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COMPANY NAME:

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250 SW Taylor Street  
Portland, OR 97204

503-226-4211  
nwnatural.com

March 23, 2021

**VIA ELECTRONIC FILING**

Public Utility Commission of Oregon  
Attention: Filing Center  
201 High Street SE, Suite 100  
Post Office Box 1088  
Salem, Oregon 97308-1088

**Re: RG 2 - NW Natural's 2020 Smart Energy™ Reconciliation Report**

Northwest Natural Gas Company, dba NW Natural (Company), files herewith its 2020 Smart Energy™ Reconciliation Report for the program year January 1, 2020 through December 31, 2020, as requested by the Portfolio Options Committee, which oversees and advises the Company's offset program.

Please address any correspondence on this matter to me with copies to the following:

eFiling  
Rates & Regulatory Affairs  
NW Natural  
250 SW Taylor Street  
Portland, Oregon 97204  
Telephone: (503) 610-7330  
eFiling@nwnatural.com

Sincerely,

*/s/ Rebecca T. Brown*

Rebecca T. Brown  
Regulatory Consultant  
503-610-7326

Enclosure

## Smart Energy Product Reporting

### Demand Reconciliation

For the period of January 1, 2020 – December 31, 2020

**Table 1:** Participating Customer Billings & Resulting Greenhouse Gas Offsets

Calendar Year	Smart Energy Funds Billed	Therms to be offset	Obligation short tons
2020	\$3,438,398.33 <sup>1</sup>	32,790,371.26	191,823.67

11.7 pounds per therm based on the recognized standard of U.S. Energy Information Administration  
170.94 therms per short ton

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<sup>1</sup> Collections, net of uncollectable allowance

## Smart Energy Product Reporting

### Supply Reconciliation

For the period of January 1, 2020 – December 31, 2020

**Table 2:** Offset Obligations & Retirements

Calendar	Offset Activity	Short Tons
Year	Obligations	113,832.32
2020	Retirements	356,663.5

## Smart Energy Offset Project Obligations

### Totals By Project

Project	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Bettencourt Dairy - B6	81,958	90,342.30	81,958	90,342.30	0	0.00
City of Astoria - Bear Creek	100,000	110,230.00	100,000	110,230.00	0	0.00
Castelanelli Brothers Dairy - Castelanelli	15,000	16,534.50	11,295	12,450.48	(3,705)	(4,084.02)
Element Markets - Davis LFG	177,325	195,465.35	177,325	195,465.35	0	0.00
Revolution Energy Solutions - Lochmead Farms	17,199	18,958.46	17,199	18,958.46	0	0.00
Farm Power - Lynden	20,000	22,046.00	20,000	22,046.00	0	0.00
Farm Power - Misty Meadow	119,134	131,321.41	89,134	98,252.41	(30,000)	(33,069.00)
J.R. Simplot - Moses Lake	126,476	139,414.50	128,320	141,447.14	1,844	2,032.64
J.R. Simplot - Moses Lake 2	131,934	145,430.85	71,934	79,292.85	(60,000)	(66,138.00)
Revolution Energy Solutions - Oak Lea	23,250	25,628.46	11,507	12,684.17	(11,743)	(12,944.29)
Farm Power - Rexville	71,246	78,534.43	71,246	78,534.47	0	0.04
Farm Power - Tillamook	91,173	100,500.00	63,719	70,237.45	(27,454)	(30,262.55)
TMF Biofuels - TMF Biofuels	15,000	16,534.50	15,000	16,534.50	0	0.00
Mass Energy Works - Van Warmerdam	39,174	43,181.50	23,610	26,025.30	(15,564)	(17,156.20)
Intrepid Technology Resources - Whitesides Dairy	17,067	18,812.95	17,067	18,812.95	0	0.00
<b>Total:</b>	<b>1,045,936</b>	<b>1,152,935.21</b>	<b>899,314</b>	<b>991,313.82</b>	<b>(146,622)</b>	<b>(161,621.39)</b>

## Smart Energy Offset Vintage Obligations

### Totals By Project and Authorization

Begin Date: 1/1/2020

End Date: 12/31/2020

Bettencourt Dairy - B6, Site Location: Gooding ID					Project Type: Dairy		
AU-3D-B6-1.1.1	Authorized		Retired		Balance		
2/7/2020	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	
Vintage							
2019	18,937	20,874.26	18,937	20,874.26	0	0.00	
<b>Total Auth:</b>	<b>18,937</b>	<b>20,874.26</b>	<b>18,937</b>	<b>20,874.26</b>	<b>0</b>	<b>0.00</b>	

**Project Total:** 18,937 20,874.26 18,937 20,874.26 0 0.00

Element Markets - Davis LFG, Site Location: Layton UT					Project Type: LFG		
AU-EM-DLG-1.1.1	Authorized		Retired		Balance		
6/23/2020	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	
Vintage							
2018	23,903	26,348.28	23,903	26,348.28	0	0.00	
<b>Total Auth:</b>	<b>23,903</b>	<b>26,348.28</b>	<b>23,903</b>	<b>26,348.28</b>	<b>0</b>	<b>0.00</b>	

  

AU-EM-DLG-1.1.2	Authorized		Retired		Balance	
6/23/2020	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Vintage						
2019	23,422	25,818.07	23,422	25,818.07	0	0.00
<b>Total Auth:</b>	<b>23,422</b>	<b>25,818.07</b>	<b>23,422</b>	<b>25,818.07</b>	<b>0</b>	<b>0.00</b>

**Project Total:** 47,325 52,166.35 47,325 52,166.35 0 0.00

## Smart Energy Offset Vintage Obligations

### Totals By Project and Authorization

Begin Date: 1/1/2020

End Date: 12/31/2020

<b>J.R. Simplot - Moses Lake 2, Site Location: Moses Lake WA</b>						<b>Project Type: OWD</b>	
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AU-JRS-ML-2.5 6/23/2020	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2019	13,000	14,329.90	13,000	14,329.90	0	0.00
<b>Total Auth:</b>		<b>13,000</b>	<b>14,329.90</b>	<b>13,000</b>	<b>14,329.90</b>	<b>0</b>	<b>0.00</b>

AU-JRS-ML-2.6 6/25/2020	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2017	5,699	6,282.01	5,699	6,282.01	0	0.00
	2018	3,501	3,859.15	3,501	3,859.15	0	0.00
	2019	924	1,018.53	924	1,018.53	0	0.00
<b>Total Auth:</b>		<b>10,124</b>	<b>11,159.69</b>	<b>10,124</b>	<b>11,159.69</b>	<b>0</b>	<b>0.00</b>

<b>Project Total:</b>	<b>23,124</b>	<b>25,489.59</b>	<b>23,124</b>	<b>25,489.59</b>	<b>0</b>	<b>0.00</b>
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<b>Farm Power - Rexville, Site Location: Mt. Vernon WA</b>						<b>Project Type: Dairy</b>	
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AU-FP-RX-1.2.2 7/7/2020	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2018	2,280	2,513.24	2,280	2,513.24	0	0.00
	2019	11,602	12,788.88	11,602	12,788.88	0	0.00
<b>Total Auth:</b>		<b>13,882</b>	<b>15,302.12</b>	<b>13,882</b>	<b>15,302.13</b>	<b>0</b>	<b>0.01</b>

<b>Project Total:</b>	<b>13,882</b>	<b>15,302.12</b>	<b>13,882</b>	<b>15,302.13</b>	<b>0</b>	<b>0.01</b>
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<b>Grand Total:</b>	<b>103,268</b>	<b>113,832.32</b>	<b>103,268</b>	<b>113,832.32</b>	<b>0</b>	<b>0.00</b>
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## Smart Energy Offset Projects

### Retirement Detail ( 1/1/2020 - 12/31/2020 )

<b>Bettencourt Dairy - B6</b>		<b>Site Location: Gooding</b>		<b>Project Type: Dairy</b>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Estimated Total Project Volume</td> </tr> <tr> <td style="width: 50%;">Metric Tonnes</td> <td style="width: 50%;">Short Tons</td> </tr> <tr> <td style="text-align: center;"><b>164,081</b></td> <td style="text-align: center;"><b>180,866.49</b></td> </tr> </table>		Estimated Total Project Volume		Metric Tonnes	Short Tons	<b>164,081</b>	<b>180,866.49</b>	Standard: Climate Action Reserve	Registry: Climate Action Reserve	Duration: 10 years	
Estimated Total Project Volume											
Metric Tonnes	Short Tons										
<b>164,081</b>	<b>180,866.49</b>										
		Protocol: 4.0	Crediting Period: Initial	Greenhouse Gas: Methane							

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>81,958</b>	<b>90,342.30</b>	<b>81,958</b>	<b>90,342.30</b>	<b>0</b>	<b>0.00</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2019	1/1/2019	7/14/2019	Ruby Canyon Engineering	8/29/2019	11/6/2019	10,000	11,023.00	1/29/2020
Serial Number: CAR-1-US-593-5-207-ID-2019-5868-8938 to 18937 Registry Listing URL:								
2019	1/1/2019	7/14/2019	Ruby Canyon Engineering	8/29/2019	11/6/2019	10,000	11,023.00	2/21/2020
Serial Number: CAR-1-US-593-5-207-ID-2019-5868-18938 to 28937 Registry Listing URL:								
2019	1/1/2019	7/14/2019	Ruby Canyon Engineering	8/29/2019	11/6/2019	8,937	9,851.26	2/21/2020
Serial Number: CAR-1-US-593-5-207-ID-2019-5868-1 to 8937 Registry Listing URL:								

<b>City of Astoria - Bear Creek</b>		<b>Site Location: Astoria</b>		<b>Project Type: IFM</b>	
Estimated Total Project Volume		Standard: American Carbon Registry	Registry: American Carbon Registry	Duration: 10 years	
Metric Tonnes	Short Tons	Protocol: Standard v4.0	Crediting Period: Initial	Greenhouse Gas: CO2	
<b>225,000</b>	<b>248,017.50</b>	IFM methodology v1.1			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>100,000</b>	<b>110,230.00</b>	<b>100,000</b>	<b>110,230.00</b>	<b>0</b>	<b>0.00</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2015	1/1/2014	9/30/2015	Environmental Services, Inc.	9/28/2015	4/15/2016	11,504	12,680.86	12/22/2020
Serial Number: ACR-US-272-2015-422-1 to 11504 Registry Listing URL: <a href="https://acr2.apx.com/myModule/rpt/myrpt.asp?r=111">https://acr2.apx.com/myModule/rpt/myrpt.asp?r=111</a>								
2020	10/1/2015	12/31/2019	S&A Carbon	6/1/2020	10/27/2020	88,496	97,549.14	12/22/2020
Serial Number: ACR-US-272-2020-1144-1 to 88496 Registry Listing URL: <a href="https://acr2.apx.com/myModule/rpt/myrpt.asp?r=111">https://acr2.apx.com/myModule/rpt/myrpt.asp?r=111</a>								

**Castelanelli Brothers Dairy - Castelanelli**

Site Location: Lodi

Project Type: Dairy

Estimated Total Project Volume		Standard: American Carbon Registry	Registry: American Carbon Registry	Duration: 10 years
Metric Tonnes	Short Tons	Protocol: 4.0	Crediting Period: Initial	Greenhouse Gas: Methane
<b>105,830</b>	<b>116,656.41</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>15,000</b>	<b>16,534.50</b>	<b>11,295</b>	<b>12,450.48</b>	<b>(3,705)</b>	<b>(4,084.02)</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2019	7/1/2018	12/31/2019	First Environment, Inc.	1/15/2020	3/31/2020	11,295	12,450.48	6/26/2020
Serial Number: ACR-US-408-2019-994-1 to 11295								
Registry Listing URL: <a href="http://www.americancarbonregistry.org">www.americancarbonregistry.org</a>								

**Element Markets - Davis LFG**

**Site Location: Layton**

**Project Type: LFG**

Estimated Total Project Volume		Standard: Climate Action Reserve	Registry: Climate Action Reserve	Duration: 10 years
Metric Tonnes	Short Tons	Protocol: 5.0	Crediting Period: Second	Greenhouse Gas: Methane
<b>400,000</b>	<b>440,920.00</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>177,325</b>	<b>195,465.35</b>	<b>177,325</b>	<b>195,465.35</b>	<b>0</b>	<b>0.00</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2018	1/1/2018	12/31/2018	GHD Services, Inc.	8/6/2019	12/4/2019	23,903	26,348.28	7/20/2020
Serial Number: CAR-1-US-473-4-963-UT-2018-5893-65001 to 88903 Registry Listing URL:								
2019	1/1/2019	12/31/2019	NSF Certification, LLC	3/9/2020	5/21/2020	65,000	71,649.50	6/26/2020
Serial Number: CAR-1-US-473-4-963-UT-2019-6075-1 to 65000 Registry Listing URL:								
2019	1/1/2019	12/31/2019	NSF Certification, LLC	3/9/2020	5/21/2020	23,422	25,818.07	7/20/2020
Serial Number: CAR-1-US-473-4-963-UT-2019-6075-65001 to 88422 Registry Listing URL:								

**Farm Power - Misty Meadow**

**Site Location: Tillamook**

**Project Type: Dairy**

Estimated Total Project Volume		Standard: Climate Action Reserve	Registry: Climate Action Reserve	Duration: 10 years
Metric Tonnes	Short Tons	Protocol: U.S. Livestock Project Protocol, Version 3.0	Crediting Period: Initial	Greenhouse Gas: Methane
<b>93,100</b>	<b>102,624.13</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>119,134</b>	<b>131,321.41</b>	<b>89,134</b>	<b>98,252.41</b>	<b>(30,000)</b>	<b>(33,069.00)</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2019	1/1/2019	12/31/2019	First Environment, Inc.	3/24/2020	5/15/2020	10,000	11,023.00	6/26/2020
Serial Number: CAR-1-US-996-5-212-OR-2019-6086-1 to 10000								
Registry Listing URL:								

**J.R. Simplot - Moses Lake 2**

Site Location: Moses Lake

Project Type: **OWD**

Estimated Total Project Volume		Standard: Verified Carbon Standard	Registry: Markit	Duration: 7 years
Metric Tonnes	Short Tons	Protocol:	Crediting Period: Second	Greenhouse Gas: Methane
<b>196,000</b>	<b>216,050.80</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>131,934</b>	<b>145,430.85</b>	<b>71,934</b>	<b>79,292.85</b>	<b>(60,000)</b>	<b>(66,138.00)</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2017	10/8/2017	7/31/2018	Ruby Canyon Engineering	8/23/2018	10/28/2019	5,699	6,282.01	6/26/2020
Serial Number: 7576-408088224-408093922-VCU-043-MER-US-13-448-08102017-31122017-0 Registry Listing URL:								
2018	8/1/2018	12/31/2019	First Environment, Inc.	1/22/2020	3/13/2020	3,501	3,859.15	6/26/2020
Serial Number: 8079-453277038-453280538-VCU-002-MER-US-13-448-01082018-31122018-0 Registry Listing URL:								
2019	8/1/2018	12/31/2019	First Environment, Inc.	1/22/2020	3/13/2020	15,000	16,534.50	4/1/2020
Serial Number: 8078-453248114-453263113-VCU-002-MER-US-13-448-01012019-31122019-0 Registry Listing URL:								
2019	8/1/2018	12/31/2019	First Environment, Inc.	1/22/2020	3/13/2020	13,000	14,329.90	6/26/2020
Serial Number: 8078-453264038-453277037-VCU-002-MER-US-13-448-01012019-31122019-0 Registry Listing URL:								
2019	8/1/2018	12/31/2019	First Environment, Inc.	1/22/2020	3/13/2020	924	1,018.53	6/26/2020
Serial Number: 8078-453263114-453264037-VCU-002-MER-US-13-448-01012019-31122019-0 Registry Listing URL:								

**Farm Power - Rexville**

**Site Location: Mt. Vernon**

**Project Type: Dairy**

Estimated Total Project Volume		Standard: Climate Action Reserve	Registry: Climate Action Reserve	Duration: 10 years
Metric Tonnes	Short Tons	Protocol: Climate Action Reserve Livestock Protocol 2.0	Crediting Period: Initial	Greenhouse Gas: Methane
<b>116,524</b>	<b>128,444.41</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>71,246</b>	<b>78,534.43</b>	<b>71,246</b>	<b>78,534.47</b>	<b>0</b>	<b>0.04</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2018	9/1/2018	8/11/2019	Ruby Canyon Engineering	1/20/2020	4/20/2020	2,280	2,513.24	7/20/2020
Serial Number: CAR-1-US-416-5-874-WA-2018-6063-1 to 2280 Registry Listing URL:								
2019	9/1/2018	8/11/2019	Ruby Canyon Engineering	1/20/2020	4/20/2020	11,602	12,788.88	7/20/2020
Serial Number: CAR-1-US-416-5-874-WA-2019-6062-1 to 11602 Registry Listing URL:								

**Farm Power - Tillamook**

**Site Location: Tillamook**

**Project Type: Dairy**

Estimated Total Project Volume		Standard: Climate Action Reserve	Registry: Climate Action Reserve	Duration: 10 years
Metric Tonnes	Short Tons	Protocol: U.S. Livestock Project Protocol, Version 3.0	Crediting Period: Initial	Greenhouse Gas: Methane
<b>88,400</b>	<b>97,443.32</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>91,173</b>	<b>100,500.00</b>	<b>63,719</b>	<b>70,237.45</b>	<b>(27,454)</b>	<b>(30,262.55)</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2019	1/1/2019	12/31/2019	First Environment, Inc.	3/24/2020	5/15/2020	9,000	9,920.70	6/26/2020
Serial Number: CAR-1-US-988-5-212-OR-2019-6085-1 to 9000								
Registry Listing URL:								