

Nova Scotia Power Inc.
Monthly FAM Reporting
For the Period Ended September 30, 2023

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Nova Scotia Power Inc.
Monthly FAM Reporting
Summary of Fuel Costs
For the Period Ended September 30, 2023
(millions of dollars)

NSPI (FAM) M-1
NON-CONFIDENTIAL

	Current Month			Year-to-Date			2023 Budget	
	Actual	Forecast ⁽¹⁾	Budget ⁽²⁾	Actual	Forecast ⁽¹⁾	Budget ⁽²⁾	Full Year Budget	% of Budget Spent
Fuel for Generation - Domestic Load								
Solid Fuel	24.7	9.4	11.2	249.5	234.2	218.8	294.3	84.8%
Natural Gas	14.3	17.3	14.3	120.7	123.7	109.7	144.1	83.8%
Biomass	1.8	1.8	1.7	12.5	12.5	16.2	20.8	60.1%
Bunker C	1.7	0.0	0.0	17.6	16.0	10.3	12.3	143.1%
Furnace	0.7	0.1	0.1	4.6	4.0	2.1	2.7	170.4%
Diesel	0.1	2.2	1.8	5.7	7.9	10.9	11.7	48.7%
Additives	0.7	1.0	0.2	8.5	8.7	4.9	6.6	128.8%
GHG Compliance	(15.6)	(20.1)	-	(147.1)	(151.6)	-	-	0.0%
Subtotal	28.3	11.9	29.2	271.9	255.4	373.0	492.5	55.2%
Import Purchases	5.3	5.2	10.2	38.5	38.4	14.8	42.8	90.0%
Maritime Link	17.5	17.5	13.9	121.9	121.9	125.1	166.8	73.1%
Non-Wind IPP Purchases	2.1	2.2	2.5	22.5	22.6	18.0	26.1	86.2%
Wind Purchases	2.5	4.9	5.6	41.3	43.7	53.0	74.2	55.7%
COMFIT Purchases	3.9	5.6	5.6	46.4	48.0	52.0	72.5	64.0%
Fuel for Resale Net Margin	(0.2)	-	-	(0.6)	(0.4)	-	-	0.0%
Exports	0.0	-	-	0.6	0.6	-	-	0.0%
Fuel and Purchased Power	59.5	47.3	67.1	542.5	530.3	635.8	874.9	62.0%
Water Royalties	0.1	0.1	0.1	0.8	0.8	0.8	1.0	80.0%
Total Fuel and Purchased Power	59.5	47.3	67.1	543.3	531.1	636.6	875.9	62.0%
Less: ELIADC Revenue ⁽³⁾	(16.3)	(10.0)	(9.9)	(9.6)	(3.3)	(83.9)	(112.8)	8.5%
Total Fuel and Purchased Power Less ELIADC Revenue	43.3	37.4	57.2	533.7	527.8	552.7	763.1	69.9%
Less: Export Revenues	(0.0)	(0.0)	(0.0)	(0.5)	(0.5)	(0.2)	(0.2)	250.0%
Less: 1PT RTP	(0.1)	(0.0)	(0.0)	(0.7)	(0.6)	(0.3)	(0.4)	175.0%
Less: Shore Power	-	(0.0)	(0.0)	-	(0.0)	(0.0)	(0.1)	0.0%
Less: Back Up / Top Up	(0.3)	(0.1)	(0.2)	(2.1)	(1.9)	(1.8)	(2.4)	87.5%
Less: GRLF Fuel Costs	(0.1)	(0.1)	(0.0)	(0.9)	(0.8)	(0.5)	(0.7)	128.6%
Loss / (Gain): Foreign exchange - Fuel Other	-	-	-	-	-	-	-	0.0%
Net Fuel and Purchased Power	42.7	37.1	56.9	529.6	523.9	549.8	759.3	69.7%
Total System Requirements (GWh)	776.2	752.1	759.3	8,255.5	8,228.7	8,281.1	11,180.6	73.8%
Less: Export Sales and Attributed Losses	(0.5)	(0.3)	(1.2)	(7.5)	(4.7)	(3.9)	(3.9)	192.3%
Less: GRLF Requirements	(2.0)	(1.4)	(0.6)	(11.5)	(10.4)	(9.1)	(12.1)	95.0%
Less: ELIADC	(77.5)	(70.0)	(90.0)	(507.0)	(499.5)	(762.0)	(1,024.0)	49.5%
Less: Shore Power	-	(0.4)	(0.4)	(0.0)	(0.4)	(0.7)	(1.3)	0.0%
Less: 1PT RTP	(1.4)	(1.0)	(0.9)	(10.4)	(10.3)	(7.2)	(10.1)	103.0%
Less: Back Up / Top Up	(3.0)	(1.6)	(1.8)	(23.3)	(22.0)	(19.8)	(26.5)	87.9%
Less: Losses**	(40.0)	(45.0)	(43.7)	(478.0)	(482.9)	(538.3)	(727.4)	65.7%
Total FAM Sales	651.7	632.4	620.7	7,217.8	7,198.5	6,940.1	9,375.4	77.0%

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

(1) The Forecast references NS Power Forecast from August 2023.

(2) The FAM Budget reflects the 2023 GRA Compliance Filing of \$875.9M.

(3) Actual year-to-date includes adjustment related to M11021 decision on July 5, 2023, approval of the 2022 ELIADC Annual report, resulting in an increase in the under-recovery of \$50.9M

**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 September 30, 2023
 (millions of dollars)

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

	<u>Actual</u>	<u>Budget</u>
2023 Beginning BCF Balance	-	-
(Over)/Under-recovered Prior to Current Month	33.6	54.7
(Over)/Under-recovered in Current Month	(2.3)	14.0
Balance Yet to be Recovered	31.3	68.7
(Over)/Under-recovery- Remainder of the Year	N/A	70.7
Interest on BCF Balance	2.0	1.2

Actual Adjustment Component (AA)

	<u>Actual</u>	<u>Budget</u>
2023 Beginning AA Balance	153.9	(39.9)
Recovered/(Refunded) Prior to Current Month	0.0	-
Opening Balance as of Sep 1, 2023	154.0	(39.9)
Recovered/(Refunded) in Current Month	(0.0)	-
Closing Balance as of Sep 30, 2023	154.0	(39.9)
Recovered/(Refunded) Remainder of the Year	N/A	-
Interest on AA Balance	(0.8)	(1.9)

Balancing Adjustment Component (BA)

	<u>Actual</u>	<u>Budget</u>
2023 Beginning BA Balance	153.5	153.6
Recovered/(Refunded) Prior to Current Month	1.4	-
Non-fuel amounts applied to FAM prior to current period	-	-
Opening Balance as of Sep 1, 2023	152.1	153.6
Recovered/(Refunded) in Current Month	(0.0)	-
Non-fuel amounts applied to FAM in current period	-	-
Closing Balance as of Sep 30, 2023	152.1	153.6
Recovered/(Refunded) Remainder of the Year	N/A	-
Interest on BA Balance	4.4	7.3
FAM Deferral (Over)/Under-Recovery	342.9	189.0

Figures presented are rounded to two decimal places which may cause \$0.01M in rounding differences on some line items.

The FAM Budget reflects the 2023 GRA Compliance Filing of \$875.9M and NS Cap-and-Trade compliance costs relief being recognized in the 2022 FAM balance.

Commentary for Month:

Nova Scotia Power Inc.
Monthly FAM Reporting
2023 Total Accumulated Unrecovered FAM Balance
For the Period Ended September 30, 2023
(millions of dollars)

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Month	BA Total Outstanding	AA Total Outstanding	BCF Variance		Accumulated Interest	Total Outstanding
			To Current Month	Current Month		
January	153.5	153.9	0.0	12.3	1.6	321.4
February	152.9	154.0	12.3	19.3	3.4	341.9
March	152.9	154.0	31.6	(150.6)	(6.0)	181.9
April	152.9	154.0	(119.0)	20.1	(4.9)	203.1
May	152.9	154.0	(98.9)	26.3	(3.9)	230.4
June	152.9	154.0	(72.6)	64.1	0.5	298.9
July	152.9	154.0	(8.5)	22.5	2.2	323.1
August	152.1	154.0	14.0	19.6	3.9	343.6
September	152.1	154.0	33.6	(2.3)	5.5	342.9
October	152.1	154.0	31.3	7.9	7.3	352.6
November	152.1	154.0	39.2	11.2	9.1	365.7
December	152.1	154.0	50.4	15.9	11.1	383.5

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

Future months references NS Power Forecast from August 2023.

**Nova Scotia Power Inc.
Monthly FAM Reporting
Fuel Policies and Organizational Changes
For the Period Ended September 30, 2023**

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

No Fuel Manual Updates.

POA Updates

NSUAR Decision (M11127, issued September 6, 2023) approved inclusion of third-party compliance program costs for heavy fuel oil (section 3.2.3) as FAM costs. Template changes to POA Appendix C were also approved including new template A14, revised templates M6 and M8, new template Q13 and revised template Q10.

Organizational Updates

The position of Energy and Dispatch OPT Analyst was filled, effective on Sept 21, 2023.

The Position of an Energy Marketer was filled, effective on Sept 29, 2023.

Nova Scotia Power Inc.
 Monthly FAM Reporting
 Mercury Abatement Program
 For the Period Ended September 30, 2023
 (millions of dollars)

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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		200,683 kgs		\$0.640	2,158,891 kgs		\$6.439
Total Costs - Calcium Chloride		2,041 L		\$0.001	14,434 L		\$0.006
Total Mercury Sorbent Costs				\$0.641			\$6.445

^a Calculated using actual MWh produced by unit.

Commentary for the month:

YTD emissions are estimated at 31.6 kg. The forecast indicated YTD emissions by September 2023 of 23.9 kg.

NSPI Environmental Report for Mercury Emissions (b)

Annual Limit = 45 kg (c)

Month	Reported this month (d)	Reported last month	Variance	Reason for variance	2022 Actuals (e)
Jan	4.4	4.4	0.0	Estimated data updated with actual data	5.4
Feb	4.2	4.2	0.0		4.6
Mar	4.5	4.5	0.0		3.9
Apr	3.7	3.7	0.0		1.7
May	1.9	1.9	0.0		2.3
Jun	2.7	2.7	0.0		4.2
Jul	3.9	4.0	-0.1		4.1
Aug	1.8	2.0	-0.2		5.4
Sep	4.5				5.7
Oct					5.4
Nov					3.5
Dec					5.5
Year to Date (f)	31.6	27.4	-0.3		51.7

^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 10kg as per Schedule C section 7E(3a) for a total of 45kg.

^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.

	Current Month			Year-to-Date		2023 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⁽²⁾						
Imported Power Volume (MWh)						
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)						
Maritime Link						
NS Block & Supplemental Volumes (MWh) ⁽³⁾	68,118	72,800	-6%	942,365	1,151,211	1,470,616

The FAM Budget reflects the 2023 GRA Compliance Filing of \$875.9M.

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⁾ Includes purchased energy via the Energy Access Agreement with Nalcor.

⁽³⁾ Includes make-up energy.

Nova Scotia Power Inc.
Monthly FAM Reporting
Volume and Pricing Summary
For the Period Ended September 30, 2023

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	11.3% below Budget for the month	
Total System Requirements	2.2% above Budget for the month	
Total FAM Sales	5% above Budget for the month	September's 651.7 GWh was more than the FAM Budget of 620.7 GWh.
Net Fuel and Purchased Power Costs	25% below Budget for the month	September's \$42.7M was less than the FAM Budget of \$56.9M.
Purchased Power Costs	42.7% below Budget for the month	September's \$13.7M was less than the FAM Budget of \$23.9M. Purchased Power was lower due a decrease in generation from the Energy Access Agreement, Wind and COMFIT purchases compared to Budget and decrease in non-Maritime Link import pricing since the time of Budget.
Maritime Link	25.9% above Budget for the month	September's \$17.5M was more than the FAM Budget of \$13.9M. This was a direct result of the NSUARB's recent decision to adjust the ML holdback calculation (M11009), which raised fuel costs, as the value of makeup energy received now offsets the replacement costs that were previously deducted from the holdback payable to NSPML.
Solid Fuel Costs	120.5% above Budget for the month	September's \$24.7M was more than the FAM Budget of \$11.2M. Solid Fuel expenditure was higher primarily due to increased generation. The changes in generation was a result of decrease in purchase power including Maritime Link. Additionally, higher commodity cost and higher load led to an increase in fuel costs.
Natural Gas	Equal to the Budget for the month	September's \$14.3M was consistent to the FAM Budget of \$14.3M.
Biomass Fuel Costs	5.9% above Budget for the month	September's \$1.8M was more than the FAM Budget of \$1.7M.
Heavy Fuel Oil	5752.3% above Budget for the month	September's \$1.7M was more than the FAM Budget of \$0.0M driven by higher generation.
Mercury Sorbent/Additives	250% above Budget for the month	September's \$0.7M was more than the FAM Budget of \$0.2M.
GHG Compliance	100% above Budget for the month	September's \$15.6M recovery was more than the FAM Budget of \$0.0M, due to the change in OBPS calculation from net generation to gross generation.
Mercury Emissions	Above Budget for the month	September's 4.5 kg was more than the Budget of 0.8 kg.

<u>Category</u>	<u>Variance from Forecast</u>	<u>Details</u>
Total Fuel and Purchased Power Expense	25.8% above Forecast for the month	
Total System Requirements	3.2% above Forecast for the month	
Total FAM Sales	3.1% above Forecast for the month	September's 651.7 GWh was more than the Forecast of 632.4 GWh.
Net Fuel and Purchased Power Costs	15.1% above Forecast for the month	September's \$42.7M was more than the Forecast of \$33.2M.
Purchased Power Costs	23.5% below Forecast for the month	September's \$13.7M was less than the Forecast of \$17.9M. Purchased Power was lower due to an decrease in the amount IPP Wind and COMFIT purchases compared to Forecast.
Maritime Link	Equal to the Forecast for the month	September's \$17.5M was more consistant with the Forecast of \$17.5M.
Solid Fuel Costs	162.8% above Forecast for the month	September's \$24.7M was more than the Forecast of \$9.4M. Solid Fuel expenditure was higher primarily due to increased generation. The change in generation was a result of the lower Maritime Link deliveries, natural gas generation, IPP wind and COMFIT purchases compared to Forecast. Additionally, higher commodity pricing and load led to an increase in fuel costs.
Natural Gas	17.3% below Forecast for the month	September's \$14.3M was less than the Forecast of \$17.3M. Natural gas expenditure was lower primarily due to decreased generation resulting from higher generation from solid fuel, non-Maritime Link imports, and HFO compared to Forecast.
Biomass Fuel Costs	Equal to the Forecast for the month	September's \$1.8M was consistent with the Forecast of \$1.8M.
Heavy Fuel Oil	3625.6% above Forecast for the month	September's \$1.7M was more than the Forecast of \$0.0M driven by higher generation.
Mercury Sorbent/Additives	30% below Forecast for the month	September's \$0.7M was less than the Forecast of \$1.0M.
GHG Compliance	22.4% below Forecast for the month	September's \$15.6M recovery was less than the Forecast \$20.1M recovery, due to a change in OBPS gross generation calculation.

Nova Scotia Power Inc.
 Monthly FAM Reporting
 ELIADC Tariff Revenue
 For the Period Ended September 30, 2023

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	September \$	September MWH
CBL Energy Charge - Fuel & Purchased Power ⁽¹⁾	\$ 4,293,674	75,659
Adjustment - Q3 2023 ⁽²⁾	10,310,196	
Fuel Cost Recovery Instalment Payment	1,513,189	
Accrual Booked	994,701	12,960
Accrual Reversed	(850,739)	(11,085)
ELIADC in Monthly FAM Report (reported on M-1)	\$ 16,261,020	77,535

ELIADC Report								
Month	CBL Energy Charge (\$)			Total Actual Energy (MWh) ⁽¹⁾	Target Energy (MWh)	CBL Adder (\$)		Total Billed Charge (\$)
	Fuel & Purchased Power Charge	Variable Operating & Maintenance	Fixed Cost Recovery (\$)			Fixed Cost Recovery	Var Capital Adder (\$) ⁽⁵⁾	
September 2023	\$ 4,293,674	\$ 80,199	\$ 13,619	75,659		\$ 289,019	\$ 226,978	\$ 4,903,489

⁽²⁾ The 2023 adjustment is related to a provision recorded for 2023 for ADC differential and is based upon the new methodology approved by NSUARB. The amount will be finalized with the 2023 Annual ELIADC Report.

Product	Buy/Sell	Date/Time	Volume ⁽²⁾	Price ⁽¹⁾	Cost/(Revenue) ⁽¹⁾
[REDACTED]					

Product	Buy/Sell	Date/Time	Volume ⁽²⁾	Price ⁽¹⁾	Cost/(Revenue) ⁽¹⁾
[REDACTED]					

Product	Buy/Sell	Date/Time	Volume ⁽²⁾	Price ⁽¹⁾	Cost/(Revenue) ⁽¹⁾

Product	Buy/Sell	Date/Time	Volume ⁽²⁾	Price ⁽¹⁾	Cost/(Revenue) ⁽¹⁾

Product	Buy/Sell	Date/Time	Volume ⁽²⁾	Price ⁽¹⁾	Cost/(Revenue) ⁽¹⁾
[REDACTED]					

Product	Buy/Sell	Date/Time	Volume ⁽²⁾	Price ⁽¹⁾	Cost/(Revenue) ⁽¹⁾

Product	Buy/Sell	Date/Time	Volume ⁽²⁾	Price ⁽¹⁾	Cost/(Revenue) ⁽¹⁾

⁽¹⁾ Transactions are denoted in \$USD.

⁽²⁾ Power and natural gas transactions are measured in MWh and MMBtu, respectively.

⁽³⁾ ISO Fee adjustment related to July 2023 Report