Conservation Voltage Reduction

Silver Spring’s next-gen Conservation Voltage Reduction (CVR) solution delivers up to **twice** the energy savings.

**For customers with Silver Spring AMI:**

**Scope**
- CVR pilot for 1 circuit >25 kV or 2 circuits <25 kV (up to 4000 customers)

**Hardware and Software**
- UtilityIQ Voltage Optimizer

**Services**
- Voltage assessment
- DMS integration
- Measurement and verification

**Duration**
- Up to 15 months, with up to 12 months of CVR operation
  - At 3 months: Go live
  - At 5-6 months: Start showing CVR results
  - At 9 months: Show verified CVR results

**For customers without Silver Spring AMI:**

**Scope**
- CVR + AMI pilot for 1 circuit >25 kV or 2 circuits <25 kV (up to 4000 customers)

**Hardware and Software**
- ~4000 meters with Silver Spring communications and Silver Spring network infrastructure
- UtilityIQ modules
  - Voltage Optimizer
  - Advanced Metering Manager
  - Meter Program Configurator
  - Firmware Upgrader
  - Network Element Manager

**Services**
- AMI network optimization
- Voltage assessment
- DMS integration
- Measurement and verification

**Duration**
- Up to 18 months, with up to 12 months of CVR operation
  - At 6 months: Go live, including AMI installation
  - At 8-9 months: Start showing CVR results
  - At 12 months: Show verified CVR results

**Double your Energy Savings**

Today’s approaches to voltage optimization/conservation voltage reduction (CVR) do not benefit from premise-level voltage readings. Consequently, they force a tradeoff between energy savings and compliance. They also cost more, either from building and maintaining expensive models or buying DA-based voltage sensors such as transformer meters. Despite these higher costs, these approaches to CVR force the tradeoff between energy efficiency and compliance.

UtilityIQ® Voltage Optimizer maximizes energy savings while retaining compliance. Built for the Silver Spring platform, a UtilityIQ Voltage Optimizer deployment can go live in just a few months and start delivering significant energy efficiency gains immediately. After the first sixty days in production, utilities can start measuring the energy savings using EPRI-validated measurement and validation (M&V).

**Highlights of UtilityIQ Voltage Optimizer**

The UtilityIQ Voltage Optimizer solution combines the Silver Spring Communications Module in meters, UtilityIQ Advanced Metering Manager, UtilityIQ Power Monitor, and Dominion EDGE CVR software to boost energy savings. The solution combines polling with real-time alerts to make voltage-adjustment decisions based on the most effective information.

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**About Silver Spring Networks**

Silver Spring Networks is a leading networking platform and solutions provider for smart energy networks. With its pioneering IPv6 platform, Silver Spring has networked over 12 million homes and businesses throughout the world with the goal of achieving greater energy efficiency for the planet. Silver Spring’s innovative products enable utilities to gain efficiencies, integrate renewable energy sources and empower customers to monitor and manage energy consumption. Silver Spring Networks is used by major utilities around the globe including Baltimore Gas & Electric, CitiPower & Powercor, Commonwealth Edison, Florida Power & Light, Jemena Electricity Networks Limited, Pacific Gas & Electric and Pepco Holdings, Inc. among others. For more information please visit [www.silverspringnet.com](http://www.silverspringnet.com).
UtilityIQ Voltage Optimizer

» Plans, manages, and measures distribution circuit energy efficiency
» Enables intelligent control of distribution circuit customer voltages with AMI technology
» Integrates with DMS and circuit planning software to enable practical precision CVR
» Adapts to circuit topology changes and does not require a detailed circuit model
» Requires no new equipment or changes in consumer behavior

Speed your Time to Value with CVR

The Silver Spring Speed-to-Value offer for CVR is designed to help you understand the potential of next-gen CVR in your smart grid. You can use this pilot to build out your business case, including proving out the ‘CVR factor’ and CVR savings, testing and understanding the CVR technology and where it can be applied, and assess related costs.

Following the CVR trial, we will help you understand the impact CVR would have at full deployment and help you develop your business case.