



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 [†]	In the Tennessee Valley [†]	Delivered to the Valley ^{††}	
	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 ^{***}	\$2.50/REC	
	MINIMUM CUSTOMER COMMITMENT	Private-scale	≤ 80 MW	≥ 1 MW	≥ 200 kWh ≥ 1 kWh ^{***}	≥ 2,000 MWh	
	CERTIFICATION	NA*	NA	NA	Green-e® Energy	Green-e® Energy	
ALSO AVAILABLE TO RESIDENTIAL CUSTOMERS		 *					
	WIND						
	SOLAR						
	BIOMASS						
	OTHER	Solar + Storage	Co-generation ^{***}	TVA procures renewables to meet up to 100% of customer's load			

*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).

[†]Generation locations include: AL, GA, KY, MS, NC, TN, or VA.
^{††}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.



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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.

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GREEN CONNECT

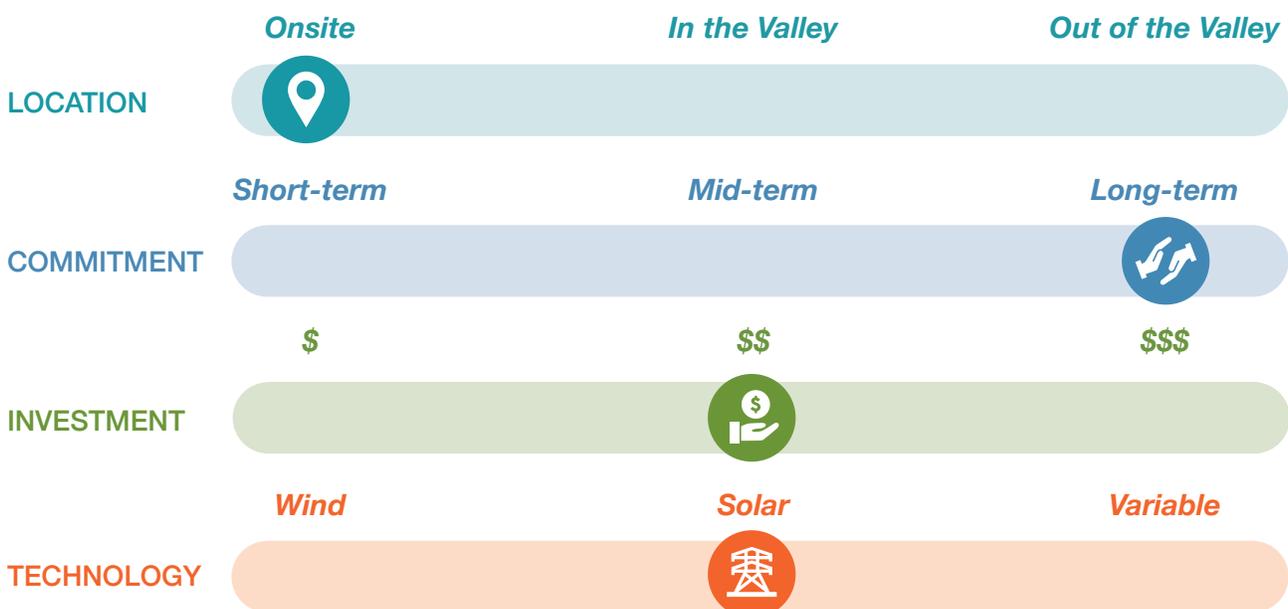
ONSITE SOLUTION

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.



PROGRAM FEATURES:

- ✓ Provides end-use customers access to learning modules on how solar works and the importance of properly sizing a system
- ✓ Connects end-use customers with solar installers in TVA’s Quality Contractor Network
- ✓ TVA or the end-use customer’s Local Power Company will perform an installation verification to confirm it meets TVA interconnection standards
- ✓ End-use customers can install solar system with or without battery storage
- ✓ TVA does not purchase the solar generation or 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

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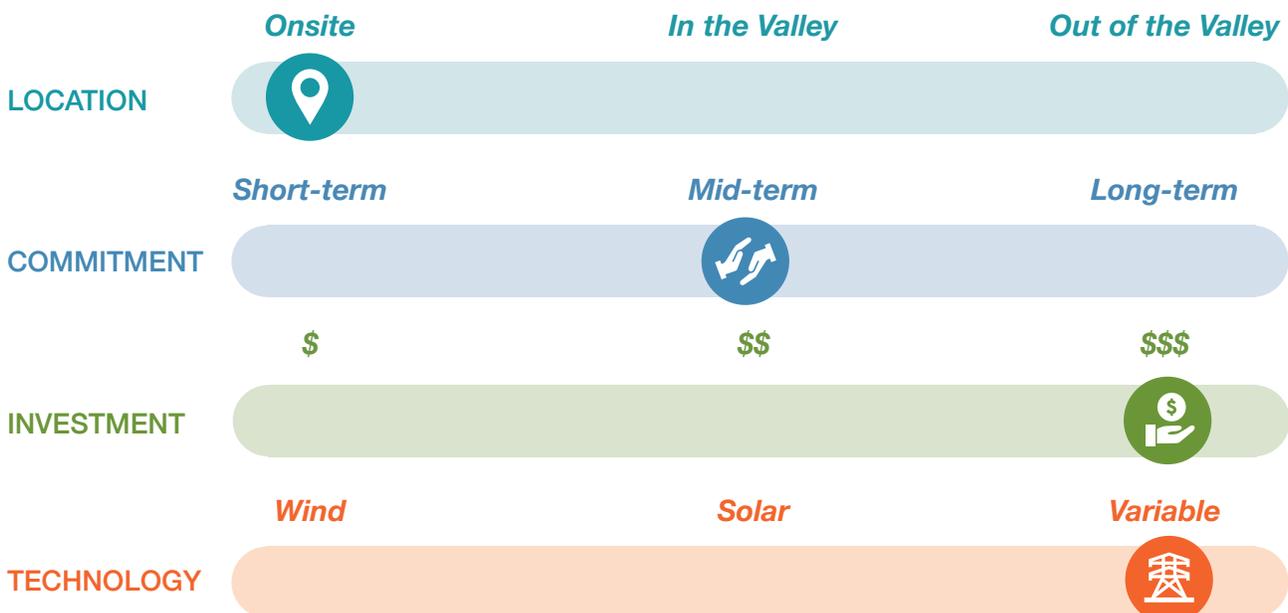
DISPERSED POWER PRODUCTION

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

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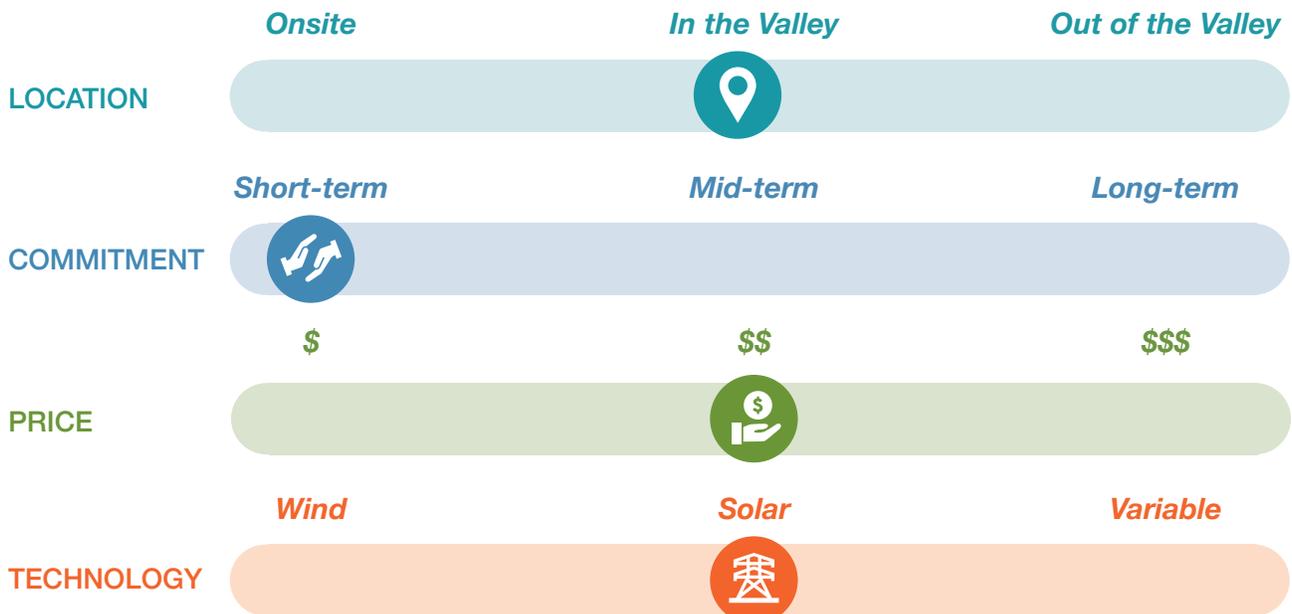
GREEN SWITCH

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).

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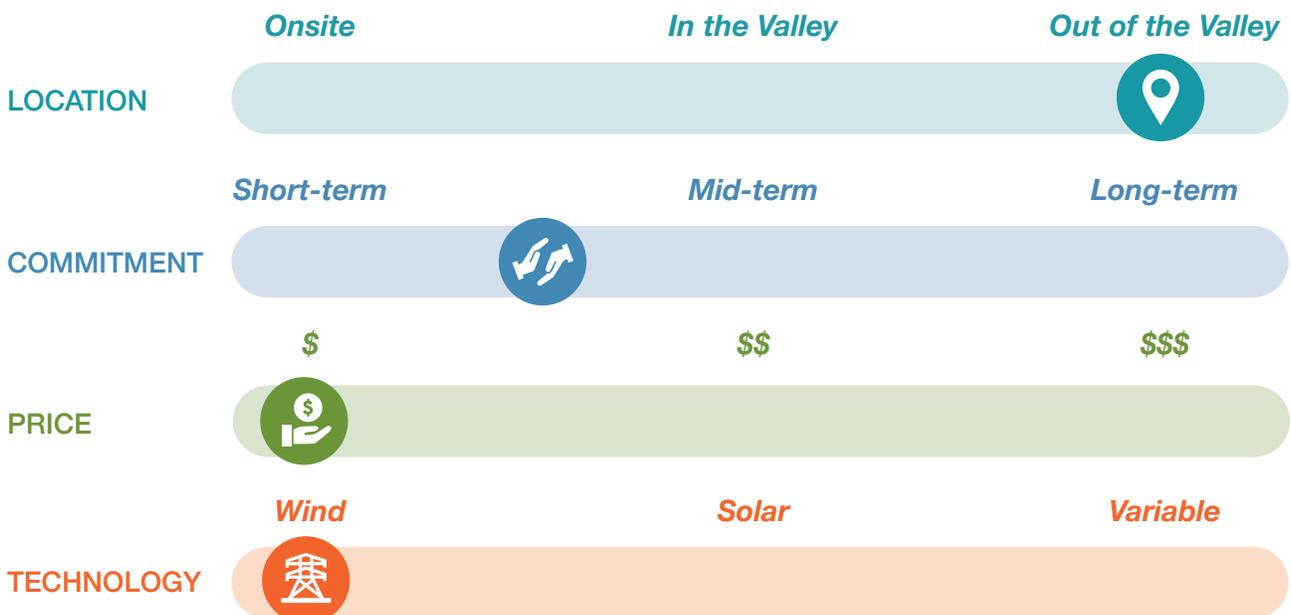
GREEN FLEX

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

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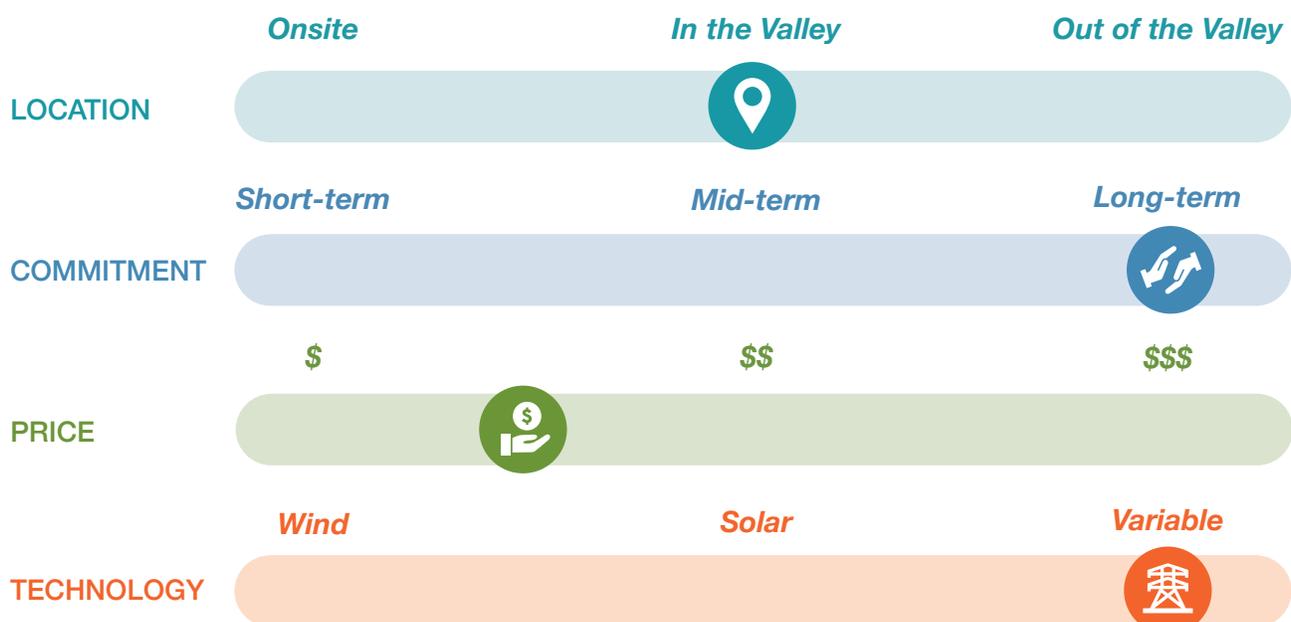
GREEN INVEST

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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Email: renewables@tva.gov

Contact: Your Regional Relations Representative

Visit: www.TVAgreen.com

