.0	0.0	1.9	0.0	0.0	0.0%
Fuel and Purchased Power	\$ 53.5	\$ 61.3	\$ 247.7	\$ 282.0	\$ 715.9	34.6%
Water Royalties	0.1	0.1	0.3	0.3	1.0	30.0%
Total Fuel and Purchased Power	\$ 53.6	\$ 61.4	\$ 248.0	\$ 282.3	\$ 717.0	34.6%
Less: ELIADC Revenue	(3.2)	(5.2)	(15.4)	(24.9)	(60.6)	25.4%
Total Fuel and Purchased Power Less ELIADC Revenue	50.4	56.2	232.6	257.5	656.4	35.4%
Less: Export Revenues	0.0	(0.0)	(3.1)	(0.0)	(0.1)	3100.0%
Less: 1PT RTP	(0.0)	(0.0)	(0.1)	(0.10)	(0.6)	16.7%
Less: Shore Power	0.0	(0.0)	0.0	(0.0)	(0.1)	0.0%
Less: Back Up / Top Up	(0.1)	0.0	(0.4)	0.00	0.0	0.0%
Less: GRLF Fuel Costs	(0.0)	(0.0)	(0.1)	(0.44)	(1.7)	5.9%
Loss / (Gain): Foreign exchange - Fuel Other	0.0	0.0	0.0	0.0	0.0	0.0%
Net Fuel and Purchased Power	\$ 50.2	\$ 56.2	\$ 229.0	\$ 256.9	\$ 654.0	35.0%
Total System Requirements (GWh)	860.6	943.4	4,164.1	4,326.4	11,302.0	36.8%
Less: Export Sales and Attributed Losses	(0.1)	(0.2)	(36.0)	(0.2)	(1.9)	1894.7%
Less: GRLF Requirements	(0.7)	(0.6)	(0.8)	(5.1)	(25.1)	3.2%
Less: ELIADC	(56.9)	(92.2)	(268.6)	(352.3)	(1,109.4)	24.2%
Less: Shore Power	0.0	(0.1)	0.0	(0.1)	(1.4)	0.0%
Less: 1PT RTP	(0.2)	(0.6)	(1.2)	(1.4)	(11.5)	10.4%
Less: Back Up / Top Up	(1.6)	(2.1)	(7.3)	(10.5)	(25.1)	29.1%
Less: Losses*	(33.4)	(57.4)	(252.6)	(310.1)	(769.0)	32.8%
Total FAM Sales	767.8	790.2	3,597.6	3,646.7	9,358.5	38.4%

Figures presented are rounded to one decimal place which may cause \$0.1M in rounding differences on some line items.

The FAM Budget reflects the 2020 BCF Compliance filing of \$717.0M.

*Includes losses for all customer classes, with the exception of Export Sales.

Nova Scotia Power Inc.
 Monthly FAM Reporting
 Summary of Cost Recovery
 For the Period Ended April 30, 2020
 (millions of dollars)

NSPI (FAM) M-2
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Base Fuel Component (BCF)

	<u>Actual</u>	<u>Budget</u>
2020 Beginning BCF Balance	-	-
(Over)/Under-recovered Prior to Current Month	(42.64)	(21.82)
(Over)/Under-recovered in Current Month	(9.89)	(4.77)
Balance Yet to be Recovered	(52.53)	(26.60)
(Over)/Under-recovery- Remainder of the Year	N/A	(38.48)
Interest on BCF Balance	(0.80)	(0.39)

Actual Adjustment Component (AA)

	<u>Actual</u>	<u>Budget</u>
2020 Beginning AA Balance	39.20	39.20
Recovered/(Refunded) Prior to Current Month	(1.40)	4.40
Opening Balance as of Apr 1, 2020	40.60	34.80
Recovered/(Refunded) in Current Month	1.14	1.32
Closing Balance as of Apr 30, 2020	39.46	33.48
Recovered/(Refunded) Remainder of the Year	N/A	10.23
Interest on AA Balance	0.90	0.78

Balancing Adjustment Component (BA)

	<u>Actual</u>	<u>Budget</u>
2020 Beginning BA Balance	(154.61)	(154.61)
Recovered/(Refunded) Prior to Current Month	(47.58)	(47.58)
Non-fuel amounts applied to FAM prior to current period	1.02	-
Opening Balance as of Apr 1, 2020	(108.05)	(107.03)
Recovered/(Refunded) in Current Month	(12.93)	(12.82)
Non-fuel amounts applied to FAM in current period	-	-
Closing Balance as of Apr 30, 2020	(95.13)	(94.21)
Recovered/(Refunded) Remainder of the Year	N/A	(90.22)
Interest on BA Balance	(2.55)	(2.55)
FAM Deferral (Over)/Under-Recovery	(110.65)	(89.48)

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The FAM Budget reflects the 2020 BCF Compliance filing of \$717.0M.

Commentary for Month:

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Nova Scotia Power Inc.
Monthly FAM Reporting
2020 Total Accumulated Unrecovered FAM Balance
For the Period Ended April 30, 2020
(millions of dollars)

NSPI (FAM) M-3
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Month	BA Total Outstanding	AA Total Outstanding	BCF Variance		Accumulated Interest	Total Outstanding
			To Current Month	Current Month		
January	(137.7)	40.9	0.0	(17.6)	(0.6)	(115.0)
February	(122.2)	41.7	(17.6)	(13.7)	(1.2)	(113.1)
March	(108.1)	40.6	(31.4)	(11.3)	(1.9)	(112.0)
April	(95.1)	39.5	(42.6)	(9.9)	(2.5)	(110.6)
May	(84.1)	38.3	(52.5)	(7.7)	(3.0)	(109.1)
June	(74.3)	37.1	(60.2)	(2.8)	(3.6)	(103.9)
July	(63.9)	35.9	(63.0)	(4.0)	(4.1)	(99.2)
August	(53.4)	34.6	(67.0)	(3.5)	(4.6)	(93.9)
September	(43.9)	33.5	(70.5)	1.0	(5.1)	(85.0)
October	(33.3)	32.3	(69.5)	0.2	(5.5)	(75.8)
November	(20.6)	30.9	(69.3)	(4.2)	(5.8)	(68.9)
December	(4.1)	29.5	(73.5)	(12.8)	(6.1)	(67.1)

Figures presented are rounded to one decimal place which may cause \$0.1M in rounding differences on some line items

Future months reference NS Power's Forecast from February 2020.

**Nova Scotia Power Inc.
Monthly FAM Reporting
Fuel Policies and Organizational Changes
For the Period Ended April 30, 2020**

**NSPI (FAM) M-4
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Fuel Manual Updates

No Fuel Manual updates to report.

POA Updates

No POA updates to report.

Organizational Updates

No Organizational updates to report.

REDACTED (CONFIDENTIAL INFORMATION REMOVED)

Nova Scotia Power Inc.
 Monthly FAM Reporting
 Mercury Abatement Program
 For the Period Ended April 30, 2020
 (millions of dollars)

NSPI (FAM) M-5
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Generating Unit	Additive Type	Current Month			Year-to-Date		
		Quantity	Cost	\$/MWh ^a	Quantity	Cost	\$/MWh ^a
Lingan - Unit 1	Powder Activated Carbon						
Lingan - Unit 2	Powder Activated Carbon						
Lingan - Unit 3	Powder Activated Carbon						
Lingan - Unit 4	Powder Activated Carbon						
Point Tupper	Powder Activated Carbon						
Trenton 5	Powder Activated Carbon						
Trenton 6	Powder Activated Carbon						
Lingan	Calcium Chloride						
Point Tupper	Calcium Chloride						
Trenton	Calcium Chloride						
Total Costs - Powder Activated Carbon		194,324 kgs	\$0.585		1,530,806 kgs	\$4.228	
Total Costs - Calcium Chloride		29,129 L	\$0.011		247,988 L	\$0.092	
Total Mercury Sorbent Costs			\$0.596			\$4.320	

^a Calculated using actual MWh produced by unit.

Commentary for the month:

YTD emissions are estimated at 22.5 kg. The start of year forecast indicated YTD emissions by April 2020 of 27.5 kg.

NSPI Environmental Report for Mercury Emissions (b)

Annual Limit = 65 kg (c)

Month	Reported this month (d)	Reported last month	Variance	Reason for variance	2019 Actuals (e)
Jan	7.7	7.9	-0.2	Estimated data updated with actual data	8.3
Feb	6.3	6.4	-0.1		8.3
Mar	5.7	6.1	-0.4		10.4
Apr	2.8				5.2
May					
Jun					
Jul					
Aug					
Sep					
Oct					
Nov					
Dec					
Year to Date (f)	22.5	20.4	-0.7		32.2

^b As reported by NSPI's Environmental Services.

^c Province of Nova Scotia Air Quality Regulations - Schedule C section 3(2). Annual limit of 35kg plus mercury diversion credits to a maximum of 30kg as per Schedule C section 7E(3a) for a total of 65kg.

^d This value is an estimate based on incomplete laboratory results and consumption figures. Environmental Services will finalize this result next quarter.

^e Shown for comparative purposes. Figures updated in March to reflect finalized amounts.

^f Figures presented are rounded to one decimal place which may cause \$0.1M in rounding differences on some line items

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Nova Scotia Power Inc.
 Monthly FAM Reporting
 Volume and Pricing Summary
 For the Period Ended April 30, 2020

NSPI (FAM) M-6
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	Current Month			Year-to-Date		2020 Budget
	Actual	Budget	% Change	Actual	Budget	Budget
Solid Fuel						
Solid Fuel Consumption Costs (\$)						
Solid Fuel Consumption (MMBtu)						
Solid Fuel Generation (MWh)						
Solid Fuel Price (\$/MMBtu) ⁽¹⁾						
Solid Fuel Price (\$/MWh)						
Natural Gas						
Natural Gas Consumption Costs (\$)						
Natural Gas Consumption (MMBtu)						
Natural Gas Generation (MWh)						
Natural Gas Price (\$/MMBtu) ⁽¹⁾						
Natural Gas Price (\$/MWh)						
Biomass						
Biomass Consumption Costs (\$)						
Biomass Consumption (MMBtu)						
Biomass Generation (MWh)						
Biomass Price (\$/MMBtu)						
Biomass Price (\$/MWh)						
Bunker						
Bunker Consumption Costs (\$)						
Bunker Consumption (MMBtu)						
Bunker Generation (MWh)						
Bunker Price (\$/MMBtu) ⁽¹⁾						
Bunker Price (\$/MWh)						
Light Fuel Oil						
Light Fuel Oil Consumption Costs (\$)						
Light Fuel Oil Consumption (MMBtu)						
Light Fuel Oil Generation (MWh)						
Light Fuel Oil Price (\$/MMBtu)						
Light Fuel Oil Price (\$/MWh)						
Imports						
Imported Power Volume (MWh) ⁽²⁾						
Imported Power Price (\$/MWh) ⁽¹⁾						
Non-Wind IPP Purchases						
IPP Purchase Volumes (MWh)						
IPP Purchase Price (\$/MWh)						
Wind IPP Purchases						
Wind Purchase Volumes (MWh)						
Wind Purchase Price (\$/MWh)						
COMFIT						
COMFIT Purchase Volumes (MWh)						
COMFIT Purchase Price (\$/MWh)						

The FAM Budget reflects the 2020 BCF Compliance filing of \$717.0M.

Consumption cost totals above are at the forecast effective USD rate for the year. These figures do not include the impact of monthly foreign exchange rate variations that are reflected in Summary of Fuel Costs (Report M-1).

⁽¹⁾ Includes impact of commodity hedge settlements.

⁽²⁾ ML NS Block Imports are not included in the Budget calculation.

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Nova Scotia Power Inc.
 Monthly FAM Reporting
 Volume and Pricing Summary
 For the Period Ended April 30, 2020

NSPI (FAM) M-7
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<u>Category</u>	<u>Variance from budget</u>	<u>Details</u>
Total Fuel and Purchased Power Expense	12.7% below Budget for the month	
Total System Requirements	8.8% below Budget for the month	
Total FAM Sales	2.8% below Budget for the month	April's 767.8 GWh was less than the FAM Budget of 790.2 GWh
Net Fuel and Purchased Power Costs	10.7% below Budget for the month	April's \$50.2M was less than the FAM Budget of \$56.2M
Purchased Power Costs	14.3% above Budget for the month	April's \$20.8M was more than the FAM Budget of \$18.2M. This is due to higher import purchases and increased generation from Wind IPP and COMFIT, partially offset by lower Non-Wind IPP purchases.
Solid Fuel Costs	42.2% below Budget for the month	April's \$11.9M was less than the FAM Budget of \$20.6M. Solid Fuel expenditure was lower primarily as a result of decreased dispatch due to lower load and favourable Natural Gas pricing.
Natural Gas	28.4% above Budget for the month	April's \$9.5M was more than the FAM Budget of \$7.4M. There was increased natural gas dispatch primarily due to favorable pricing relative to other generation sources.
Biomass Fuel Costs	62.5% above Budget for the month	April's \$1.3M was more than the FAM Budget of \$0.8M. Biomass Fuel expenditure was higher as a result of increased generation from Biomass due to favourable pricing compared to alternative generation sources.
Heavy Fuel Oil	At Budget for the month	April's \$0.1M was on Budget for the month.
Mercury Sorbent/Additives	47.4% below Budget for the month	April's \$1.0M was less than the FAM Budget of \$1.9M primarily due to lower volumes consumed as a result of decreased solid fuel dispatch.
Mercury Emissions	Below Budget for the month	April's 2.8kg was lower than the forecast of 4.8kg.

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Nova Scotia Power Inc.
 Monthly FAM Reporting
 ELIADC Tariff Revenue
 For the Period Ended April 30, 2020

NSPI (FAM) M-8

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	Apr \$	Apr MWH
CBL Energy Charge - Fuel & Purchased Power	\$ 2,824,657	49,782
Adjustments	2,081	
Accrual Booked	669,936	11,807
Accrual Reversed	<u>(265,569)</u>	<u>(4,680)</u>
ELIADC in Monthly FAM Report (reported on M-1)	<u>\$ 3,231,105</u>	<u>56,909</u>

ELIADC Report								
Month	CBL Energy Charge (\$)			Total Actual Energy (MWh) ⁽¹⁾	Target Energy (MWh)	CBL Adder (\$)	Var Capital Adder (\$)	Total Billed Charge (\$)
	Fuel & Purchased Power Charge	Variable Operating & Maintenance Charge	Fixed Cost Recovery					
April 2020 Total	\$ 2,824,657	\$ 78,158	\$ 83,635	49,782	█	\$ 115,495	\$ 56,254	\$ 3,158,200



