sustainable**chøice**

REC REPORT MARCH 2023 - JUNE 2024

SUSTAINABLE CHOICE MEMBERSHIP

RENEWABLE ENERGY CERTIFICATE PORTFOLIO

Prepared by

SOLSYSTEMS

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LETTER OF THANKS

I hope this message finds you well and full of optimism for the future. I want to extend my heartfelt gratitude to you for being an integral part of our community. Your commitment to renewable energy has made an incredible impact, and it's time to celebrate the strides we've made together!

Thanks to you and the collective efforts of our Sustainable Choice family, we've verified the addition of over 3 million kilowatt hours of renewable energy to the U.S. energy supply. This collective action not only reinforces the demand for cleaner energy sources, but also helps push polluting energy sources off the grid -- paving the way for a more sustainable future for everyone.

Your choices directly contributed to the avoidance of over 400 million pounds of carbon emissions. This means cleaner air, healthier communities, stronger economies, and a brighter future for generations to come. By prioritizing clean energy, you've helped reduce the carbon emissions of our shared grid and inspired positive change across the nation.



JOSEPH TANNERY VP, Solar Retail

We're committed to making renewable energy accessible and impactful, and your partnership is the key to our success.

Thank you for choosing to be part of The Sustainable Choice. Your dedication and enthusiasm drive us forward, and we're excited to continue this journey with you. Let's keep the momentum going and inspire others to join our mission of creating an abundant future for all.

With deepest gratitude,

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Q2 2023 - Q2 2024 ENERGY RESULTS

The Renewable Energy Certificates (RECs) procured and retired on your behalf verify the delivery of clean energy into the U.S. energy supply. From March 2023 through June 2024, the following results were acheived:

CLEAN ENERGY DELIVERED TO THE U.S. ENERGY SUPPLY 302,703,000 kilowatt-hours

equivalent to:

333,740 homes powered for a month¹

165 million smartphones charged each day for a year²

BY SOURCE



Q2 2023 - Q2 2024 EMISSIONS RESULTS

Renewable energy delivery to the grid replaces polluting sources of electricity that would have otherwise been needed in the electric supply. Collectively, the Sustainable Choice community fostered the following environmental benefits during the reporting period:

AVOIDED CARBON EMISSIONS³

66,201,261 pounds of CO2

equivalent to the emissions from consuming:





equivalent to the avoided emssions by:

S Recycling 73,000 tons of waste

equivalent to the carbon sequestered by:



246,000 acres of U.S. Forest





Snipesville III Solar PV Park Denton, Georgia

USA

Renewable Energy Certificate Serial Numbers: NAR-REC-4882-GA-07-2023-145761-23565 to 23647

83 RECs 83,000 kWh

351 Renewable Energy Certificates (RECs) representing proof that 351,000 kilowatt hours (kWh) of electricity were generated by Snipesville Solar Park and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of April 2023 through June 2024.

127,831 lbs of CO2 63,902 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 127,831 pounds of avoided carbon emissions which is similar to preventing the combustion of over 63,000 pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



195,000 Tons

Commissioned in 2023, this clean energy facility is estimated to avoid 195,000 tons of carbon emissions a year



107 MW

This solar facility has a nameplate capacity of 107 Megawatts AC.



18,000 Homes

Annually this facility is capable of powering up to 18,000 homes with clean energy.



Woodfields Solar Greenwood, South Carolina USA

Renewable Energy Certificate Serial Numbers: NCRETS-REC-3047-SC-07-2023-147816-1 to 351

351 RECs 351,000 kWh

351 Renewable Energy Certificates (RECs) representing proof that 351,000 kilowatt hours (kWh) of electricity were generated by Woodfields Solar and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of April 2023 through June 2024.

540,585 lbs of CO2 270,235 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 540,585 pounds of avoided carbon emissions which is similar to preventing the combustion of over 270,000 pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



270 Tons

Commissioned in 2022, this clean energy facility is estimated to avoid 270 tons of carbon emissions a year



This solar facility has a nameplate capacity of 2 Megawatts AC.



500 Homes

Annually this facility is capable of powering up to 500 homes with clean energy.

Second Second Second

Cedar Bluff Wind Farm Brownell, Kansas

USA

Renewable Energy Certificate Serial Numbers: NAR-REC-2125-KS-02-2016-63201-1 to 46117; NAR-REC-2125-KS-04-2018-77425-1 to 52705; NAR-REC-2125-KS-01-2017-67926-2 to 54352

235,905,977 lbs of CO2 117,927,877 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 235,905,997 pounds of avoided carbon emissions which is similar to preventing the combustion of over 117 Million pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



153,173 RECs

153,173,000 kWh

Cedar Bluff and retired on behalf of

April 2023 through December 2024.

153,173 Renewable Energy Certificates (RECs)

representing proof that 153,173,000 kilowatt

hours (kWh) of electricity were generated by

customers of Sustainable Choice to match

portfolio electricity usage for the months of

111 Turbines

Online since 2015, this clean energy facility is powered by 111 individual wind turbines.



198 MW

This onshore wind facility has a total nominal power output of 189 Megawatts.



59,000 Homes

Annually this facility is capable of powering up to 59,000 homes with clean energy.

Waverly Wind Farm Coffefy County, Kansas USA

Renewable Energy

Certificate Serial Numbers:

NAR-REC-2172-KS-07-2018-78103-11354 to 25353; NAR-REC-2172-KS-03-2016-63489-1 to 16470; NAR-REC-2172-KS-07-2016-64993-22225 to 41988; NAR-REC-2172-KS-11-2017-73403-1 to 11529; NAR-REC-2172-KS-06-2017-70550-43738 to 59384; NAR-REC-2172-KS-02-2018-76595-1 to 14823

92,223 RECs 92,223,000 kWh

92,223 Renewable Energy Certificates (RECs) representing proof that 92,223,000 kilowatt hours (kWh) of electricity were generated by Waverly Wind Farm and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of April 2023 through December 2024.

142,035,195 lbs of CO2 71,002,478 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 142,035,195 pounds of avoided carbon emissions which is similar to preventing the combustion of over 71 Million pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



95 Turbines

Online since 2015, this clean energy facility is powered by 90 individual wind turbines.



199 MW

This onshore wind facility has a total nominal power output of 189 Megawatts.



54,000 Homes

Annually this facility is capable of powering up to 54,000 homes with clean energy.

Kay County Wind Farm

Kay County, Oklahoma USA

Renewable Energy Certificate Serial Numbers: NAR-REC-2333-OK-04-2020-102184-1 to 2300

2,300 RECs 2,300,000 kWh

2,300 Renewable Energy Certificates (RECs) representing proof that 2,300,000 kilowatt hours (kWh) of electricity were generated by Kay County Wind Farm and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of January 2024 through June 2024.

3,542,294 lbs of CO2 1,770,770 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 3,542,294 pounds of avoided carbon emissions which is similar to preventing the combustion of over 1.7 Million pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



130 Turbines

Constructed in 2015, this clean energy facility is powered by 130 individual wind turbines.



This onshore wind facility has a total nominal power output of 299 Megawatts.



100,000 Homes

Annually this facility is capable of powering up to 100,000 homes with clean energy.

Pratt Wind Energy Center Pratt County, Kansas USA

Renewable Energy Certificate Serial Numbers: NAR-REC-2845-KS-04-2020-102226-1 to 24118 and NAR-REC-2666-KS-01-2020-97164-1 to 21029

45,417 RECs 45,147,000 kWh

45,147 Renewable Energy Certificates (RECs) representing proof that 45,147,000 kilowatt hours (kWh) of electricity were generated by Pratt Wind Energy Center and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of January 2024 through June 2024.

69,532,144 lbs of CO2 34,758,671 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 69,532,144 pounds of avoided carbon emissions which is similar to preventing the combustion of over 34 Million pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



106 Turbines

Completed in 2018, this clean energy facility is powered by 98 Siemens wind turbines and 8 GE turbines.



onshore wind facility

243 Megawatts.



73,500 Homes

Annually this facility is capable of powering up to 73,500 homes with clean energy.

Slate Creek Wind Farm Sumner County, Kansas USA

Renewable Energy Certificate Serial Numbers: NAR-REC-2300-KS-11-2020-107535-1 to 300

300 RECs 300,000 kWh

800 Renewable Energy Certificates (RECs) representing proof that 300,000 kilowatt hours (kWh) of electricity were generated by Slate Creek Wind Farm and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of January 2024 through June 2024.

462,038 lbs of CO2 230,970 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 462,038 pounds of avoided carbon emissions which is similar to preventing the combustion of over 230,000 pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



75 Turbines

Completed in 2015, this clean energy facility is powered by 75 Vestas wind turbines.



150 MW

This onshore wind facility has a total nameplate capacity of 150 Megawatts.



55,000 Homes

Annually this facility is capable of powering up to 55,000 homes with clean energy.

Rock Creek Wind Project

Tarkio, Missouri USA

Renewable Energy Certificate Serial Numbers: NAR-REC-2531-MO-03-2020-98265-52633 to 60688 and NAR-REC-2531-MO-03-2020-98265-52495 to 52632

8,194 RECs 8,194,000 kWh

8,056 Renewable Energy Certificates (RECs) representing proof that 8,056,000 kilowatt hours (kWh) of electricity were generated by Rock Creek Wind Project and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of January 2024 through June 2024.

12,619,806 lbs of CO2 6,308,560 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 12,619,806 pounds of avoided carbon emissions which is similar to preventing the combustion of over 6.3 Million pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



150 Turbines

Completed in 2017, this clean energy facility is powered by 150 Vestas wind turbines.



This onshore wind facility has a total nameplate capacity of 300 Megawatts.



100,000 Homes

Annually this facility is capable of powering up to 100,000 homes with clean energy.

Traverse Wind Energy III

Blaine & Custer County Oklahoma USA

Renewable Energy Certificate Serial Numbers: NAR-REC-4182-OK-02-2024-154113-1 to 238

238 RECs 238,000 kWh

8,056 Renewable Energy Certificates (RECs) representing proof that 238,000 kilowatt hours (kWh) of electricity were generated by Traverse Wind and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of January 2024 through June 2024.

366,550 lbs of CO2 183,236 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 366,550 pounds of avoided carbon emissions which is similar to preventing the combustion of over 183,000 pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



356 Turbines

Completed in 2022, this clean energy facility is powered by 356 GE wind turbines.



This onshore wind facility has a total nameplate capacity of 998 Megawatts.



300,000 Homes

Annually this facility is capable of powering up to 300,000 homes with clean energy.

Thunder Ranch Wind Energy

Garfield, Noble & Kay County Oklahoma USA

Renewable Energy Certificate Serial Numbers: NAR-REC-2532-OK-11-2023-149969-23414 to 23565

152 RECs 152,000 kWh

152 Renewable Energy Certificates (RECs) representing proof that 152,000 kilowatt hours (kWh) of electricity were generated by Thunder Ranch and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of January 2024 through June 2024.

234,099 lbs of CO2 117,025 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 234,099 pounds of avoided carbon emissions which is similar to preventing the combustion of over 117,000 pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



120 Turbines

Completed in 2017, this clean energy facility is powered by 120 GE wind turbines.



This onshore wind facility has a total nameplate capacity of 298 Megawatts.



89,400 Homes

Annually this facility is capable of powering up to 89,400 homes with clean energy.



HYDROELECTRIC RENEWABLE ENERGY CERTIFICATES



Blue Mesa Power Plant Gunnison, Colorado USA

Renewable Energy Certificate Serial Numbers: WREGIS-16367-CO-0-1-2018-1145-1676

532 RECs 532,000 kWh

532 Renewable Energy Certificates (RECs) representing proof that 532,000 kilowatt hours (kWh) of electricity were generated by Blue Mesa Power Plant and retired on behalf of customers of Sustainable Choice to match portfolio electricity usage for the months of January 2024 through June 2024.

819,348 lbs of CO2 409,587 lbs of Coal

According to the EPA Greenhouse Gas Equivalencies Calculator, the RECs retired are estimated to represent 819,348 pounds of avoided carbon emissions which is similar to preventing the combustion of over 400,000 pounds of coal.

Source: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Renewable Resource Snapshot



2 Turbines

Blue Mesa consists of two 43,200-kilowatt generators, driven by two 41,500horsepower turbines.



Significantly upgraded in 2002, this facility has a nameplate capacity of 86.4 Megawatts



24,375 Homes

Annually this facility is capable of powering up to 24,375 homes with clean energy.

Q2 2023 - Q2 2024 SUMMARY

Source	Energy Delivered	Emissions Avoided
Solar Snipesville Solar Woodfields Solar	83 MWh 351 MWh	127,831 lbs CO2e 540,585 lbs CO2e
Wind Cedar Bluff Waverly Kay County Pratt Wind Slate Creek Rock Creek Traverse Wind Thunder Ranch	153,173 MWh 92,233 MWh 2,300 MWh 45,147 MWh 300 MWh 8,194 MWh 238 MWh 152 MWh	235,905,977 lbs CO2e 142,050,596 lbs CO2e 3,542,294 lbs CO2e 69,947,979 lbs CO2e 462,038 lbs CO2e 12,619,806 lbs CO2e 366,550 lbs CO2e 234,099 lbs CO2e
Hydroelectric Blue Mesa	532 MWh	819,348 lbs CO2e
Total 11 Facilities	302,703 MWh	466,383,004 lbs CO2e

Together We Can Reach One Terawatt Hour

Help the Sustainable Choice community deliver 1 trillion watts of renewable energy!



What is a Moonshot?

The term "moonshot" signifies a bold, visionary goal that pushes the boundaries of what is considered achievable, requiring innovation, collaboration, and an unwavering belief in the possibility of success. It's about aiming high and transforming ambitious dreams into reality



What is The Terawatt Moonshot?

One terawatt of clean energy represents a seismic shift in how we power our world. To put this in context, 1 Terawatt hour is the equivalent of powering one million homes for a year. It is a testament to our commitment to a more affordable, sustainable energy system.



How to Participate?

As a Sustainable Choice member, your personal efforts are added to the larger community effort to reach this goal. Want to help speed up progress? Ask friends and family members to join us in making a real impact.

One Terawatt Hour Progress

30%

SOURCES

- 1. Calculation based on <u>Annual Average U.S. Household Energy Consumption of 899kWh per month per</u> <u>U.S. Energy Information Administration.</u>
- 2. Calculation based on <u>Average Mobile Phone Energy Consumption of 1.83 kilowatt hours per year.</u>
- 3. Emissions avoidance and equivalencies obtained using the <u>U.S. Environmental Protection Agency's</u> <u>Greenhouse Gas Equivalencies Calculator:</u>

<u>Solar RECs</u>

Snipesville Solar Park

- Data: <u>Power Technology Power plant</u> profile: <u>SR Snipesville III Solar PV Park, US</u>
- Image: <u>"Green Power EMC, Silicon Ranch</u> <u>complete 200 MW solar portfolio in</u> <u>southern Georgia," Solar Builder Mag</u>

Wind RECs

Cedar Bluff

- Data: (1) <u>Grid Info, Cedar Bluff Wind</u> (2) <u>Power</u> <u>Technology Power plant profile: Cedar Bluff</u> <u>Wind Farm</u> (3) <u>The Wind Power, Cedar Bluff US</u>
- Image: Google Earth Satellite

Waverly

- Data: (1) <u>The Wind Power, Waverly</u> (2) <u>EDP</u> <u>Renewables, Waverly Wind Farm</u> (3) <u>EDP</u> <u>Renewables Waverly Wind Farm Factsheet</u>
- Image: <u>EDP Renewables Waverly Wind Farm</u> <u>Factsheet</u>

Kay County

- Data: (1) <u>Southern Power Kay Wind Factsheet</u>
 (2) <u>Power Technology, Kay Wind Project, Kay</u> <u>County, Oklahoma</u>
- Image: <u>Southern Power Kay Wind Factsheet</u>

Pratt Wind

- Data: (1) <u>Power Technology, Power plant</u> <u>profile: Pratt Wind Energy Center, US</u> (2) <u>The</u> <u>Wind Power, Pratt Energy Center</u>
- Image: <u>NextEra Energy Resources, Pratt Wind</u> <u>Energy Center</u>

Woodfields Solar

- Data from <u>Grid Info, Woodfields Solar</u>
- Image: Google Maps Satellite

Slate Creek

- Data: <u>Power Technology, Power Plant Profile:</u> <u>Slate Creek Wind Farm</u>
- Image: Wind Power Engineering, EDF RE and Axium Infrastructure partner on Slate Creek Wind Project

Rock Creek

- Data: <u>Power Technology, Power Plant Profile:</u> <u>Rock Creek Wind Farm</u>
- Image: <u>NS_Energy, Rock Creek Wind Farm,</u> <u>Atchison County, MO</u>

Traverse Wind

- Data: (1) <u>Power Technology, Power Plant</u> <u>Profile: Traverse Wind Project</u> (2) <u>NS Energy,</u> <u>Traverse Wind Energy Centre, Oklahoma,</u>
- Image: <u>NS Energy, Traverse Wind Energy</u> <u>Centre, Oklahoma, US</u>

Thunder Ranch

- Data: The Wind Power, Thunder Ranch USA
- Image: <u>Enid News & Eagle, Thunder Ranch, Red</u> <u>Dirt wind farms commence operations</u>

<u>Hydro RECs</u>

Blue Mesa

- Data: (1) <u>Grid Info, Blue Mesa</u> (2) <u>Global Energy Monitor Wiki, Blue Mesa hydroelectric</u> <u>plant</u>, (3) <u>US Bureau of Reclamation, Projects and Facilities, Blue Mesa</u>
- Image: <u>Wikipedia, Blue Mesa Dam</u>

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