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# Valley Renewable Energy Solutions Guide

**TVA** / **GREEN**

# TVA Renewable Solutions

## ONSITE SOLUTIONS

## OFFSITE SOLUTIONS

		GREEN CONNECT	DISPERSED POWER PRODUCTION	GREEN INVEST	GREEN SWITCH	GREEN FLEX
	LOCATION	On-site	On-site	In the Tennessee Valley <sup>†</sup>	In the Tennessee Valley <sup>†</sup>	Delivered to the Valley <sup>††</sup>
	COMMITMENT	NA	5 Years	Up to 20 Years	Short term	1 Year
	PRICE/CREDIT	No generation credit, no purchased power	TVA's monthly avoided cost (-\$0.025/kWh credit)	Market-based	\$2/200 kWh \$0.01/kWh <sup>***</sup>	\$3.00/REC
	MINIMUM CUSTOMER COMMITMENT	Private-scale	≤ 80 MW	≥ 1 MW	≥ 200 kWh ≥ 1 kWh <sup>***</sup>	≥ 2,000 MWh
	CERTIFICATION	NA*	NA	NA	Green-e <sup>®</sup> Energy	Green-e <sup>®</sup> Energy
ALSO AVAILABLE TO RESIDENTIAL CUSTOMERS		✓ *	✓		✓	
	WIND		✓	TVA procures renewables to meet up to 100% of customer's load		✓
	SOLAR	✓	✓		✓	
	BIOMASS		●			
	OTHER	Solar + Storage	Co-generation <sup>**</sup>			

\*Available to Residential Rate Customers only. Installation verification performed by program staff.

\*\*Must obtain Qualifying Facility status if generation facility has maximum net power production capacity over 1 MW, per Federal Energy Regulatory Commission requirements.

\*\*\*This enrollment option is currently offered by Middle Tennessee Electric (MTE) and Knoxville Utilities Board (KUB).

<sup>†</sup>Generation locations include: AL, GA, KY, MS, NC, TN, or VA.

<sup>††</sup>Generation locations include: Iowa, Illinois, or Kansas.

### WHAT IS A REC?

A renewable energy certificate (REC) is a tradeable, non-tangible commodity that represents the property rights to the environmental, social and other non-power attributes associated with 1 MWh of electricity that was generated and delivered to the electricity grid from a renewable energy source.

# TVA Renewable Solutions

## HELP YOUR CUSTOMERS FIND THE RIGHT SOLUTION

This guide is designed to help you find the right renewable energy solution to meet the needs of your B&I customers. The overview page touches on each program at a high level, while each subsequent page takes a deeper dive into the program features and specifics. In order to make the best use of this guide and help find the solution that best fits your customer, there are a few things you should consider.

### *What's motivating the customer?*

There are many reasons why a B&I customer may be interested in renewable energy. Understanding each customer's needs will help you determine which solution fits best.

**Below are a few examples of customer needs.**

1. Meet a carbon reduction goal above TVA's current system carbon rates\*
2. Reduce their greenhouse gas emissions (GHG)
3. Reach sustainability-minded customers and enjoy the marketing benefits of renewable energy
4. Meet corporate sustainability goals that may have regional or on-site requirements

### *What are the customer's priorities?*

Each of TVA's programs is unique, ensuring there are options to meet a wide range of customer needs. Which program fits best will depend on the customer's priorities. The guide uses the following categories when comparing each solution:



#### LOCATION

Is on-site a requirement? Is there a particular area or location the customer needs their renewable energy generated from?



#### COMMITMENT

Are they ready to make a long-term, multi-year commitment or would they prefer a month-to-month program?



#### PRICE

What type of financial commitment is the customer willing to make? What is the customer's preferred approach to ownership and financing?



#### TECHNOLOGY

Is there a preference for a certain type of renewable energy? Would they like to support a mixture of renewables?

\*For CY 2023, TVA has reduced CO2 emissions from its generation to 53% below 2005 levels. TVA plans to achieve 70% reduction by 2030, is on path to achieve 80% reduction by 2035, and aspires to achieve net-zero by 2050.

# TVA Renewable Solutions

## GREEN CONNECT

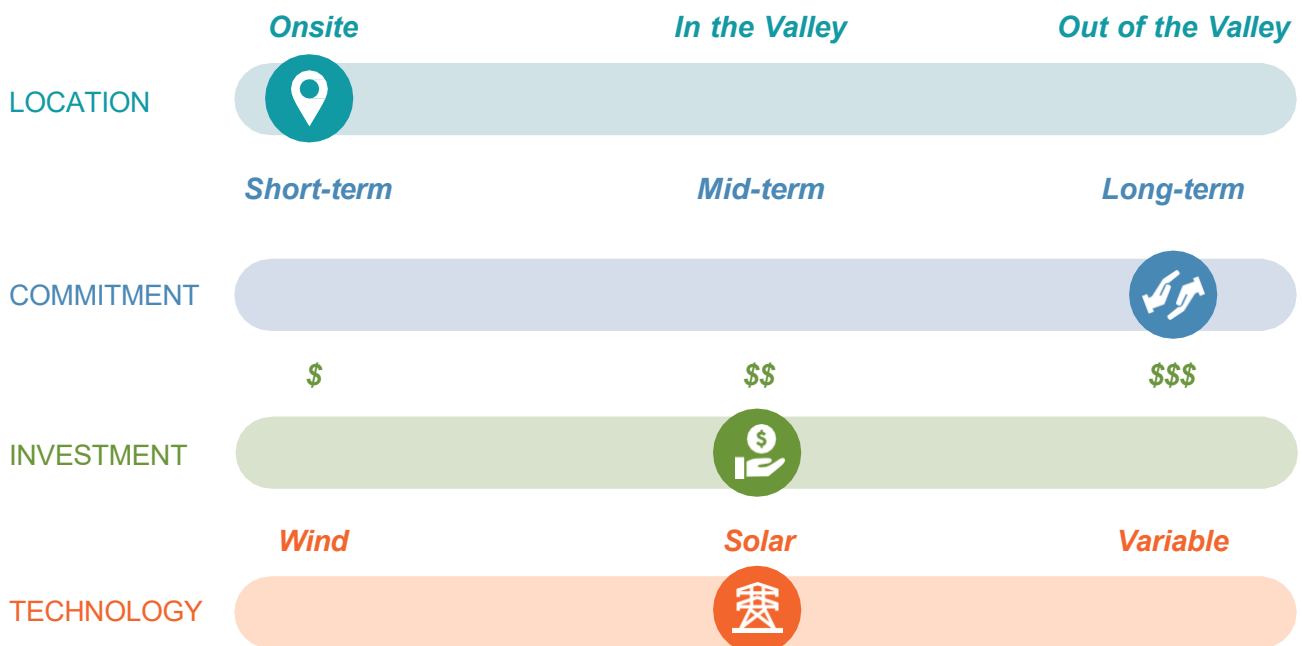
### ONSITE SOLUTION

AVAILABLE FOR RESIDENTIAL CUSTOMERS ONLY. IF YOUR RESIDENTIAL CUSTOMER SAYS:

“I am interested in installing solar panels at my home behind-the-meter.”

### ***Green Connect is their best option.***

Green Connect is a free program to participants with no contract. The information below is regarding the cost and commitment for a solar installation.



▼ TVA does not purchase the solar generation of RECs through Green Connect, but participating end-use customers may be eligible for Dispersed Power Production program

\*Estimate the cost for your solar system at [tva.com/solarcalculator](https://tva.com/solarcalculator)

# TVA Renewable Solutions



# TVA Renewable Solutions

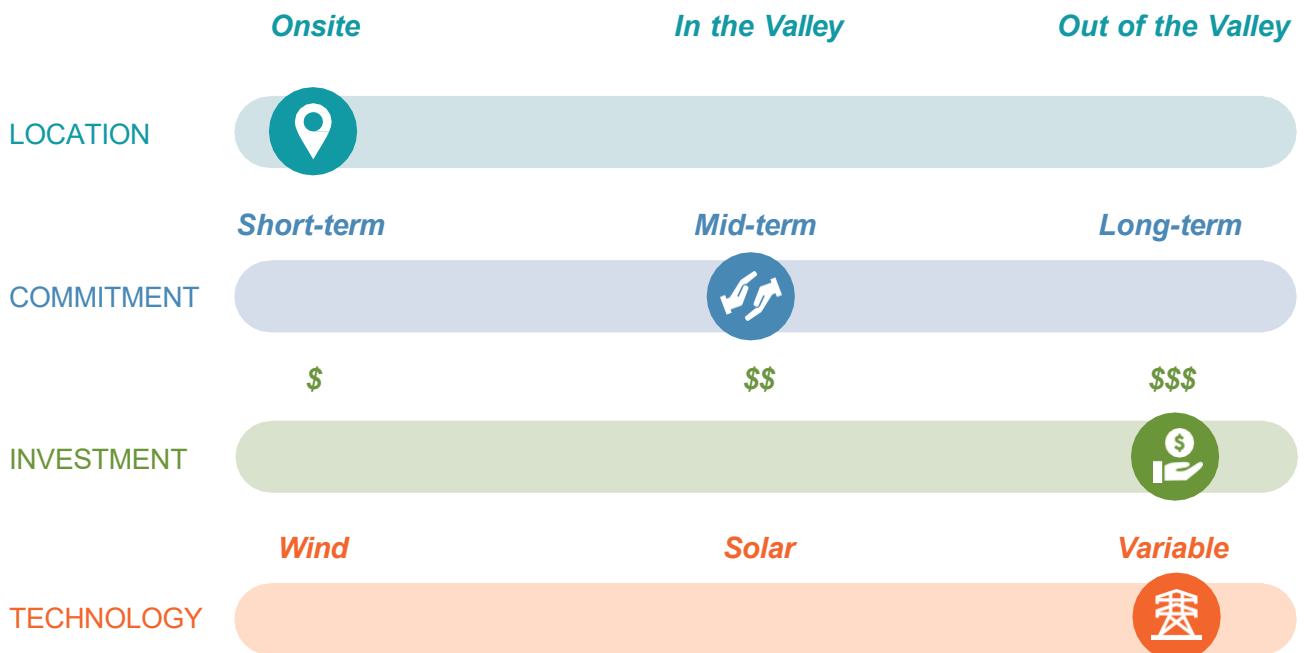
## DISPERSED POWER PRODUCTION

### ONSITE SOLUTION

IF YOUR B&I CUSTOMER SAYS:

“I have a requirement for **onsite renewable** which requires that I install a system. I also need to **retain the claims** to the renewable energy.”

**Dispersed Power Production (DPP) is their best option.**



### PROGRAM FEATURES:

- ✓ For qualified facilities up to 80 MW
- ✓ The facility sells all or excess generation to TVA at TVA's monthly avoided cost
- ✓ Systems can be wind, solar, biomass or combined heat and power (CHP)
- ✓ 5 year agreement with TVA

# TVA Renewable Solutions

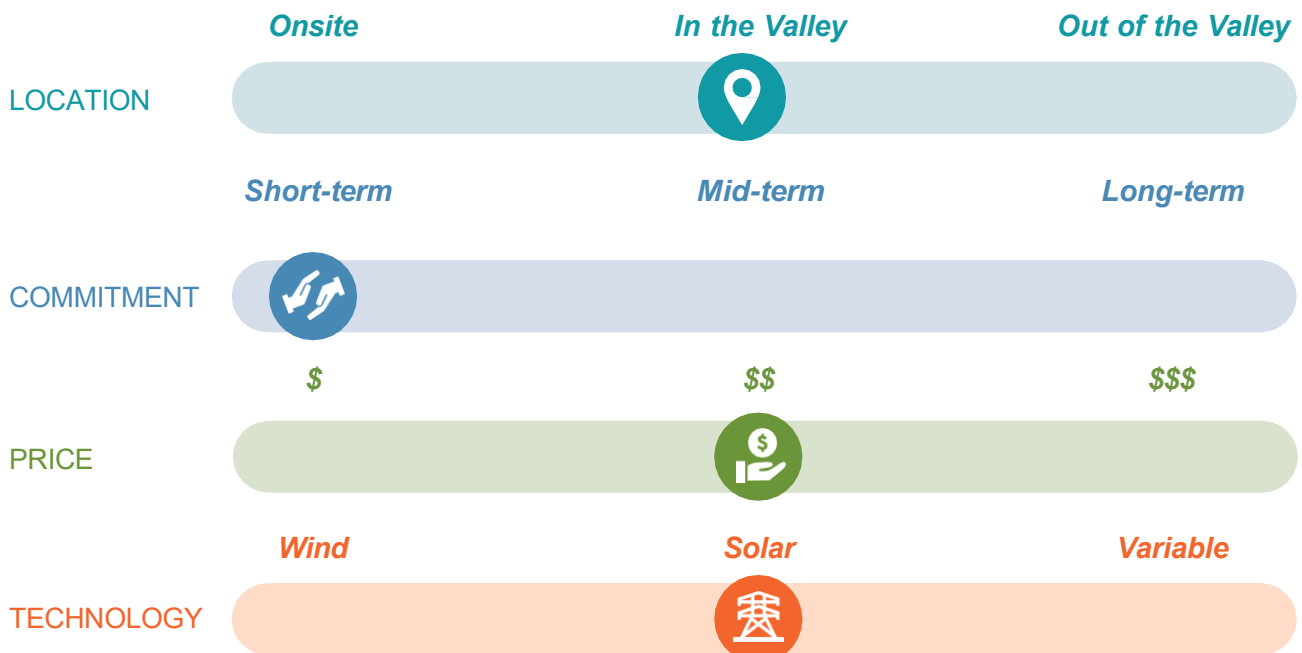
## GREEN SWITCH

### OFFSITE SOLUTION

IF YOUR B&I CUSTOMER SAYS:

“I would like to support renewables *in the Valley*, but I *don’t want to make a long-term commitment*. I’d prefer the flexibility to cancel when the program no longer meets my needs. Paying more for electricity to support renewable energy is an investment I would like to make.”

**Green Switch is their best option.**



### PROGRAM FEATURES:

- ✓ Green Switch is sold in \$2 blocks of 200 kWh or \$0.01/kWh\*\*
- ✓ All Green Switch RECs are generated in the Valley\*
- ✓ There is no contract and customers can cancel at any time
- ✓ The program consists of solar RECs
- ✓ Green Switch is Green-e® Energy certified

\* Generation locations include: AL, GA, KY, MS, NC, TN, or VA.

\*\* This enrollment option is currently offered by Middle Tennessee Electric (MTE) and Knoxville Utilities Board (KUB).

# TVA Renewable Solutions

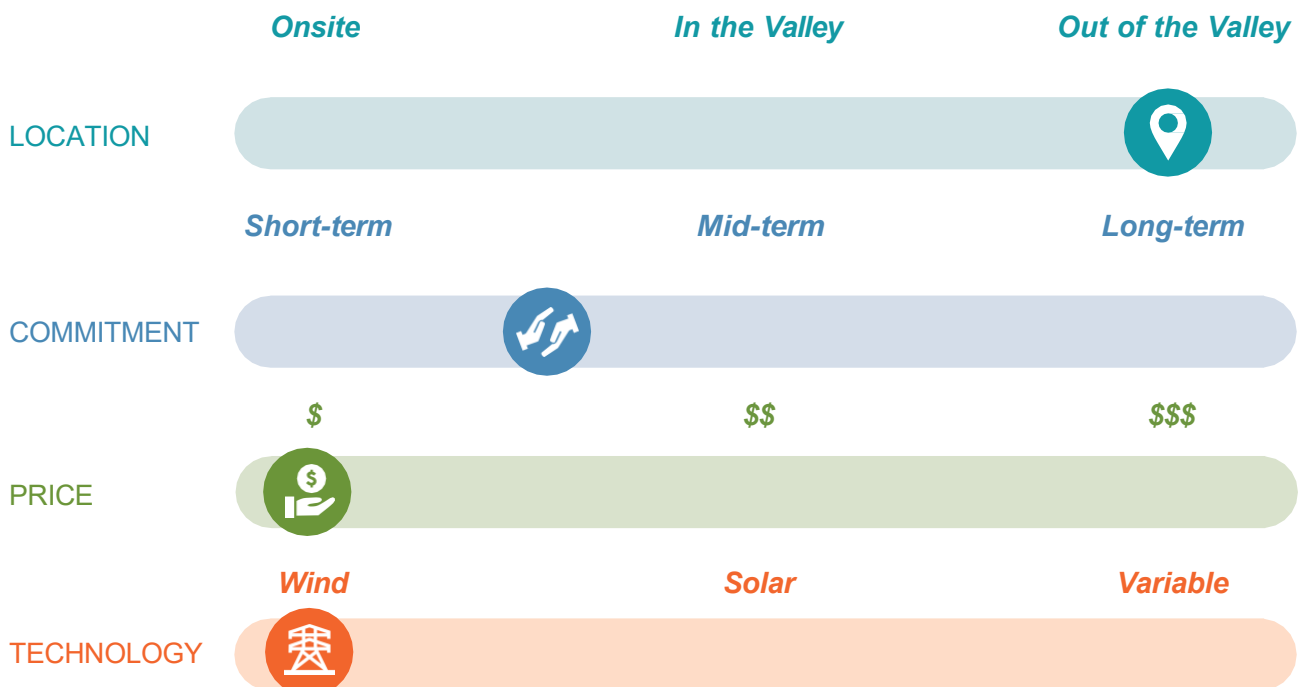
## GREEN FLEX

### OFFSITE SOLUTION

#### IF YOUR B&I CUSTOMER SAYS:

“I have a renewable energy or carbon reduction goal. **A low REC price** is most important, but I also like **not having to make a long-term commitment**. Location of the renewables does not matter to me.”

#### **Green Flex is their best option.**



#### PROGRAM FEATURES:

- ✓ Program pricing is \$3.00/REC\* and there is a minimum purchase requirement of 2,000 MWh annually
- ✓ Program consists of 100% wind RECs
- ✓ Enrollment is simple and there is no long-term commitment
- ✓ RECs are generated in the Midwest with the renewable energy being delivered to the Valley\*\*
- ✓ Green Flex is Green-e® Energy Certified

\*Pricing as of January 1, 2024. Price subject to change with 30 days notice.

\*\*Generation locations include: Iowa, Illinois, or Kansas.



# TVA Renewable Solutions

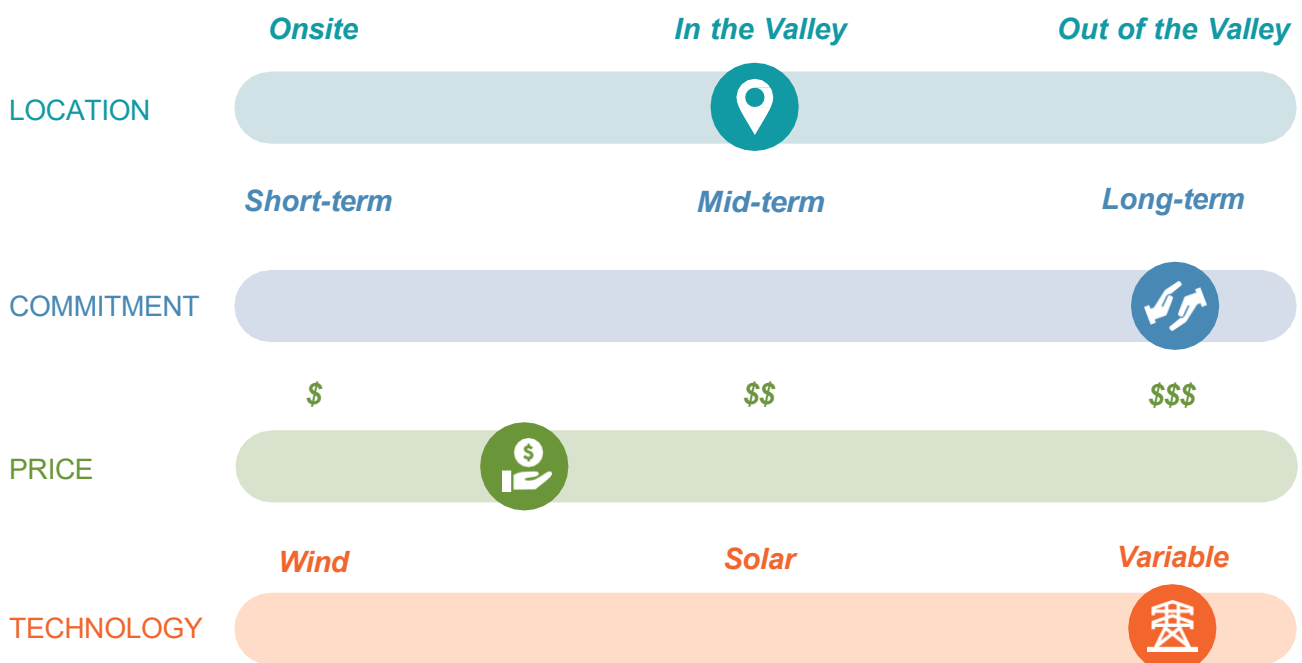
GREEN INVEST

ONSITE/OFFSITE SOLUTION

IF YOUR B&I CUSTOMER SAYS:

“My company has a requirement or strong preference for *new-to-the-world* renewables located *in the region of my operations*. I would like access to the lowest-cost option.”

*Green Invest is their best option.*



## PROGRAM FEATURES:

- ✓ TVA procures new renewables to meet up to 100% of customer's load
- ✓ Customers will purchase RECs from a new or existing in-Valley renewable project
- ✓ Minimum customer commitment is 1MW
- ✓ Provides long-term REC price stability
- ✓ Price per MWh is variable and market driven

# Valley Renewable Energy Solutions Guide

## Contact Information

Call: 866-673-4340

Email: [renewables@tva.gov](mailto:renewables@tva.gov)

Contact: Your Regional Relations Representative

Visit: [www.TVAgreen.com](http://www.TVAgreen.com)

