



Evergy Renewable Energy

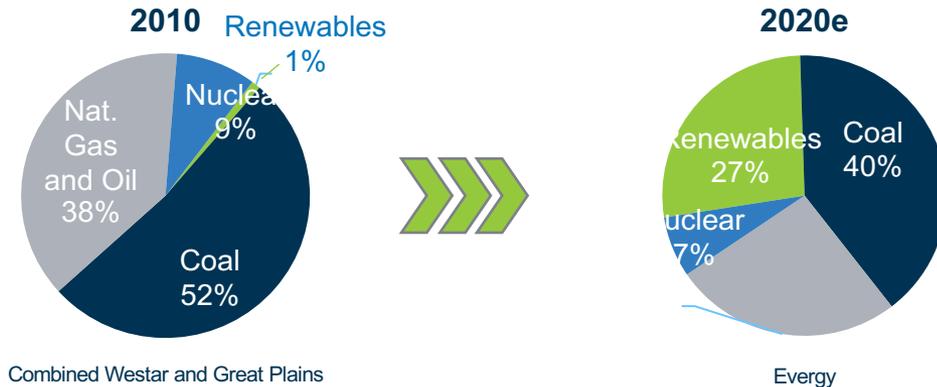
Tammie Rhea



Sustainable Energy Portfolio

- By 2020, we expect carbon emission reductions of over 40%, from 2010 levels
- Wind portfolio will be over 3,800MW by year-end 2021
- Emission-free sources (renewable and nuclear) provide nearly half of retail customers' energy needs
- Strong platform to grow renewables and take advantage of abundant local natural resources

Generation Capacity by Fuel Type





Clean Energy Leader



- Well ahead of renewable portfolio standards in Missouri and voluntary goals in Kansas
 - Missouri RPS requires 15% electricity sales to customers with renewable sources by 2021
 - Kansas has voluntary goal of 20% utility's peak by 2020

Renewable Energy

Evergy Renewables

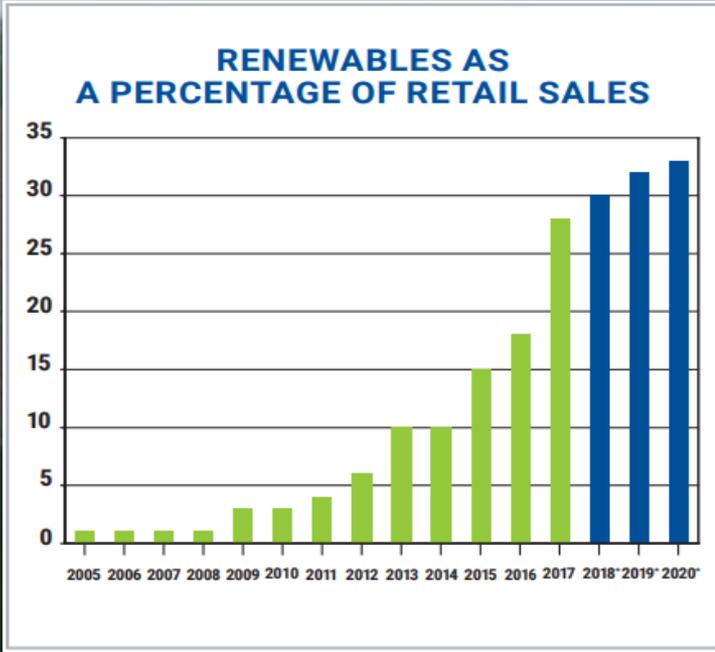
- 3,100 MW of Wind will increase to over 3,800 by 2021
- 60 MW of Hydro
- 7.2 MW of Landfill Gas
 - Rolling Meadows
 - St. Joe LFG
- 4.56 MW of Solar
- Distributed Generation
 - 97 MW of Solar
 - 1 MW of Wind



118 kW system in Lenexa

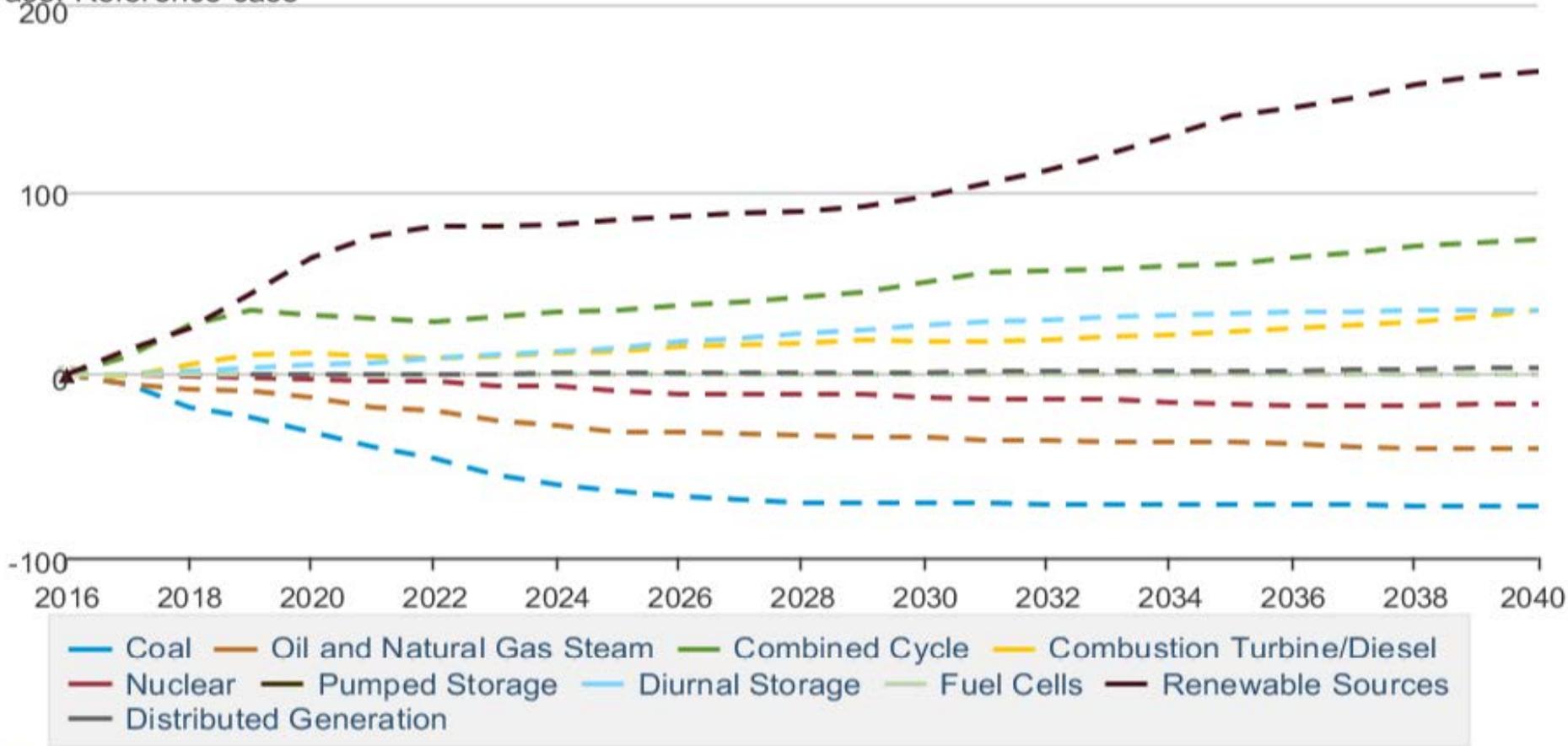
Clean Energy Milestones

Since 2017 more than half the power to Evergy customers have come from emission-free sources---renewables and nuclear power.



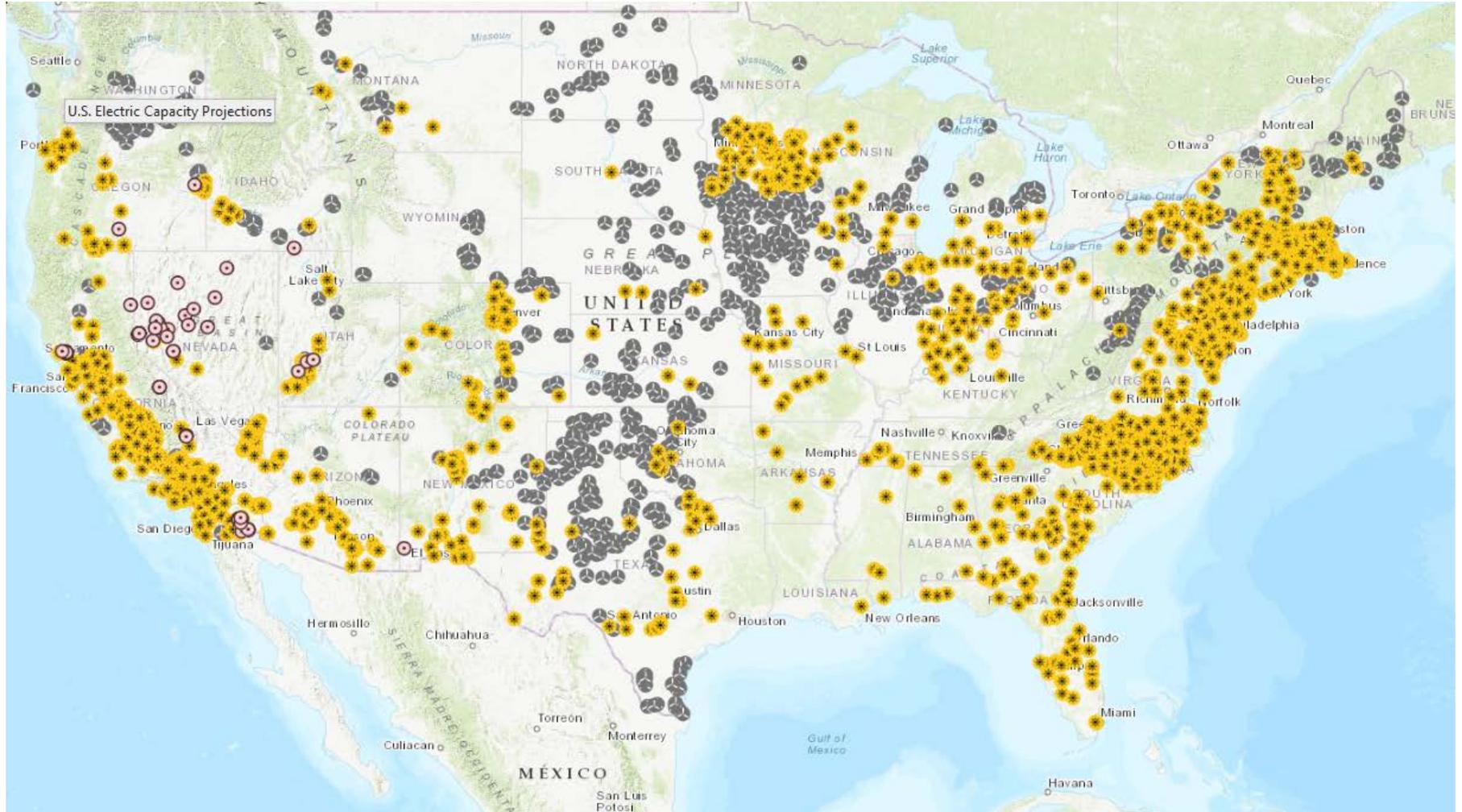
U.S. Electric Capacity Projections

Indexed to 2016 as value
Case: Reference case



Source: U.S. Energy Information Administration

Map of Wind and Solar Facilities

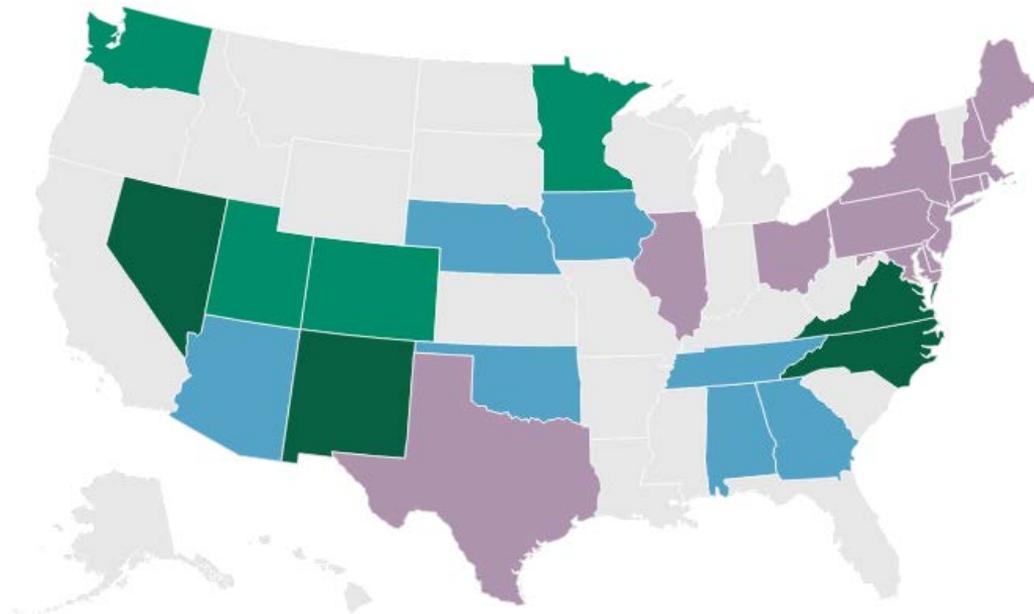


<https://www.eia.gov/state/maps.php?v=Renewable>

Opportunity-2016

U.S. RENEWABLE ENERGY MAP: A GUIDE FOR CORPORATE BUYERS

Where customers can buy large-scale renewable energy through the grid



Utility Renewable Energy (RE) Deals

- Green tariff(s) and executed RE deal(s) through tariff
- Green tariff(s) but no deal(s) through tariff to date
- Considering a green tariff (proposal with the PUC)
- One-on-one RE deal(s) between companies and utilities, but no green tariff to date
- Electric retail choice easily available (EIA)
- No known direct large-scale RE access available



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Commercial & Industrial Renewable Strategy

- Economic product
- Long term price certainty
- “Additionality”
 - Drive the addition of renewable generation
 - The ability to claim ownership of a project
- De-Risk the Virtual PPA



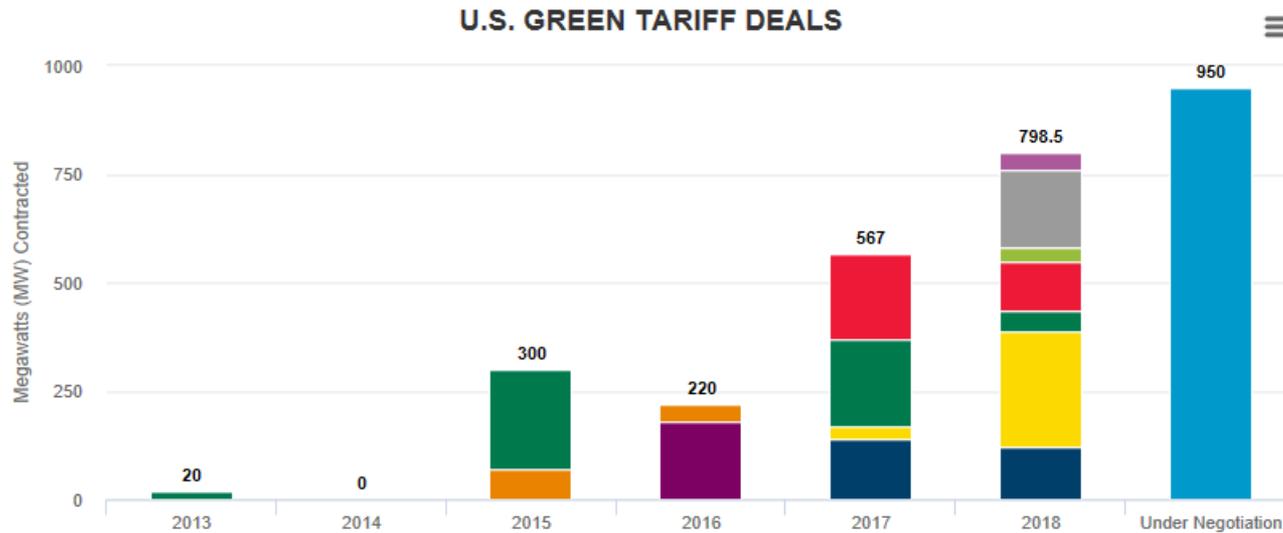


Key Challenges

- Provide a product that benefits all customers
- Utilize best local resource
 - Benefit to local economy
- Intermittent generation vs. time energy is used
- De-Risk the product
 - Long-term price certainty
 - Congestion
 - Curtailment risk
 - Location

Green Tariff Deals

Grid Transformation: Green Tariff Deals



Green Tariffs

(Click to Explore Each Tariff)

- Colorado - Renewable*Connect
- Georgia - Commercial and Industrial REDI Schedule CIR -1
- Michigan - Voluntary Large Customer Renewable Energy Pilot Program
- Nebraska - Schedule No. 261 M
- Nevada - Green Energy Rider, Schedule NGR
- New Mexico - Green Energy Rider, No. 47
- North Carolina - Green Source Rider, Rider GS
- Virginia - Schedule MBR
- Washington - Green Direct, Sched No. 139
- Under Negotiation

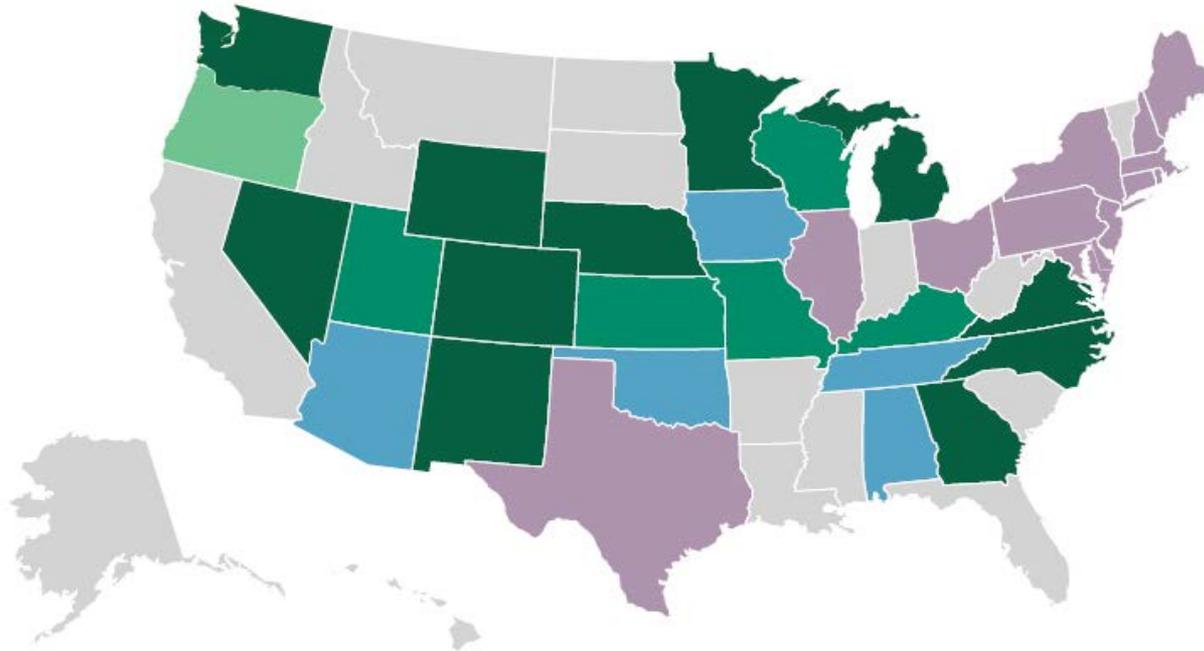


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<https://www.wri.org/resources/charts-graphs/grid-transformation-green-tariff-deals>

Success!

STATES WITH GREEN TARIFF PROGRAMS, OCTOBER 2018



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Note: In states with multiple green tariffs, the green coloring indicates the furthest a green tariff has been utilized. For example, in Virginia there are five green tariffs with differing statuses; however, only one green tariff has been used to execute a renewable energy deal. The interactive version of this map includes additional information on the various tariffs provided in each state and the deals executed under each. See WRI 2017.

Source: WRI 2017.

Renewable Energy Programs

Net Metering/Parallel Generation

- Programs that compensate for energy exported to Utility
 - Net Metering offers a 1:1 kWh exchange
 - System sizing limitation based on historical usage
 - PG offers credit per kWh
 - System sizing is more flexible
- Rules are statutory based but similar in implementation
- 95+ MW of customer-owned generation
- Rebates currently available in MO



Solar Rebates-Round 2

- Missouri SB 564
 - Pass in May 2018
- Rebates available for new or expanded systems
 - Up to 25 kW for Residential; 150 kW for non-Residential
 - Applies to all types of interconnections
- Rebate Payout:
 - \$0.50/watt- Operational before 6/30/19
 - \$0.25/watt- Operational before 12/31/23
- \$8.0M per MO jurisdiction; \$16M total made available upfront
- Business Social Service Programs

Wind Subscription- Coming to MO

- All customers can choose up to 100% of their energy from renewable sources
 - \$.0025/kWh (added to current bill)
 - Renewable Energy Credits (REC's)

2019

- Over 33,000 customers signed up as of 12/31/2019
- Projected to retire 185,000 REC's

FLEXIBILITY

There is no long-term commitment to the program, and you can elect to change your percentage of wind power at any time.

AFFORDABILITY

The average residential customer can commit to 100% wind energy for only \$2.50 more per month. There is no up-front cost, and you can cancel at any time. Being green has never been more affordable.

SUSTAINABILITY

Your purchase increases the environmental benefits associated with renewable energy, such as reducing fossil fuel emissions. This helps sustain the Kansas environment for the future.



Evergy Solar Subscription Program

- Up to 5 MW of capacity
- All customers are eligible
- Offset a selected portion of energy
- Expected to be premium product
 - \$5-\$15/mo.
 - Potential for price decrease
- Local resource
- Expandable
- Current interest list is ~1000 Customers





Evergy Renewables Direct

- Customers with load of 200+ kW; 100-200 MW available
- Offset 1-100% of energy
- 5, 10, 15, 20-year terms
- **KCP&L-Kansas**
 - Fixed Renewable Participation Charge: \$0.0XX/kWh
 - Replaces variable fuel adjustment (~\$0.021/kWh)
- **KCP&L-Missouri**
 - Customers agree to Subscription Charge: \$XX.XX/MWh
 - Resulting costs/credits reflected on bill via Renewable Adjustment
- Costs for programs will be based on chosen resource(s)
- RECs transferred customer/ retired on their behalf



Non-Tariff Programs

- Direct Purchase of REC's
 - MGP – 3 year agreement
- Wholesale Wind – aggregate wholesale customers
- Virtual PPA – no impact to Westar bill; buyer takes full market risk

Evergy Wholesale Solar- Non Tariff

- Evergy advantage
 - Trusted business partner
 - Builder – Operator – Owner – Seller of power for over 100 years
 - Economies of scale
- Expand customer base through NEW partnerships
- City of Baldwin City Solar PV Array
 - 1.211 MW DC/0.980 MW AC
 - 30 year PPA



Evergy Solar- Non Solar

- Established in 2013
 - Trusted business partner
 - Economies of scale
- 65 solar PV arrays installed
- KC Royals
 - 120 Panel system
 - Largest in-stadium solar array



Thank You