USDA REAP Presentation

February 9, 2021



Tennessee Valley & Public Power

TVA Mission

Energy



TVA delivers safe, reliable, cleaner, competitively priced electricity

Environment

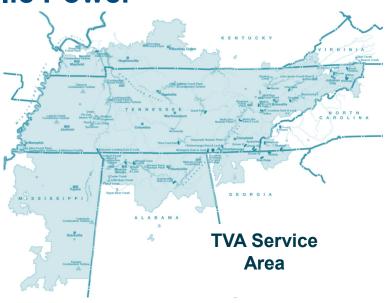


TVA is committed to limiting the environmental impact of our operations

Economic Development



Economic Development is a cornerstone of TVA's mission to make life better for Valley residents



- As the largest public power company in the nation, TVA is doing everything possible to keep more money in customers' wallets.
- Right now TVA has the **lowest industrial electric rates among our peers**—this is a tremendous competitive advantage that makes the Valley an attractive place to do business.
- From a financial perspective, TVA does not have shareholders whose dividends are paid through rates. Every penny is reinvested into furthering the mission of Energy, Environment, and Economic Development.



Delivering a Cleaner Energy Grid



TVA system carbon emissions rate is forecasted to approach a 60% reduction by 2020 and a 70% reduction by 2030 from a 2005 baseline.





- Lighting Upgrades
- Compressed Air Optimization
- Energy Management Systems/Programmable Thermostats
- HVAC Upgrades
- Electric Forklifts EPRI Forklift Calculator
- 6 Heat recovery opportunities



2020 TVA Renewable Solutions



ONSITE SOLUTIONS

OFFSITE SOLUTIONS

| | | DISPERSED POWER PRODUCTION | GREEN INVEST | GREEN SWITCH | GREEN FLEX |
|----------------|-----------------------------------|----------------------------|--|-------------------|-----------------------|
| Q LC | OCATION | On-site | In the Valley | In the Valley | Out of the Valley |
| क्षां ० | OMMITMENT | 5 Years | Up to 20 years | Short term | 1 Year |
| PRICE / CREDIT | | ~\$25/ MWh Credit | Market-based | \$10/ MWh | \$1.50/ MWh |
| SIZE | | Varies | Large Scale | Small Scale | Mid to Large Scale |
| CERTIFICATION | | NA | NA | Green-e certified | Green-e certified |
| TECHNOLOGY | WIND SOLAR BIOMASS OTHER | Co-generation | TVA procures renewables to meet up to 100% of customer's load | Ø Ø | • |





Dispersed Power Production



Dispersed Power Production (DPP) Overview





Key Principles:

- **5-year Power Purchase Agreement (PPA)** between TVA and Qualified Facility
 - No contract with LPC for DPP
- Guidelines Posted on TVA's external DPP website
- Pricing set monthly and published on TVA's external DPP website
 - Based on TVA's short-term forecasted avoided costs
- Qualifying Facilities Small Power Producers (Up to 80MW) or Cogeneration Facility





Green Invest



Green Invest



Replacing Renewable Investment Agreement (RIA)



Key Principles:

- **NEW-**to-the-world, in-Valley Utility-Scale Renewables
- Customer will have a load commitment commensurate with renewable supply being procured
- The Power Purchase Agreements will be for energy delivered terms of up to 20 years
- Collaborative, competitive procurement
- **Fixed product pricing** set to cover the additional cost of renewable power

TOTAL ENERGY SOLUTION | REC MANAGEMENT | TURN KEY SOLUTION





Green Flex



Green Flex

M Green

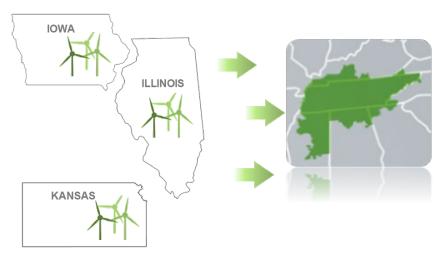
Replacing Southeastern RECs

Green Flex allows business and industry customers to reduce their environmental impact.

CY20 Price: \$1.50/MWh*

- 1-year contract
- Program operates on a calendar year basis i.e. January 2020 – December 2020
- Annual Minimum 2,000 RECs
- 100% wind located outside of the Valley; Wind energy is delivered to the Valley via existing PPAs

OUT OF VALLEY WIND ENERGY



NO LONG TERM COMMITMENT | NO UPFRONT COST | NO ADDITIONAL INFRASTRUCTURE NEEDED







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THANK YOU!