



## e-FILING REPORT COVER SHEET

COMPANY NAME:

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Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications)  
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250 SW Taylor Street  
Portland, OR 97204

503-226-4211  
nwnatural.com

March 19, 2024

**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 2023 Smart Energy™ Reconciliation Report**

Northwest Natural Gas Company, dba NW Natural ("NW Natural" or "Company"), files herewith its 2023 Smart Energy™ Reconciliation Report for the program year January 1, 2023 through December 31, 2023. The Reconciliation Report has been provided in response to a request from the Portfolio Options Committee, which oversaw and advised the Company's offset program when it was active. The Company will continue to provide the Reconciliation Report in the interest of transparency and support of the Smart Energy™ 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,

**NW Natural**

*/s/ Amy Schulties*

Amy Schulties  
Regulatory Consultant  
(503) 610-7546

Enclosure

## Smart Energy Product Reporting

### Demand Reconciliation

For the period of January 1, 2023 – December 31, 2023

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

| Calendar Year | Smart Energy Funds Billed   | Therms to be offset | Obligation metric tons |
|---------------|-----------------------------|---------------------|------------------------|
| 2023          | \$5,301,231.70 <sup>1</sup> | 50,555,328.04       | 268,297.66             |

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

**Table 2:** Participating Customer Billings & Resulting Greenhouse Gas Offsets and Renewable Natural Gas (RTC<sup>2</sup>)

| Calendar Year | Smart Energy Funds Billed | Therms to be addressed | Obligation Offsets mt | Obligation RTCs |
|---------------|---------------------------|------------------------|-----------------------|-----------------|
| 2023          | \$95,208.06 <sup>3</sup>  | 624,478.96             | 3,181.55              | 2,497.91        |

Total emissions addressed: 271,611.78 metric tons CO<sub>2</sub>e

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

<sup>2</sup> Transacted with Renewable Thermal Certificates

<sup>3</sup> Collections, net of uncollectable allowance

## Smart Energy Product Reporting

### Supply Reconciliation

For the period of January 1, 2023 – December 31, 2023

**Table 3:** Carbon Offset Obligations & Retirements

| Calendar | Offset Activity | Metric Tons |
|----------|-----------------|-------------|
| Year     | Obligations     | 220,356     |
| 2023     | Retirements     | 113,573     |

**Table 4:** Renewable Natural Gas Obligations & Retirements

| Calendar | RNG Activity             | RTC <sup>1</sup> |
|----------|--------------------------|------------------|
| Year     | Obligations              | 2,497.91         |
| 2023     | Retirements <sup>2</sup> | 2,498            |

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<sup>1</sup> Renewable Thermal Certificate – each represents one dekatherm of Renewable Natural Gas

<sup>2</sup> Retired February 19, 2024

# Transaction Confirmation



**Date:** 02-19-2024

**M-RETS Organization:** NW Natural

## Retiring 1846 active RTCs

| Account      | ID            | Project                        | Fuel Type             | Vintage    | Location | Quantity | Serial Number                             |
|--------------|---------------|--------------------------------|-----------------------|------------|----------|----------|---|
| Smart Energy | 66D5CE9B-0AC9 | Wasatch Resource Recovery, LLC | Renewable Natural Gas | 2020-12-01 | UT       | 1846     | T3831-Utah-12-2020-1329<br>FEF6-1725-3570 |

### Transaction Notes:

On behalf of NW Natural Smart Energy Customers

### Retirement reason:

Voluntary - Beneficial Ownership

### Retirement reason details:

**Retired for:** N/A

**Period:** 2023

**Quarter:** Q4

### to this retirement account

Smart Energy Retirement

### Eligibilities

None

*M-RETS hereby declares this transaction confirmation shall serve as proof that the above transaction was completed on the date listed.*

# Transaction Confirmation



**Date:** 02-19-2024

**M-RETS Organization:** NW Natural

## Retiring 652 active RTCs

| Account      | ID            | Project                        | Fuel Type             | Vintage    | Location | Quantity | Serial Number                             |
|--------------|---------------|--------------------------------|-----------------------|------------|----------|----------|---|
| Smart Energy | 66D5CE9B-0AC9 | Wasatch Resource Recovery, LLC | Renewable Natural Gas | 2021-01-01 | UT       | 652      | T3831-Utah-01-2021-DD45<br>B8E3-3088-3739 |

### Transaction Notes:

On behalf of NW Natural Smart Energy Customers

### Retirement reason:

Voluntary - Beneficial Ownership

### Retirement reason details:

**Retired for:** N/A

**Period:** 2023

**Quarter:** Q4

### to this retirement account

Smart Energy Retirement

### Eligibilities

None

*M-RETS hereby declares this transaction confirmation shall serve as proof that the above transaction was completed on the date listed.*

## 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   | 403,920          | 445,241.02          | 416,147          | 458,718.84          | 12,227           | 13,477.82           |
| ØlimeCo LLC - Everett Composting  | 61,585           | 67,885.14           | 42,763           | 47,137.65           | (18,822)         | (20,747.49)         |
| Great Bear Carbon Credit Corporation - Great Bear Haida Gwaii               | 137,500          | 151,566.25          | 137,500          | 151,566.25          | 0                | 0.00                |
| Great Bear Carbon Credit Corporation - Great Bear North & Central-Mid Coast | 137,500          | 151,566.25          | 137,500          | 151,566.25          | 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   | 136,556          | 150,525.68          | 138,768          | 152,963.97          | 2,212            | 2,438.29            |
| Farm Power - Misty Meadow 2   | 45,000           | 49,603.50           | 0                | 0.00                | (45,000)         | (49,603.50)         |
| 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   | 155,037          | 170,897.29          | 125,037          | 137,828.29          | (30,000)         | (33,069.00)         |
| 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                |
| Farm Power - Rexville 2   | 16,427           | 18,107.47           | 16,427           | 18,107.48           | 0                | 0.01                |
| Roseburg LFG Energy - Roseburg LFG  | 27,405           | 30,208.53           | 27,405           | 30,208.53           | 0                | 0.00                |
| Roseburg LFG Energy - Roseburg LFG 2  | 60,418           | 66,598.76           | 9,204            | 10,145.57           | (51,214)         | (56,453.19)         |
| Shaan-Seet, Incorporated - Shaan Seet IFM                                   | 120,000          | 132,276.00          | 120,000          | 132,276.00          | 0                | 0.00                |
| Farm Power - Tillamook  | 95,487           | 105,255.32          | 95,487           | 105,255.32          | 0                | 0.00                |
| Farm Power - Tillamook 2  | 30,000           | 33,069.00           | 0                | 0.00                | (30,000)         | (33,069.00)         |
| 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>2,129,279</b> | <b>2,347,104.19</b> | <b>1,970,526</b> | <b>2,172,110.81</b> | <b>(158,753)</b> | <b>(174,993.38)</b> |

## Smart Energy Offset Projects

### Retirement Detail ( 1/1/2023 - 12/31/2023 )

|   |                   |  |                           |                            |            |               |                   |                                  |                                  |                    |  |
|---|-------------------|--|---------------------------|----------------------------|------------|---------------|-------------------|----------------------------------|----------------------------------|--------------------|--|
| <b>Farm Power - Misty Meadow</b>  |                   | <b>Site Location: Tillamook</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="text-align: center;">Metric Tonnes</td> <td style="text-align: center;">Short Tons</td> </tr> <tr> <td style="text-align: center;"><b>93,100</b></td> <td style="text-align: center;"><b>102,624.13</b></td> </tr> </table> |                   | Estimated Total Project Volume                         |                           | Metric Tonnes              | Short Tons | <b>93,100</b> | <b>102,624.13</b> | Standard: Climate Action Reserve | Registry: Climate Action Reserve | Duration: 10 years |  |
| Estimated Total Project Volume  |                   |  |                           |                            |            |               |                   |                                  |                                  |                    |  |
| Metric Tonnes   | Short Tons        |  |                           |                            |            |               |                   |                                  |                                  |                    |  |
| <b>93,100</b>   | <b>102,624.13</b> |  |                           |                            |            |               |                   |                                  |                                  |                    |  |
|   |                   | Protocol: U.S. Livestock Project Protocol, Version 3.0 | 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>136,556</b> | <b>150,525.68</b> | <b>138,768</b> | <b>152,963.97</b> | <b>2,212</b>  | <b>2,438.29</b> |

| Project Retirements  |                      |                    |                         |                         |                       |               |            |                           |
|--|----------------------|--------------------|-------------------------|-------------------------|-----------------------|---------------|------------|---------------------------|
| Vintage  | Reporting Start Date | Reporting End Date | Verifier                | Verification Start Date | Verification End Date | Metric Tonnes | Short Tons | Retirement Effective Date |
| 2021   | 1/1/2021             | 12/31/2021         | Ruby Canyon Engineering | 11/7/2022               | 12/22/2022            | 9,987         | 11,008.67  | 2/24/2023                 |
| Serial Number: CAR-1-US-996-5-212-OR-2021-7446-10001 to 19987<br>Registry Listing URL: |                      |                    |                         |                         |                       |               |            |                           |
| 2021   | 1/1/2021             | 12/31/2021         | Ruby Canyon Engineering | 11/7/2022               | 12/22/2022            | 10,000        | 11,023.00  | 2/24/2023                 |
| Serial Number: CAR-1-US-996-5-212-OR-2021-7446-1 to 10000<br>Registry Listing URL:     |                      |                    |                         |                         |                       |               |            |                           |
| 2022   | 1/1/2022             | 12/31/2022         | Ruby Canyon Engineering | 5/19/2023               | 10/13/2023            | 17,435        | 19,218.60  | 11/15/2023                |
| Serial Number: CAR-1-US-996-5-212-OR-2022-7869-1 to 17435<br>Registry Listing URL:     |                      |                    |                         |                         |                       |               |            |                           |



**Farm Power - Rexville 2**

**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 | Crediting Period: Second         | Greenhouse Gas: Methane |
| <b>100,000</b>                 | <b>110,230.00</b> |   |                                  |                         |

| Project Authorizations | Authorized    |                  | Retired       |                  | Balance       |             |
|------------------------|---------------|------------------|---------------|------------------|---------------|-------------|
|                        | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons  |
| Buyer: Smart Energy    | <b>16,427</b> | <b>18,107.47</b> | <b>16,427</b> | <b>18,107.48</b> | <b>0</b>      | <b>0.01</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  | 8/12/2020            | 8/11/2021          | Ruby Canyon Engineering | 4/14/2022               | 8/4/2022              | 2,209         | 2,434.98   | 2/24/2023                 |
| Serial Number: CAR-1-US-416-5-874-WA-2020-7165-1 to 2209<br>Registry Listing URL: |                      |                    |                         |                         |                       |               |            |                           |
| 2021  | 8/12/2020            | 8/11/2021          | Ruby Canyon Engineering | 4/14/2022               | 8/4/2022              | 5,123         | 5,647.08   | 2/24/2023                 |
| Serial Number: CAR-1-US-416-5-874-WA-2021-7166-1 to 5123<br>Registry Listing URL: |                      |                    |                         |                         |                       |               |            |                           |

| Roseburg LFG Energy - Roseburg LFG 2 |                   | 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 Protocol version 6.0 | Crediting Period: Second         | Greenhouse Gas: Methane |  |
| <b>150,000</b>                       | <b>165,345.00</b> |   |                                  |                         |  |

| Project Authorizations | Authorized    |                  | Retired       |                  | Balance         |                    |
|------------------------|---------------|------------------|---------------|------------------|-----------------|--------------------|
|                        | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons       | Metric Tonnes   | Short Tons         |
| Buyer: Smart Energy    | <b>60,418</b> | <b>66,598.76</b> | <b>9,204</b>  | <b>10,145.57</b> | <b>(51,214)</b> | <b>(56,453.19)</b> |

| Project Retirements   |                      |                    |                     |                         |                       |               |            |                           |
|---|----------------------|--------------------|---------------------|-------------------------|-----------------------|---------------|------------|---------------------------|
| Vintage   | Reporting Start Date | Reporting End Date | Verifier            | Verification Start Date | Verification End Date | Metric Tonnes | Short Tons | Retirement Effective Date |
| 2021  | 12/13/2021           | 12/31/2022         | SCS Global Services | 7/25/2023               | 10/17/2023            | 418           | 460.76     | 12/19/2023                |
| Serial Number: CAR-1-US-886-4-670-OR-2021-7903-1 to 418<br>Registry Listing URL:  |                      |                    |                     |                         |                       |               |            |                           |
| 2022  | 12/13/2021           | 12/31/2022         | SCS Global Services | 7/25/2023               | 10/17/2023            | 8,786         | 9,684.81   | 12/19/2023                |
| Serial Number: CAR-1-US-886-4-670-OR-2022-7902-1 to 8786<br>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>120,000</b> | <b>132,276.00</b> | <b>120,000</b> | <b>132,276.00</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 |
| 2021  | 1/10/2021            | 1/9/2022           | S&A Carbon | 9/28/2022               | 1/19/2023             | 40,000        | 44,092.00  | 2/24/2023                 |
| Serial Number: ACR-US-534-2021-1762-1 to 40000<br>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>95,487</b> | <b>105,255.32</b> | <b>95,487</b> | <b>105,255.32</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 |
| 2021   | 1/1/2021             | 12/31/2021         | Ruby Canyon Engineering | 11/7/2022               | 12/22/2022            | 8,800         | 9,700.24   | 2/24/2023                 |
| Serial Number: CAR-1-US-988-5-212-OR-2021-7447-1 to 8800<br>Registry Listing URL:  |                      |                    |                         |                         |                       |               |            |                           |
| 2022   | 1/1/2022             | 12/31/2022         | Ruby Canyon Engineering | 5/19/2023               | 8/15/2023             | 10,815        | 11,921.37  | 10/27/2023                |
| Serial Number: CAR-1-US-988-5-212-OR-2022-7845-1 to 10815<br>Registry Listing URL: |                      |                    |                         |                         |                       |               |            |                           |

## Smart Energy Offset Vintage Obligations

### Totals By Project and Authorization

Begin Date:#Name?

End Date:#Name?

| ClimeCo LLC - Everett Composting, Site Location: Everett WA |               |                  |               |             |                 | Project Type: OWC  |  |
|---|---------------|------------------|---------------|-------------|-----------------|--------------------|--|
| AU-CG-EC-1.2  | Authorized    |                  | Retired       |             | Balance         |                    |  |
| 7/28/2023   | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons  | Metric Tonnes   | Short Tons         |  |
| Vintage   |               |                  |               |             |                 |                    |  |
| 2022  | 19,500        | 21,494.85        | 0             | 0.00        | (19,500)        | (21,494.85)        |  |
| <b>Total Auth:</b>  | <b>19,500</b> | <b>21,494.85</b> | <b>0</b>      | <b>0.00</b> | <b>(19,500)</b> | <b>(21,494.85)</b> |  |

**Project Total:** **19,500** **21,494.85** **0** **0.00** **(19,500)** **(21,494.85)**

| Farm Power - Misty Meadow, Site Location: Tillamook OR |               |                  |               |                  |               | Project Type: Dairy |  |
|--|---------------|------------------|---------------|------------------|---------------|---------------------|--|
| AU-FP-MM-1.2.5   | Authorized    |                  | Retired       |                  | Balance       |                     |  |
| 2/21/2023  | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons          |  |
| Vintage  |               |                  |               |                  |               |                     |  |
| 2021   | 9,987         | 11,008.67        | 9,987         | 11,008.67        | 0             | 0.00                |  |
| <b>Total Auth:</b>                                     | <b>9,987</b>  | <b>11,008.67</b> | <b>9,987</b>  | <b>11,008.67</b> | <b>0</b>      | <b>0.00</b>         |  |
| AU-FP-MM-1.2.6   | Authorized    |                  | Retired       |                  | Balance       |                     |  |
| 11/1/2023  | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons          |  |
| Vintage  |               |                  |               |                  |               |                     |  |
| 2022   | 7,435         | 8,195.60         | 7,435         | 8,195.60         | 0             | 0.00                |  |
| <b>Total Auth:</b>                                     | <b>7,435</b>  | <b>8,195.60</b>  | <b>7,435</b>  | <b>8,195.60</b>  | <b>0</b>      | <b>0.00</b>         |  |

**Project Total:** **17,422** **19,204.27** **17,422** **19,204.27** **0** **0.00**

| Farm Power - Misty Meadow 2, Site Location: Tillamook OR |               |                  |               |             |                 | Project Type: Dairy |  |
|--|---------------|------------------|---------------|-------------|-----------------|---------------------|--|
| AU-FP-MM-2.3   | Authorized    |                  | Retired       |             | Balance         |                     |  |
| 7/28/2023  | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons  | Metric Tonnes   | Short Tons          |  |
| Vintage  |               |                  |               |             |                 |                     |  |
| 2023   | 15,000        | 16,534.50        | 0             | 0.00        | (15,000)        | (16,534.50)         |  |
| 2024   | 15,000        | 16,534.50        | 0             | 0.00        | (15,000)        | (16,534.50)         |  |
| 2025   | 15,000        | 16,534.50        | 0             | 0.00        | (15,000)        | (16,534.50)         |  |
| <b>Total Auth:</b>                                       | <b>45,000</b> | <b>49,603.50</b> | <b>0</b>      | <b>0.00</b> | <b>(45,000)</b> | <b>(49,603.50)</b>  |  |

**Project Total:** **45,000** **49,603.50** **0** **0.00** **(45,000)** **(49,603.50)**

## Smart Energy Offset Vintage Obligations

### Totals By Project and Authorization

Begin Date:#Name?

End Date:#Name?

| Farm Power - Rexville 2, Site Location: Mt. Vernon WA |                    |               |                 |               | Project Type: Dairy |               |             |
|---|--------------------|---------------|-----------------|---------------|---------------------|---------------|-------------|
| AU-FP-RX-2.2<br>2/21/2023                             | Vintage            | Authorized    |                 | Retired       |                     | Balance       |             |
|   |                    | Metric Tonnes | Short Tons      | Metric Tonnes | Short Tons          | Metric Tonnes | Short Tons  |
|   | 2020               | 2,209         | 2,434.98        | 2,209         | 2,434.98            | 0             | 0.00        |
|   | 2021               | 5,123         | 5,647.08        | 5,123         | 5,647.08            | 0             | 0.00        |
|   | <b>Total Auth:</b> | <b>7,332</b>  | <b>8,082.06</b> | <b>7,332</b>  | <b>8,082.06</b>     | <b>0</b>      | <b>0.00</b> |

**Project Total:**                                      **7,332**                      **8,082.06**                      **7,332**                      **8,082.06**                      **0**                      **0.00**

| Roseburg LFG Energy - Roseburg LFG 2, Site Location: Roseburg OR |                    |               |                  |               | Project Type: LFG |                 |                    |
|--|--------------------|---------------|------------------|---------------|-------------------|-----------------|--------------------|
| AU-RE-RLG-2.2<br>7/28/2023                                       | Vintage            | Authorized    |                  | Retired       |                   | Balance         |                    |
|  |                    | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons        | Metric Tonnes   | Short Tons         |
|  | 2022               | 12,000        | 13,227.60        | 8,786         | 9,684.81          | (3,214)         | (3,542.79)         |
|  | 2023               | 12,000        | 13,227.60        | 0             | 0.00              | (12,000)        | (13,227.60)        |
|  | 2024               | 12,000        | 13,227.60        | 0             | 0.00              | (12,000)        | (13,227.60)        |
|  | 2025               | 12,000        | 13,227.60        | 0             | 0.00              | (12,000)        | (13,227.60)        |
|  | 2026               | 12,000        | 13,227.60        | 0             | 0.00              | (12,000)        | (13,227.60)        |
|  | <b>Total Auth:</b> | <b>60,000</b> | <b>66,138.00</b> | <b>8,786</b>  | <b>9,684.81</b>   | <b>(51,214)</b> | <b>(56,453.19)</b> |
| AU-RE-RLG-2.3<br>12/13/2023                                      | Vintage            | Authorized    |                  | Retired       |                   | Balance         |                    |
|  |                    | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons        | Metric Tonnes   | Short Tons         |
|  | 2021               | 418           | 460.76           | 418           | 460.76            | 0               | 0.00               |
|  | <b>Total Auth:</b> | <b>418</b>    | <b>460.76</b>    | <b>418</b>    | <b>460.76</b>     | <b>0</b>        | <b>0.00</b>        |

**Project Total:**                                      **60,418**                      **66,598.76**                      **9,204**                      **10,145.57**                      **(51,214)**                      **(56,453.19)**

## Smart Energy Offset Vintage Obligations

### Totals By Project and Authorization

Begin Date:#Name?

End Date:#Name?

| Shaan-Seet, Incorporated - Shaan Seet IFM, Site Location: Prince of Wales Island <span style="float: right;">Project Type: IFM</span> |               |                  |               |                  |               |             |  |
|---|---------------|------------------|---------------|------------------|---------------|-------------|--|
| AU-SSC-SS-1.2   | Authorized    |                  | Retired       |                  | Balance       |             |  |
| 2/21/2023   | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons  |  |
| Vintage   |               |                  |               |                  |               |             |  |
| 2021  | 40,000        | 44,092.00        | 40,000        | 44,092.00        | 0             | 0.00        |  |
| <b>Total Auth:</b>  | <b>40,000</b> | <b>44,092.00</b> | <b>40,000</b> | <b>44,092.00</b> | <b>0</b>      | <b>0.00</b> |  |

**Project Total:** **40,000** **44,092.00** **40,000** **44,092.00** **0** **0.00**

| Farm Power - Tillamook, Site Location: Tillamook OR <span style="float: right;">Project Type: Dairy</span> |               |               |               |               |               |             |  |
|--|---------------|---------------|---------------|---------------|---------------|-------------|--|
| AU-FP-TK-1.2.4   | Authorized    |               | Retired       |               | Balance       |             |  |
| 10/3/2023  | Metric Tonnes | Short Tons    | Metric Tonnes | Short Tons    | Metric Tonnes | Short Tons  |  |
| Vintage  |               |               |               |               |               |             |  |
| 2022   | 684           | 753.97        | 684           | 753.97        | 0             | 0.00        |  |
| <b>Total Auth:</b>   | <b>684</b>    | <b>753.97</b> | <b>684</b>    | <b>753.97</b> | <b>0</b>      | <b>0.00</b> |  |

**Project Total:** **684** **753.97** **684** **753.97** **0** **0.00**

| Farm Power - Tillamook 2, Site Location: Tillamook OR <span style="float: right;">Project Type: Dairy</span> |               |                  |               |             |                 |                    |  |
|--|---------------|------------------|---------------|-------------|-----------------|--------------------|--|
| AU-FP-TK-2.3   | Authorized    |                  | Retired       |             | Balance         |                    |  |
| 7/28/2023  | Metric Tonnes | Short Tons       | Metric Tonnes | Short Tons  | Metric Tonnes   | Short Tons         |  |
| Vintage  |               |                  |               |             |                 |                    |  |
| 2023   | 10,000        | 11,023.00        | 0             | 0.00        | (10,000)        | (11,023.00)        |  |
| 2024   | 10,000        | 11,023.00        | 0             | 0.00        | (10,000)        | (11,023.00)        |  |
| 2025   | 10,000        | 11,023.00        | 0             | 0.00        | (10,000)        | (11,023.00)        |  |
| <b>Total Auth:</b>   | <b>30,000</b> | <b>33,069.00</b> | <b>0</b>      | <b>0.00</b> | <b>(30,000)</b> | <b>(33,069.00)</b> |  |

**Project Total:** **30,000** **33,069.00** **0** **0.00** **(30,000)** **(33,069.00)**

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**Grand Total:** **220,356** **242,898.41** **74,642** **82,277.88** **(145,714)** **(160,620.53)**