kiwi power

Leverage an Abundance of Flexibility Monetization Programs in PJM

Kiwi Core's distributed energy software platform upgrades the revenue generating capabilities of suppliers, curtailment service providers, aggregators and local distribution utilities in PJM.

Drive More Revenue from Distributed Energy Resources

The Kiwi Core software as a service platform combines real-time wholesale market price visualization with a simple, single interface with which you can:

- Offer, schedule, and dispatch power from DERs or reduce power from loads when prices are high, not just on DR signaled events.

- Execute dispatches for single DERs or for a portfolio as a whole through your trading platform, delivering flexibility of demand at the right time and at the right price

- Create physical supply hedges with flexible assets – whether you own them or not – dispatched by the Kiwi Core platform against your settlement position

- Prioritize the best DERs to leverage for each event, creating a merit-based dispatch order

- Bring more assets into frequency regulation markets discreetly

PJM coordinates the movement of wholesale electricity across the largest region of any independent system operator in the U.S.:

Peak Summer Load 2019: 151,558 MW

Annual Energy Delivery 2019: 823,000 GWh

Total Population Served: 65 million people

States: Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia and the District of Columbia.

Define Your Own Success with a Wealth of Functionality

Kiwi Core's enhanced features put you in the driver's seat:

- Data visualization and tracking of real-time and historic market prices mapped to loads
- Automatic price participation signals, defined by you
- DERs availability based on price levels
- Dynamic compensation across a portfolio
- Integration with a wide-ranging portfolio of DERs with the Kiwi Fruit device

Participate with Confidence

Get Kiwi Core and participate confidently in PJM's dynamic market now:

- Economic Demand Response (EDR)
- Legacy Demand Response (DR)
- Peak Load Management
    - 5 Coincident Peaks Program
- Ancillary Services
    - Frequency Regulation
    - Synchronous Reserves
- Capacity Performance

Let's talk about maximizing your revenues from distributed energy.

Are you ready to participate in PJM's dynamic market? Kiwi Power is here to help.

Contact info@kiwipowered.com | For more information, visit kiwipowered.com

Kiwi Fruit

Our proprietary, low-cost, modular hardware sends your energy data to the Kiwi Core platform.

- **Cost effective solution -** designed to reduce total cost of ownership
- **Flexible -** will deploy only the functionality needed
- **Easy to Install -** pre-configured modules minimize install time on site.

Features

- Highly integrated Internet-of-Things node developed around the revolutionary Electric Imp platform
- Dual-band WiFi
- Cloud and local Ethernet ports
- Secure, failsafe OTA application and OS updates
- Flexible interfacing options including GPIO, RS232, RS485, Modbus/TCP and relay terminals
- Clear front-panel status and diagnostic indicator
- Easy to install DIN-rail compatible form factor
- Pluggable terminal blocks for ease of wiring
- Expansion Segments connect via convenient DIN-rail bus
- Integrated with Kiwi's cloud-based time-series datastore, for highly scalable real-time data capture
- Managed, tamper-proof configuration
- Combined digital status and pulse-counting input

Standards Compatibility	Performance	Security
• Ethernet (Local)	• Parameter	• Wifi standards
• RS485 RS232	• Value	• WPA, WPA2, WPS
• Ethernet (Cloud)	• Local data storage capacity without cloud access	• Cloud data link encryption
• Door closure input	• Up to 1 year (configuration-dependent, average)	• TLS1.2-RSA-ECDHE (forward secrecy) Elliptic curve challenge-response
• Pulse inputs	• Centralized dispatch latency	• Managed silicon-to-cloud security stack
• DIN bus Power & data	• <1,000ms (communication-dependent)	• impSecure ™
• 12-24v supply	• Local frequency dispatch latency	
• DIN-EN 60715 TH 35 mounting approval	• <100ms	
• 802.11 a/b/g/n WiFi		
• Modbus/TCP and Modbus/RTU support		

Let's talk about maximizing your revenues by leveraging flexibility from load and DERs
Are you ready to participate in ERCOT's dynamic market? Kiwi Power is here to help.

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