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# Valley Renewable Energy Solutions Guide

**TVA** / **GREEN**

# TVA Renewable Solutions

## ONSITE SOLUTIONS

## OFFSITE SOLUTIONS

		DISPERSED POWER PRODUCTION	GREEN INVEST	GREEN SWITCH	GREEN FLEX
 LOCATION		On-site	In the Tennessee Valley <sup>†</sup>	In the Tennessee Valley <sup>†</sup>	Delivered to the Valley <sup>††</sup>
 COMMITMENT		5 Years	Up to 20 Years	Short term	1 Year
 PRICE/CREDIT		TVA's monthly avoided cost (-\$0.025/kWh credit)	Market-based	\$2/200 kWh \$0.01/kWh <sup>***</sup>	\$3.25/REC
 MINIMUM CUSTOMER COMMITMENT		≤ 80 MW	≥ 1 MW	≥ 200 kWh ≥ 1 kWh <sup>***</sup>	≥ 2,000 MWh
 CERTIFICATION		NA	NA	Green-e <sup>®</sup> Energy	Green-e <sup>®</sup> Energy
ALSO AVAILABLE TO RESIDENTIAL CUSTOMERS					
 TECHNOLOGY	WIND		TVA procures renewables to meet up to 100% of customer's load		
	SOLAR				
	BIOMASS				
	OTHER	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?

\*As of 2021, TVA has reduced CO2 emissions from its generation to 63% 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

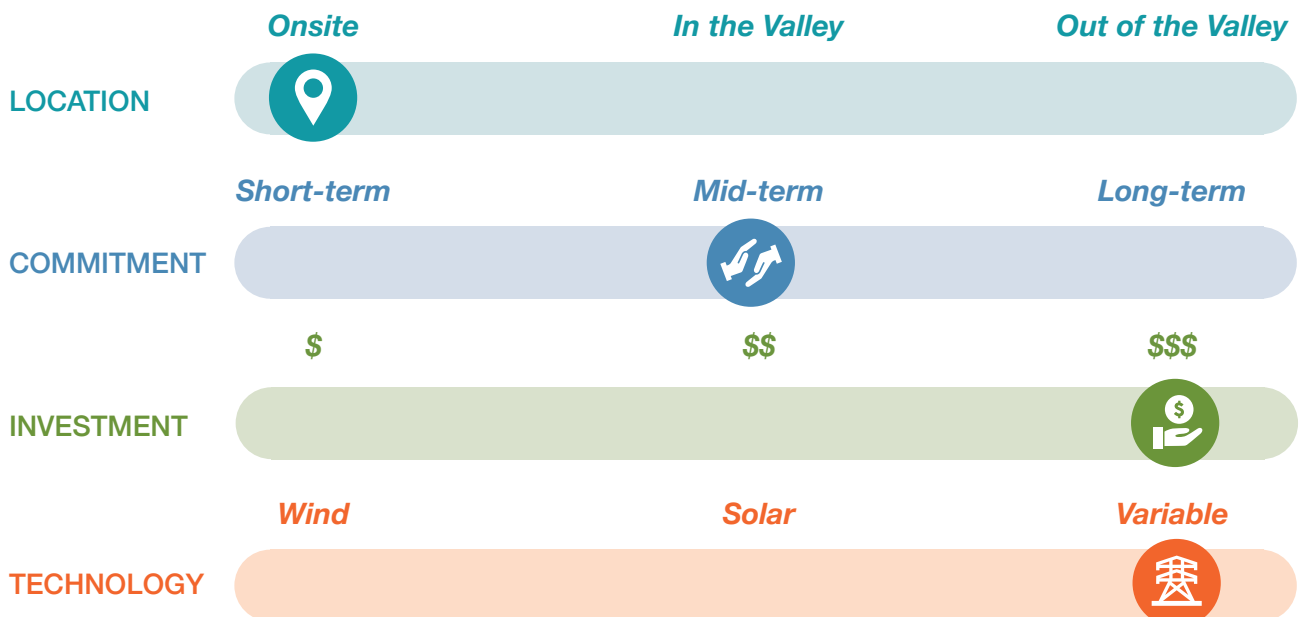
## DISPERSED POWER PRODUCTION

### 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

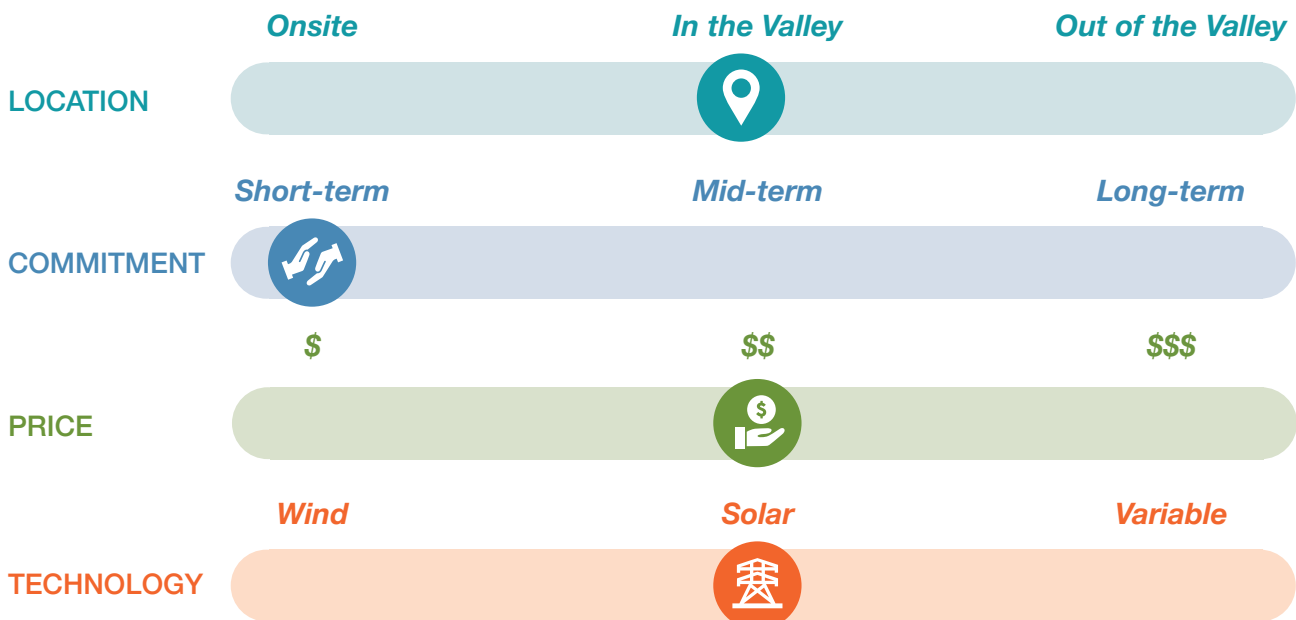
## GREEN SWITCH

### 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

# TVA Renewable Solutions

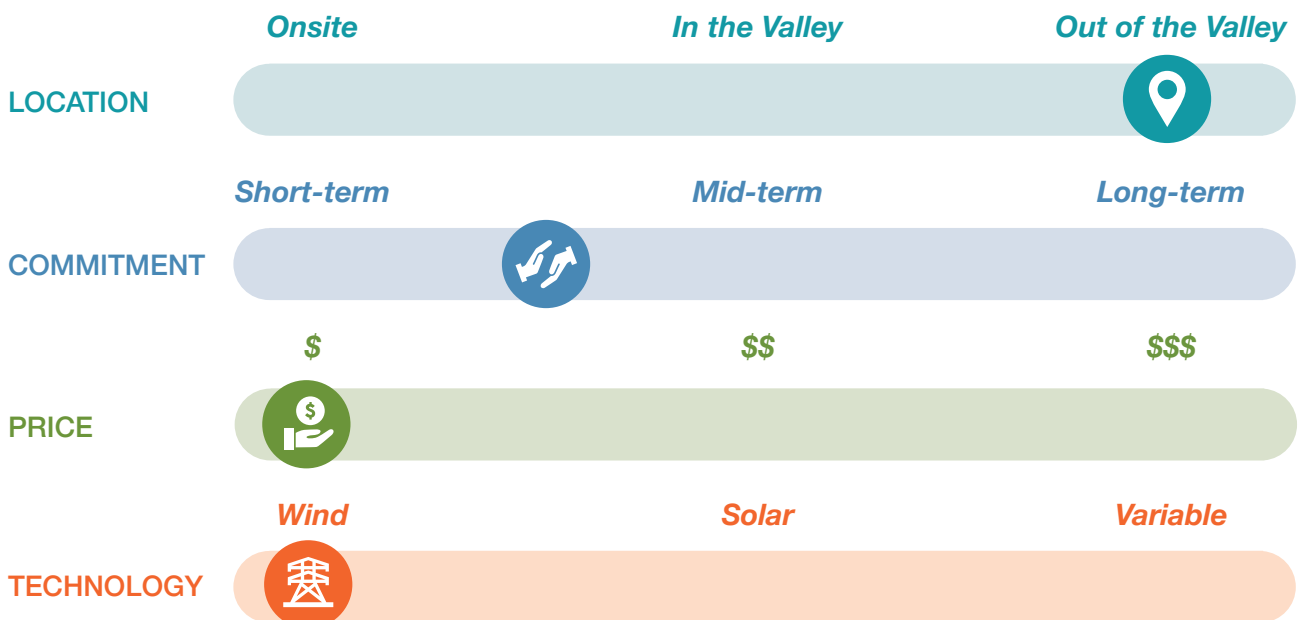
## GREEN FLEX

### 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 \$2.50/MWh\* 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

\*Price subject to change with 30 days notice.

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

# TVA Renewable Solutions

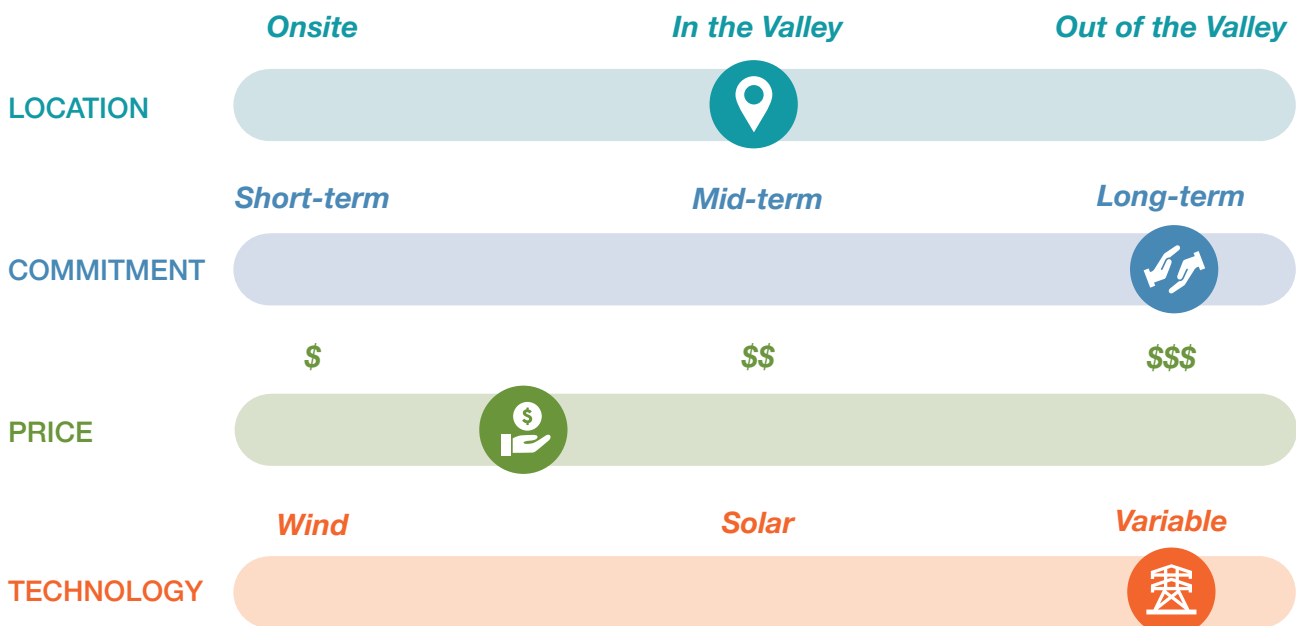
## GREEN INVEST

### 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, in-Valley renewable project
- ✓ Minimum customer commitment is 10 MW
- ✓ Provides long-term REC price stability
- ✓ Price per MWh is variable and market driven

# Valley Renewable Energy Solutions Guide

## Contact Information

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