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COMPANY NAME:

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250 SW Taylor Street  
Portland, OR 97204

503-226-4211  
nwnatural.com

March 30, 2022

**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 2021 Smart Energy™ Reconciliation Report**

Northwest Natural Gas Company, dba NW Natural ("NW Natural" or "Company"), files herewith its 2021 Smart Energy™ Reconciliation Report for the program year January 1, 2021 through December 31, 2021, 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, 2021 – December 31, 2021

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

Calendar Year	Smart Energy Funds Billed	Therms to be offset	Obligation short tons
2021	\$3,905,387.36 <sup>1</sup>	37,243,823.77	217,876.37

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

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

## Smart Energy Product Reporting

### Supply Reconciliation

For the period of January 1, 2021 – December 31, 2021

**Table 2:** Offset Obligations & Retirements

Calendar	Offset Activity	Short Tons
Year	Obligations	555,754.31
2021	Retirements	447,106.11

## 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	131,914	145,408.80	131,914	145,408.80	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	11,295	12,450.48	11,295	12,450.48	0	0.00
Element Markets - Davis LFG	385,325	424,743.75	295,522	325,753.90	(89,803)	(98,989.85)
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	142,037	156,567.39	97,037	106,963.89	(45,000)	(49,603.50)
Revolution Energy Solutions - Oak Lea	11,507	12,684.16	11,507	12,684.17	0	0.01
Farm Power - Rexville	71,246	78,534.43	71,246	78,534.47	0	0.04
Roseburg LFG Energy - Roseburg LFG	30,000	33,069.00	15,226	16,783.62	(14,774)	(16,285.38)
Shaan-Seet, Incorporated - Shaan Seet IFM	80,000	88,184.00	40,000	44,092.00	(40,000)	(44,092.00)
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	30,740	33,884.70	30,740	33,884.70	0	0.00
Intrepid Technology Resources - Whitesides Dairy	17,067	18,812.95	17,067	18,812.95	0	0.00
Port Blakely - Winston Creek IFM	150,000	165,345.00	150,000	165,345.00	0	0.00
<b>Total:</b>	<b>1,550,113</b>	<b>1,708,689.53</b>	<b>1,304,926</b>	<b>1,438,419.93</b>	<b>(245,187)</b>	<b>(270,269.60)</b>

## Smart Energy Offset Vintage Obligations

## Totals By Project and Authorization

Begin Date: 1/1/2021

End Date: 1/1/2099

Bettencourt Dairy - B6, Site Location: Gooding ID						Project Type: Dairy	
AU-3D-B6-1.3 2/19/2021	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2019	21,881	24,119.43	21,881	24,119.43	0	0.00
	2020	4,193	4,621.94	4,193	4,621.94	0	0.00
<b>Total Auth:</b>		<b>26,074</b>	<b>28,741.37</b>	<b>26,074</b>	<b>28,741.37</b>	<b>0</b>	<b>0.00</b>

**Project Total:** 26,074 28,741.37 26,074 28,741.37 0 0.00

Element Markets - Davis LFG, Site Location: Layton UT						Project Type: LFG	
AU-EM-DLG-1.2 6/1/2021	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2020	118,000	130,071.40	118,197	130,288.55	197	217.15
	2021	90,000	99,207.00	0	0.00	(90,000)	(99,207.00)
<b>Total Auth:</b>		<b>208,000</b>	<b>229,278.40</b>	<b>118,197</b>	<b>130,288.55</b>	<b>(89,803)</b>	<b>(98,989.85)</b>

**Project Total:** 208,000 229,278.40 118,197 130,288.55 (89,803) (98,989.85)

J.R. Simplot - Moses Lake 2, Site Location: Moses Lake WA						Project Type: OWD	
AU-JRS-ML-2.4.2 4/12/2021	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2020	10,103	11,136.54	10,103	11,136.54	0	0.00
<b>Total Auth:</b>		<b>10,103</b>	<b>11,136.54</b>	<b>10,103</b>	<b>11,136.54</b>	<b>0</b>	<b>0.00</b>

**Project Total:** 10,103 11,136.54 10,103 11,136.54 0 0.00

Roseburg LFG Energy - Roseburg LFG, Site Location: Roseburg OR						Project Type: LFG	
AU-RE-RLG-1.1 6/22/2021	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2020	15,000	16,534.50	15,226	16,783.62	226	249.12
	2021	15,000	16,534.50	0	0.00	(15,000)	(16,534.50)
<b>Total Auth:</b>		<b>30,000</b>	<b>33,069.00</b>	<b>15,226</b>	<b>16,783.62</b>	<b>(14,774)</b>	<b>(16,285.38)</b>

**Project Total:** 30,000 33,069.00 15,226 16,783.62 (14,774) (16,285.38)

## Smart Energy Offset Vintage Obligations

## Totals By Project and Authorization

Begin Date: 1/1/2021

End Date: 1/1/2099

Shaan-Seet, Incorporated - Shaan Seet IFM, Site Location: Prince of Wales Island Project Type: IFM							
AU-SSC-SS-1.1 6/22/2021	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2019	40,000	44,092.00	40,000	44,092.00	0	0.00
	2020	40,000	44,092.00	0	0.00	(40,000)	(44,092.00)
	<b>Total Auth:</b>	<b>80,000</b>	<b>88,184.00</b>	<b>40,000</b>	<b>44,092.00</b>	<b>(40,000)</b>	<b>(44,092.00)</b>

**Project Total:** 80,000 88,184.00 40,000 44,092.00 (40,000) (44,092.00)

Port Blakely - Winston Creek IFM, Site Location: Morton WA Project Type: IFM							
AU-PB-WC-1.1 8/16/2021	Vintage	Authorized		Retired		Balance	
		Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
	2018	150,000	165,345.00	150,000	165,345.00	0	0.00
	<b>Total Auth:</b>	<b>150,000</b>	<b>165,345.00</b>	<b>150,000</b>	<b>165,345.00</b>	<b>0</b>	<b>0.00</b>

**Project Total:** 150,000 165,345.00 150,000 165,345.00 0 0.00

**Grand Total:** 504,177 555,754.31 359,600 396,387.08 (144,577) (159,367.23)

## Smart Energy Offset Projects

### Retirement Detail ( 1/1/2021 - 1/1/2099 )

<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>180,000</b></td> <td style="text-align: center;"><b>198,414.00</b></td> </tr> </table>		Estimated Total Project Volume		Metric Tonnes	Short Tons	<b>180,000</b>	<b>198,414.00</b>	Standard: Climate Action Reserve	Registry: Climate Action Reserve	Duration: 10 years	
Estimated Total Project Volume											
Metric Tonnes	Short Tons										
<b>180,000</b>	<b>198,414.00</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>131,914</b>	<b>145,408.80</b>	<b>131,914</b>	<b>145,408.80</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	7/15/2019	12/31/2019	Ruby Canyon Engineering	9/3/2020	1/22/2021	21,881	24,119.43	2/24/2021
Serial Number: CAR-1-US-593-5-207-ID-2019-6303-1 to 21881 Registry Listing URL:								
2020	1/1/2020	7/14/2020	Ruby Canyon Engineering	9/3/2020	1/22/2021	4,193	4,621.94	2/24/2021
Serial Number: CAR-1-US-593-5-207-ID-2020-6302-1 to 4193 Registry Listing URL:								
2020	7/15/2019	7/14/2020	Ruby Canyon Engineering	9/3/2020	1/22/2021	8,434	9,296.80	11/11/2021
Serial Number: CAR-1-US-593-5-207-ID-2020-6302-4194 to 12627 Registry Listing URL:								
2020	7/15/2019	7/14/2020	Ruby Canyon Engineering	9/3/2020	1/22/2021	3,705	4,084.02	11/11/2021
Serial Number: CAR-1-US-593-5-207-ID-2020-6302-24371 to 28075 Registry Listing URL:								
2020	7/15/2019	7/14/2020	Ruby Canyon Engineering	9/3/2020	1/22/2021	11,743	12,944.31	11/11/2021
Serial Number: CAR-1-US-593-5-207-ID-2020-6302-12628 to 24370 Registry Listing URL:								



**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>385,325</b>	<b>424,743.75</b>	<b>295,522</b>	<b>325,753.90</b>	<b>(89,803)</b>	<b>(98,989.85)</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2020	1/1/2020	12/31/2020	NSF Certification, LLC	1/1/2021	4/29/2021	118,197	130,288.55	6/16/2021
Serial Number: CAR-1-US-473-4-963-UT-2020-6567-1 to 118197								
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>142,037</b>	<b>156,567.39</b>	<b>97,037</b>	<b>106,963.89</b>	<b>(45,000)</b>	<b>(49,603.50)</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2020	1/1/2020	12/31/2020	First Environment, Inc.	10/30/2020	2/28/2021	10,103	11,136.54	4/27/2021
Serial Number: 9861-148653663-148663765-VCS-VCU-260-VER-US-13-448-01012020-31122020-0 Registry Listing URL:								
2020	1/1/2020	12/31/2020	First Environment, Inc.	10/30/2020	2/28/2021	15,000	16,534.50	4/27/2021
Serial Number: 9861-148638663-148653662-VCS-VCU-260-VER-US-13-448-01012020-31122020-0 Registry Listing URL:								

**Roseburg LFG Energy - Roseburg LFG**

**Site Location: Roseburg**

**Project Type: LFG**

Estimated Total Project Volume		Standard: Climate Action Reserve	Registry: Climate Action Reserve	Duration: 10 years
Metric Tonnes	Short Tons	Protocol: Landfill Project Protocol version 3.0	Crediting Period: Initial	Greenhouse Gas: Methane
<b>200,000</b>	<b>220,460.00</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>30,000</b>	<b>33,069.00</b>	<b>15,226</b>	<b>16,783.62</b>	<b>(14,774)</b>	<b>(16,285.38)</b>

Project Retirements								
Vintage	Reporting Start Date	Reporting End Date	Verifier	Verification Start Date	Verification End Date	Metric Tonnes	Short Tons	Retirement Effective Date
2020	1/1/2020	12/31/2020	SCS Global Services	2/19/2021	7/1/2021	15,226	16,783.62	7/28/2021
Serial Number: CAR-1-US-886-4-670-OR-2020-6605-1 to 15226								
Registry Listing URL:								

**Shaan-Seet, Incorporated - Shaan Seet IFM**

**Site Location: Prince of Wales Island**

**Project Type: IFM**

Estimated Total Project Volume		Standard: American Carbon Registry	Registry: American Carbon Registry	Duration: 20 years
Metric Tonnes	Short Tons	Protocol: ACR Standard Version 6	Crediting Period: Initial	Greenhouse Gas: CO2
<b>654,347</b>	<b>721,286.70</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>80,000</b>	<b>88,184.00</b>	<b>40,000</b>	<b>44,092.00</b>	<b>(40,000)</b>	<b>(44,092.00)</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	1/10/2019	1/9/2020	S&A Carbon	8/6/2020	3/15/2021	40,000	44,092.00	6/29/2021
Serial Number: ACR-US-534-2019-1233-1 to 40000								
Registry Listing URL: <a href="https://acr2.apx.com/mymodule/reg/TabDocuments.asp?r=111&amp;ad=Prpt&amp;act=update&amp;type=PRO&amp;aProj=pub&amp;tablename=doc&amp;id1=534">https://acr2.apx.com/mymodule/reg/TabDocuments.asp?r=111&amp;ad=Prpt&amp;act=update&amp;type=PRO&amp;aProj=pub&amp;tablename=doc&amp;id1=534</a>								

**Mass Energy Works - Van Warmerdam**

Site Location: Galt

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 4.0	Crediting Period: Initial	Greenhouse Gas: Methane
<b>60,227</b>	<b>66,388.22</b>			

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>30,740</b>	<b>33,884.70</b>	<b>30,740</b>	<b>33,884.70</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	5/1/2018	12/31/2018	First Environment, Inc.	5/14/2019	11/6/2019	3,183	3,508.62	11/11/2021
Serial Number: CAR-1-US-998-5-871-CA-2018-5885-2789 to 5971 Registry Listing URL:								
2019	5/1/2019	12/31/2019	First Environment, Inc.	8/10/2020	9/22/2020	3,947	4,350.78	11/11/2021
Serial Number: CAR-1-US-998-5-871-CA-2019-6335-805 to 4751 Registry Listing URL:								

**Port Blakely - Winston Creek IFM**

**Site Location: Morton**

**Project Type: IFM**

Estimated Total Project Volume		Standard: American Carbon Registry	Registry: American Carbon Registry	Duration: 20 years
Metric Tonnes	Short Tons			
<b>850,000</b>	<b>936,955.00</b>			
		Protocol: ACR Standard, Version 4.0; IFM methodology version 1.2	Crediting Period: Initial	Greenhouse Gas: CO2

Project Authorizations	Authorized		Retired		Balance	
	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons	Metric Tonnes	Short Tons
Buyer: Smart Energy	<b>150,000</b>	<b>165,345.00</b>	<b>150,000</b>	<b>165,345.00</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
2018	9/1/2017	8/31/2019	SCS Global Services	12/6/2019	9/17/2020	150,000	165,345.00	8/23/2021
Serial Number: ACR-US-389-2018-1104-25001 to 175000								
Registry Listing URL:								