



Derapi Data API: Query an entire fleet of DERs with a single integration



Accelerate development of DER data solutions via Derapi's Data API

Data from DER devices are providing the industry with knowledge and insights that can improve operations and power innovative business models. By connecting application developers to DER devices across the spectrum of manufacturers and technologies, Derapi speeds the deployment of data-driven DER applications.



Solution features:

- **Unified Data API** — a single integration providing harmonized access to devices from multiple vendors
- **DER Asset API** — assess DER capabilities, such as nameplate capacity and current state
- **Time-series historical data** — Retrieve historical data in monthly, daily, hourly, and sub-hourly intervals
- **Streamlined device access** — Derapi Authorize simplifies authorization and access to customer DERs
- **Secure & private** — all data exchanges are encrypted using industry-standard methods, and Derapi retains no data after API requests are filled

Our DER Data telemetry solution supports application developers across the DER ecosystem:



DER Finance - the Derapi Data telemetry solution provides a manufacturer-agnostic API solution that allows finance providers to monitor the performance of DER systems to ensure accurate billing and underwriting processing.



Operations & Maintenance - Derapi Data enables service teams to monitor performance through a single data channel, eliminating the need to juggle multiple vendor portals.



Grid modeling & awareness - DER devices can act as sensors on the grid, providing distribution operators with visibility to grid-edge conditions.



Carbon accounting and ESG reporting - Measuring and reporting production and consumption of distributed renewable energy enables accurate reporting of GHG emissions and unlocks opportunities to monetize emissions reductions.



Energy AI/ML - Streamlined access to large amounts of data from DER devices enables the development of accurate models for artificial intelligence and machine learning.









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Derapi's Data APIs provide a common interface for all supported DER vendors. Vendor API endpoints are translated to the Derapi common API to make accessing multi-vendor fleets easy. A sample of DERs and options:

 Battery Storage <ul style="list-style-type: none">• Current charge/discharge rate and state of charge• Time-series historical charge/discharge	 Solar PV <ul style="list-style-type: none">• Current production• Current AC voltage• Time-series historical production
 HVAC <ul style="list-style-type: none">• Current set point and operating state• Historical set points and runtime	 Water Heaters <ul style="list-style-type: none">• Current set point and operating state• Historical set points and runtime
 EV and EVSE <ul style="list-style-type: none">• Current charge rate and state of charge• Time-series historical charge	 Other Devices <ul style="list-style-type: none">• Current status, set points, and other parameters

Derapi accelerates your time to market by providing:

Simplicity: Unlike bespoke integrations done in-house, Derapi's single point of integration

- Gives immediate access to any supported device
- Eliminates maintenance cost & effort
- Frees technical resources to develop value-added features

Security & Reliability: Derapi prioritizes manufacturer-sanctioned APIs and data access methods – providing secure, reliable access

Flexibility & Scale: Subscription-based pricing models allow you to pay only for the manufacturers, devices, and feature sets you need



Book a Free Consultation with a DER Expert

Simplify your data integrations with Derapi. Scan the QR code or go to derapi.com/contact to discover how we can help you speed time to market, reduce costs, and focus resources on your core business.