



Descriptions for Project Performance Web Page

6/30/2017

Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
<p>Alex Little Soldier Wind Turbine</p>	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of wind, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: WAPA Upper Great Plains East • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year. In year 6 of the purchase term (beginning March, 2009) we averaged that improving rate with a rate of 1,000 lbs/MWh to account for the potential displacement of new cleaner-burning generating capacity, as then predicted by the Energy Information Administration’s Annual Energy Outlook.* 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: WAPA Upper Great Plains East • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate.



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Brubaker Family Farm Project	<p>Projected tonnes shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: EGRID2004, average fossil fuel CO₂ emission rate, 2004 data, reduced by 0.8% of the base rate each year. In year 10 of the purchase term (beginning 2017) we averaged that improving rate with a rate of 1,000 lbs/MWh to account for the potential displacement of new cleaner-burning generating capacity, as then predicted by the Energy Information Administration’s Annual Energy Outlook.* <p>We have adjusted each partial year’s projected annual avoided lagoon emissions to account for seasonal variability of ambient weather consistent with the basis upon which these carbon offsets were sold. We have assumed avoided fossil fuel emissions consistent with the basis upon which these carbon offsets were sold.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. Actual tonnes estimated during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>Avoided lagoon emissions are based on actual manure management conditions for the performance period with a partial-year monthly adjustment to account for seasonal variability of ambient weather. Avoided fossil fuel emissions are based on projections during the first year, after which time sufficient fuel records and weather data are available to calculate actual emissions reductions.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
CSS Trucking Efficiency Project	<p>To calculate the projected performance for this period consistently with the basis upon which the carbon offsets were sold, we have developed several sets of calculations to conservatively estimate the total projected diesel fuel oil savings for each technology. These fuel savings are based on documented efficiency performance of each technology and the usage for the performance period (in miles driven in the case of fleet vehicles, or hours used in the case of APUs). The resultant fuel oil savings are then multiplied by the CO₂ emissions factor for diesel fuel.</p>	<p>Actual tonnes quantified during the performance period through 2010 for fleet vehicles are based on the actual reported miles driven and gallons used from GPS recording and purchase receipts for tax purposes. Project emissions are then determined based on the total fuel consumed multiplied by the CO₂ emissions factor for diesel fuel. For individual owner/operator APU units, the actual operating hours are obtained from surveys sent to all owner/operators. Operating hours are multiplied by the standard fuel consumption rate, and then by the CO₂ emission factor for diesel fuel to obtain total tonnes. Since 2010, the average annual rates for performance through 2010 were used as these sources became unavailable. To be conservative, we assumed that only 75% of the prior average emissions level was achieved.</p>
Dovan Family Farm Project	<p>Projected tonnes shown are the total of the project’s tonnes from electric production and avoided lagoon emissions. We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made.</p> <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* <p>We have adjusted each partial year’s projected annual avoided lagoon emissions to account for seasonal variability of ambient weather consistent with the basis upon which these carbon offsets were sold.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes from electric production and avoided lagoon emissions. Actual tonnes estimated during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>Avoided lagoon emissions are based on actual manure management conditions for the performance period with a partial-year monthly adjustment to account for seasonal variability of ambient weather.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Essex Junction Municipal Biogas Generator	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> Power control region: New England Power Pool CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> Power control region: New England Power Pool CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>On mutual agreement between NativeEnergy and the project owner we released the town from its contract in 2014 and replaced the remaining credits with similar methane destruction credits in an amount when combined with the project’s prior performance, totals to 110% of the initial projected tonnes sold.</p>
Ethiopia Water Filter Project	<p>In 2015 and 2016, 1500 Hydrad biosand filters were installed in homes in Sidama Zone, Ethiopia, reducing the households’ burning of unsustainably harvested wood to boil and purify water. The first round of annual monitoring to collect data for carbon credit verification will be in Q4 2017 for tonnes accrued 2015-2017. Projected tonnes are based on ex-ante baseline determined through testing within project boundary prior to project implementation. The reductions are estimated in the Project Design Document based on the Gold Standard’s “Technologies and Practices to Displace Decentralized Thermal Consumption”.</p> <ul style="list-style-type: none"> Annual monitoring parameters that affect annual production are filtered water consumed per person, filter usage rate, air quality, and quality of water. Fixed parameters include CO₂ emission factor for fuel wood 112 tCO₂/Tj, CH₄ emission factor for fuel wood 0.3 tCO₂/Tj, N₂O CO₂ emission factor for fuel wood 0.004 tCO₂/Tj, Non-renewable biomass fraction 0.88, Percentage of users of filter who were already consuming safe water without boiling it 4.20%. 	<p>Actual tonnes estimated during the performance period are based on 137 randomly selected households, water consumption field tests, and water quality tests. We have not yet initiated the first verification.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Farmer-Owned Distributed Wind	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of wind, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: WAPA Upper Great Plains East (or applicable control region if different) • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year. In year 8 of the purchase term we averaged that improving rate with a rate of 1,000 lbs/MWh to account for the potential displacement of new cleaner-burning generating capacity, as then predicted by the Energy Information Administration’s Annual Energy Outlook.* 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owners multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Balancing Authority: WAPA Upper Great Plains East (or applicable BA if different) • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate.
Ghana Clean Water Project	<p>Projected tonnes are based on ex-ante baseline determined through testing within project boundary prior to project implementation. The reductions are estimated in the Project Design Document based on the Gold Standard’s “Technologies and Practices to Displace Decentralized Thermal Consumption”.</p> <ul style="list-style-type: none"> • Annual monitoring parameters that affect annual production are filtered water consumed per person, filter usage rate, air quality, and quality of water. • Fixed parameters include CO₂ emission factor for fuel wood 112 tCO₂/Tj, CH₄ emission factor for fuel wood 0.3 tCO₂/Tj, N₂O CO₂ emission factor for fuel wood 0.004 tCO₂/Tj, Non-renewable biomass fraction 0.99, Percentage of users of filter who were already consuming safe water without boiling it 31.97%, quantity of fuel wood consumed in baseline 6.68 tonnes. 	<p>Actual tonnes estimated during the performance period are based on 137 randomly selected households, water consumption field tests, and water quality tests.</p> <p>The monitoring period for the Ghana Clean Water project is from July 7 – July 6 of every year.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Green Dream Farm	Projected tonnes shown are the total greenhouse gas emissions reductions due to the avoided landfill methane emissions and avoided natural gas combustion. The reductions are estimated in the Project Description document in accordance with the Verified Carbon Standard, Version 3.	Actual tonnes quantified during the performance period shown is the total of the project’s emissions reductions based on the project’s records and documentation as verified by an accredited third party verifier in accordance with VCS.
Greensburg Wind Farm	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of wind, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was calculated consistent with the Voluntary Carbon Standards guidelines and provided in the project’s Project Design Document, validated by an accredited third-party validator.</p>	Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner and confirmed through copies of invoices to—and payments by—the purchasing utility, net of the documented RECs delivered to the City of Greensburg. The net MWh are multiplied by the validated emission factor. Periodic third party verification will be completed in accordance with VCS.



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Hillcrest Saylor Farm Project	<p>Projected tonnes shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made.</p> <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* <p>We have adjusted each partial year’s projected annual avoided lagoon emissions to account for seasonal variability of ambient weather consistent with the basis upon which these carbon offsets were sold. We have assumed avoided fossil fuel emissions consistent with the basis upon which these carbon offsets were sold.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. Actual tonnes estimated during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>Avoided lagoon emissions are based on actual manure management conditions for the performance period with a partial-year monthly adjustment to account for seasonal variability of ambient weather. Avoided fossil fuel emissions are based on projections during the first year, after which time sufficient fuel records and weather data are available to calculate actual emissions reductions.</p>
Honduras Water Filters—Pure Water for the World	<p>Projected tonnes are based on ex-ante baseline determined through testing within project boundary prior to project implementation. The reductions are estimated in the Project Design Document based on the Gold Standard’s “Technologies and Practices to Displace Decentralized Thermal Consumption”.</p> <ul style="list-style-type: none"> • Annual monitoring parameters that impact annual production are filtered water consumed per person, filter usage rate, air quality, and quality of water. • Fixed parameters include CO₂ emission factor for fuel wood 112 tCO₂/Tj, CH₄ emission factor for fuel wood 0.3 tCO₂/Tj, N₂O CO₂ emission factor for fuel wood 0.004 tCO₂/Tj, Non-renewable biomass fraction 0.99, Percentage of users of filter who were already consuming safe water without boiling it 5.83%, quantity of fuel wood consumed in baseline 3.92 tonnes. 	<p>Actual tonnes estimated during the performance period are based on 137 randomly selected households, water consumption field tests, and water quality tests.</p> <p>The monitoring period for the Honduras Clean Water Project is from March 30-March 29 of every year.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Indiana Community Wind Project	Projected tonnes shown are the total greenhouse gas emissions reductions due to reduced fossil fueled power plant emissions in the project’s electricity region. The reductions are estimated in the Project Description document in accordance with the Verified Carbon Standard, Version 3.	Actual tonnes quantified during the performance period shown is the total of the project’s emissions reductions based on the project’s metering and the emission reduction factor calculated in the VCS Project Description Document. Periodic third party verifications are completed in accordance with VCS.
Indiana School Wind Project: Phase II	Projected tonnes shown are the total greenhouse gas emissions reductions due to reduced fossil fueled power plant emissions in the project’s electricity region. The reductions are estimated in the Project Description document in accordance with the Verified Carbon Standard, Version 3 (pending completion).	Actual tonnes quantified during the performance period shown is the total of the project’s emissions reductions based on the project’s metering and the emission reduction factor calculated in the VCS Project Description Document. Periodic third party verifications are completed in accordance with VCS.
Iowa Farms Wind Project	Projected tonnes shown are the total greenhouse gas emissions reductions due to reduced fossil fueled power plant emissions in the project’s electricity region. The reductions are estimated in the Project Description document in accordance with the Verified Carbon Standard, Version 3.	Actual tonnes quantified during the performance period shown is the total of the project’s emissions reductions based on the project’s metering and the emission reduction factor calculated in accordance with VCS. Periodic third party verifications are completed in accordance with VCS.
Kasigluk Alaska Native Village Wind	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of wind, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Estimated diesel fuel CO₂ emission rate. 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Actual diesel fuel CO₂ emission rate.



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Kenya Clean Water Project	<p>Projected tonnes are based on ex-ante baseline determined through testing within project boundary prior to project implementation. The reductions are estimated in the Project Design Document based on the Gold Standard’s “Technologies and Practices to Displace Decentralized Thermal Consumption”.</p> <ul style="list-style-type: none"> • Annual monitoring parameters that impact annual production are filtered water consumed per person, filter usage rate, air quality, and quality of water. • Fixed parameters include CO₂ emission factor for fuel wood 112 tCO₂/Tj, CH₄ emission factor for fuel wood 0.3 tCO₂/Tj, N₂O CO₂ emission factor for fuel wood 0.004 tCO₂/Tj, Non-renewable biomass fraction 0.92, Percentage of users of filter who were already consuming safe water without boiling it 0%, net calorific value of fuel that is substituted or reduce 0.015 TJ/Ton. 	<p>Actual tonnes quantified during the performance period are based on 137 randomly selected households, water consumption field tests, and water quality tests. The third round of annual monitoring, and second verification, is scheduled to take place in late 2017.</p> <p>The monitoring period for the Kenya Clean Water Project is from February 18 – February 17 of every year.</p>
Lake Region State College	<p>Projected tonnes shown are the total greenhouse gas emissions reductions due to reduced fossil fueled power plant emissions in the projects electricity region. The reductions are estimated in the Project Description document in accordance with the Verified Carbon Standard, Version 3.</p>	<p>Actual tonnes quantified during the performance period shown is the total of the project’s emissions reductions based on the project’s metering and the emission reduction factor calculated in accordance with VCS. Periodic third party verifications are completed in accordance with VCS.</p>
Laurelbrook Farm Compost Project	<p>Projected tonnes shown are the total greenhouse gas emissions reductions due to the avoided lagoon methane emissions. The reductions are estimated in the Project Description document in accordance with the Verified Carbon Standard, Version 3.</p>	<p>Actual tonnes quantified during the performance period shown is the total of the project’s emissions reductions based on the project’s records and documentation. Periodic third party verifications are completed in accordance with VCS.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Mains Family Farm Project	<p>Projected Tonnes shown are the total of the project’s tonnes from electric production and avoided lagoon emissions. We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made.</p> <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: Energy Information Administration’s Annual Energy Outlook estimate of CO₂ emissions from fossil power plants.* <p>We have adjusted each partial year’s projected annual avoided lagoon emissions to account for seasonal variability of ambient weather consistent with the basis upon which these carbon offsets were sold.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes from electric production and avoided lagoon emissions. Actual tonnes estimated during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>Avoided lagoon emissions are based on actual manure management conditions for the performance period with a partial-year monthly adjustment to account for seasonal variability of ambient weather.</p>
Mandan, Hidatsa & Arikara Nation Wind	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of wind, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: WAPA Upper Great Plains East • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year. In year 6 of the purchase term we averaged that improving rate with a rate of 1,000 lbs/MWh to account for the potential displacement of new cleaner-burning generating capacity, as then predicted by the Energy Information Administration’s Annual Energy Outlook.* 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: WAPA Upper Great Plains East • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate.



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Noblehurst Farms	Projected tonnes shown are the total of the project's tonnes from avoided lagoon emissions. This is estimated based on the project's assessment of the Climate Action Reserve Livestock Protocol V2.1.	Actual tonnes quantified during the performance period shown are the total of the project's tonnes as provided in the Verifier's Report in accordance with the most recent version of the Climate Action Reserve Livestock Project Reporting Protocol available at time of verification.
Northeast Farm Separation Project	Projected tonnes shown are the total of the project's tonnes from avoided lagoon emissions. This is estimated based on the project's assessment of the Verified Carbon Standard version 3.0.	Actual tonnes quantified during the performance period shown are the total of the project's tonnes as provided in the third party Verifier's Report in accordance with the most recent version of the UNFCCC CDM methodology AMS-III.Y.
Oka Trees of Hope	Projected tonnes are based on ex-ante predictions for carbon sequestration in planted tree species. This is estimated based on the Gold Standard's Afforestation/Reforestation Requirement protocol. The first verification is expected Q4 2017.	The project has issued validated CO ₂ -certificates from the Gold Standard based on ex-ante validated predictions. This project is scheduled to have verifications performed every 5 years, the first to be conducted in 2020. Due to default of the supplier less acreage was planted than originally anticipated and we have purchased and retired substitute VERS in accordance with our terms and conditions to replace 15,451 credits.
PA Cluster	Projected tonnes shown are the total of the project's tonnes from avoided lagoon emissions. This is estimated based on the project's assessment of the Verified Carbon Standard version 3.0.	Actual tonnes quantified during the performance period shown are the total of the project's tonnes as provided in the Verifier's Report in accordance with the most recent version of the UNFCCC CDM methodology AMS-III.Y. Project underperformance led to the discontinuation of monitoring activities, and although the project continues to reduce emissions, all contracted tonnes to be produced subsequent to the cessation of monitoring were replaced with similar methane destruction credits.



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Penn England Farm Project	<p>Projected tonnes shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* <p>We have adjusted each partial year’s projected annual avoided lagoon emissions to account for seasonal variability of ambient weather consistent with the basis upon which these carbon offsets were sold. We have assumed avoided fossil fuel emissions consistent with the basis upon which these carbon offsets were sold.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. Actual tonnes estimated during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>Avoided lagoon emissions are based on actual manure management conditions for the performance period with a partial-year monthly adjustment to account for seasonal variability of ambient weather. Avoided fossil fuel emissions are based on projections during the first year, after which time sufficient fuel records and weather data are available to calculate actual emissions reductions.</p>
Rainier Farm Biogas Project	<p>Projected tonnes shown are the total of the project’s tonnes from avoided lagoon emissions. This is estimated based on the project’s assessment of the Climate Action Reserve Livestock Protocol V3.0.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes as provided in the third party Verifier’s Report in accordance with the most recent version of the Climate Action Reserve Livestock Project Reporting Protocol available at time of verification.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Salish Kootenai/Boulder Creek Hydro Project	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of hydroelectricity, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: Bonneville Power Control Area • CO₂ Emission Rate: EGRID2004, average fossil fuel CO₂ emission rate, 2004 data, reduced by 0.8% of the base rate each year. In year 13 of the purchase term (beginning 2019) we averaged that improving rate with a rate of 1,000 lbs/MWh to account for the potential displacement of new cleaner-burning generating capacity, as then predicted by the Energy Information Administration’s Annual Energy Outlook.* 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: Bonneville Power Control Area • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate.



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Schrack Family Farm Project	<p>Projected tonnes shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made.</p> <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* <p>We have adjusted each partial year’s projected annual avoided lagoon emissions to account for seasonal variability of ambient weather consistent with the basis upon which these carbon offsets were sold. We have assumed avoided fossil fuel emissions consistent with the basis upon which these carbon offsets were sold.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. Actual tonnes estimated during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>Avoided lagoon emissions are based on actual manure management conditions for the performance period with a partial-year monthly adjustment to account for seasonal variability of ambient weather. Avoided fossil fuel emissions are based on projections during the first year, after which time sufficient fuel records and weather data are available to calculate actual emissions reductions.</p>
Stonyfield Farm Solar Array	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of solar, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: New England Power Pool • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: New England Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate.



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Toksook Bay Alaska Native Wind	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of wind, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Estimated diesel fuel CO₂ emission rate. 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner multiplied by the applicable fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Actual diesel fuel CO₂ emission rate.
Trellis Structures Biomass Conversion Project	<p>To calculate the projected performance for this period consistently with the basis upon which the carbon offsets were sold, we have multiplied the total projected fuel oil savings for the performance period by the fuel oil CO₂ emission rate.</p>	<p>Actual tonnes quantified during the performance period are based on the actual deliveries of biomass to the project as provided by the project via copies of paid invoices. Total tonnes are adjusted based on the assumed thermal efficiencies of the baseline oil-fired boiler and the project biomass boiler provided by the project, and the assumed heating content of the fuel.</p>
Wanner Family Farm Project	<p>Projected tonnes shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made.</p> <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* <p>We have adjusted each partial year’s projected annual avoided lagoon emissions to account for seasonal variability of ambient weather consistent with the basis upon which these carbon offsets were sold. We have assumed avoided fossil fuel emissions consistent with the basis upon which these carbon offsets were sold.</p>	<p>Actual tonnes quantified during the performance period shown are the total of the project’s tonnes from electric production, avoided lagoon emissions, and avoided fossil fuel emissions. Avoided fossil fuel emissions tonnes are based on monthly metered MWh readings provided by the project owner multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: PJM Power Pool • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate. <p>Avoided lagoon emissions are based on actual manure management conditions for the performance period with a partial-year monthly adjustment to account for seasonal variability of ambient weather. Avoided fossil fuel emissions are based on projections during the first year, after which time sufficient fuel records and weather data are available to calculate actual emissions reductions.</p>



Project	Projected Metric Tonnes for Performance Period†	Actual Metric Tonnes for Performance Period†
Wewoka Biogas Project	Projected tonnes shown are the total greenhouse gas emissions reductions due to the avoided landfill methane emissions and avoided natural gas combustion. The reductions are estimated in the Project Description document in accordance with the Verified Carbon Standard, Version 3.	Actual tonnes quantified during the performance period shown is the total of the project’s emissions reductions based on the project’s records and documentation as verified by an accredited third party verifier in accordance with VCS.
Wray School District Wind Turbine	<p>We calculated the projected performance for this period using the same methodology we relied on at the time carbon offsets were sold. To determine performance during the performance period, we</p> <ul style="list-style-type: none"> • adjust each partial year’s projected annual electricity production to account for seasonal variability of wind, and • multiply the resulting total projected electricity production for the period by the emission rates that we had assumed for the period at the time sales were made. <p>For this project, the emission rate was based on:</p> <ul style="list-style-type: none"> • Power control region: WAPA Colorado-Missouri • CO₂ Emission Rate: EGRID2002, average fossil fuel CO₂ emission rate, 2000 data, reduced by 0.8% of the base rate each year.* 	<p>Actual tonnes quantified during the performance period are based on the monthly metered MWh readings provided by the project owner and confirmed through copies of invoices to –and payments by– the purchasing utility, multiplied by the applicable power control region average fossil fuel CO₂ emission rate for that year. For this project, the emission rate is based on:</p> <ul style="list-style-type: none"> • Power control region: WAPA Colorado-Missouri • CO₂ Emission Rate: The latest available EGRID data for average fossil fuel CO₂ emission rate.

†The Performance Period is from the start of the contract between the project owner and NativeEnergy, through the last available month of data submitted by project owner or third party verifier.

*This describes our projection methodology as was certified by the Climate Neutral Network. The projected performance used in this comparison comprises a weighted projection using the CNN-certified methodology and its predecessor, in proportion to sales made under each.