kiwi power

Maximize Your Revenues in ERCOT with Flexible Resources for Energy Arbitrage & Demand Response

> **Kiwi Core VPP software platform upgrades the revenue generating capabilities of suppliers, aggregators, scheduling entities and local distribution network operators by leveraging ERCOT wholesale energy market flexibility on top of Demand Response (DR) programs**

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

The revenue generation potential of energy arbitrage is huge.

In 2019, the average real-time price in ERCOT was $38.00/MWh, while the real-time price on two peak demand days reached $9,000/MWh.

> **ERCOT enabled a hybrid, market-driven system that encourages all participants to bring their best product and their best prices to the market.** //

-Jeff Clark, CEO of the Advanced Power Alliance

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 the energy arbitrage and demand response markets in ERCOT now

- Join legacy demand response programs such as Emergency Response Programs (ERS10 and ERS 30), Load Resource Programs (LR), and Utility-specific Standard Offer Programs (SOP)

- Leverage forecasts to reduce load against the 4 Coincident Peak (4CP) hourly events

- Be ready for future programs like the ERCOT Contingency Reserve Service (ECRS), coming in 2022

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.

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

- Ethernet (Local)
- RS485 RS232
- Ethernet (Cloud)
- Door closure input
- Pulse inputs
- DIN bus Power & data
- 12-24v supply
- DIN-EN 60715 TH 35 mounting approval
- 802.11 a/b/g/n WiFi
- Modbus/TCP and Modbus/RTU support

Performance

- Parameter
- Value
- Local data storage capacity without cloud access
- Up to 1 year (configuration-dependent, average)
- Centralized dispatch latency
- <1,000ms (communication-dependent)
- Local frequency dispatch latency
- <100ms

Security

- Wifi standards
- WPA, WPA2, WPS
- Cloud data link encryption
- TLS1.2-RSA-ECDHE (forward secrecy) Elliptic curve challenge-response
- Managed silicon-to-cloud security stack
- impSecure ™