



dcbel[®]

Energy Ecosystem & Product Guide

January 2026

Energy without compromise



Personal power made for you

Adapts to your habits and rhythm, orchestrating home and network energy to quietly support everyday life.



Built-in intelligence shaping decisions

Anticipates what's ahead, dispatching energy at the right moment to keep your days running smoothly.



Premium support with a human touch

Connects you with your own Energy Concierge who understands your home and provides personal guidance.



Peace of mind all the time

Maintains reliable power and continuously monitors your system to keep your home protected.



Smart trading without the effort

Unlocks flexibility by buying, storing, and selling energy for you so your savings and earnings grow over time.



Local privacy clearly yours

Protects your data at home with consent that remains simple, transparent, and fully yours.

Life-Critical Safety & Protection

- Automatic home islanding
- Instant backup switchover
- Solar, battery, V2H blackout power
- Grid-safe export
- Panel-level optimization
- Solar rapid shutdown
- High-power electrical protection
- Real-time circuit monitoring
- UL/CSA-certified inverter & charger
- Adaptive electrical fault protection
- Surge and thermal safeguards



Intelligence, Automation, & Forecasting

- AI energy management
- Buy-store-sell optimization
- Solar/load consumption forecasting
- Hyperlocal weather forecasting
- Behind-the-meter device orchestration
- Solar, battery, EV & grid coordination
- Charge/store/use logic
- Habit-based energy modeling
- Independence & net-zero tracking



Personalized Profile & Experience

- Remote monitoring & control
- Seamless integrated display
- Real-time energy flow visualization
- Custom energy modes
- Smart energy settings
- Load scheduling & peak reduction
- User-specified system preferences
- User-defined system notifications
- Visual instructions, guidelines & alerts
- Color-coded status indicators
- Co-branded marketing content



Live Monitoring Reliability & Performance

- 24/7 performance watch
- Control-center monitoring
- Remote device configuration
- Network aggregated alarms
- Predictive diagnostics
- Remote configuration & resolution
- Self-healing behaviors
- Scheduled & on-demand updates
- High-efficiency conversion
- Local processing for time-sensitive data
- Low-power stand-by mode
- DC-first energy flow



Ecosystem Connectivity & Integration

- Bidirectional EV power readiness
- Universal EV charging support
- Solar panel agnostic compatibility
- Direct solar-to-EV charging
- Certified grid interoperability
- Energy program integration
- Energy assets technical aggregation
- Vertically integrated home energy device
- Historical energy data
- Utility rate data capture
- Purpose-built device link

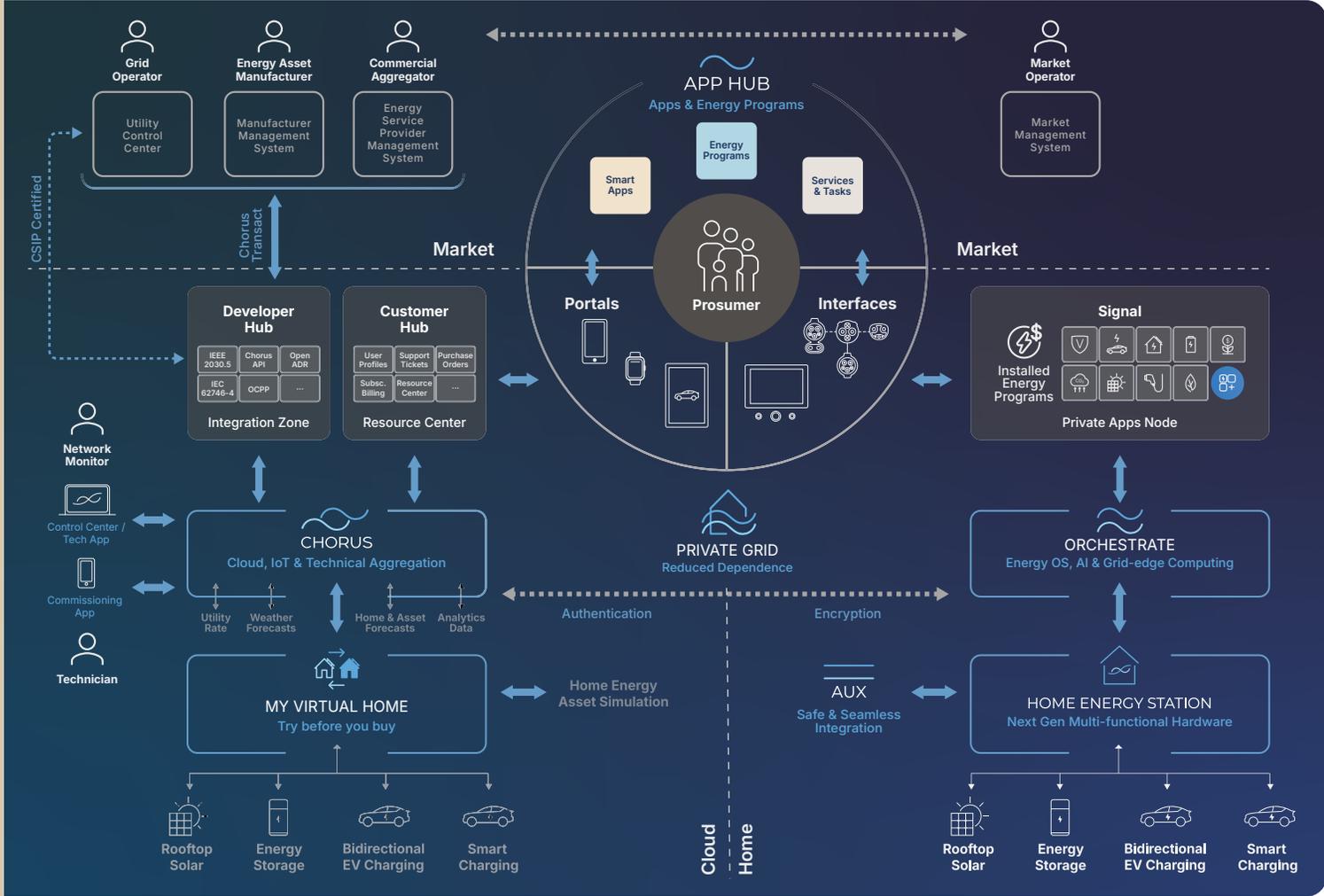


Data Security & Privacy

- Military-grade hardware encryption
- Encrypted cloud communications
- Signed and secure firmware updates
- Two-factor authentication
- Role-based service access
- Secure wired connectivity
- Transparent privacy controls
- Service mode for commissioning



Prosumer Connections



Smart Apps

Personalized Experiences

Features you see and use, fit your home and how you live.

Smart Energy

- Content Delivery
- Smart Home
- Entertainment
- Weather
- News
- Shopping
- Social
- Photos & Videos
- Music
- Education
- ...



Energy Programs

Energy Market Participation

Programs that help your home work with the grid.

Smart Charging

VPP

Grid Balancing

Demand Response

Congestion Management

V2G Services

Feed-in Tariffs

Net Metering

Transactive Energy

Frequency Regulation

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Services & Tasks

Service Enablement

Smart systems working quietly in the background.

Utility rates model

Micro weather data

Forecasts

Real-time pricing

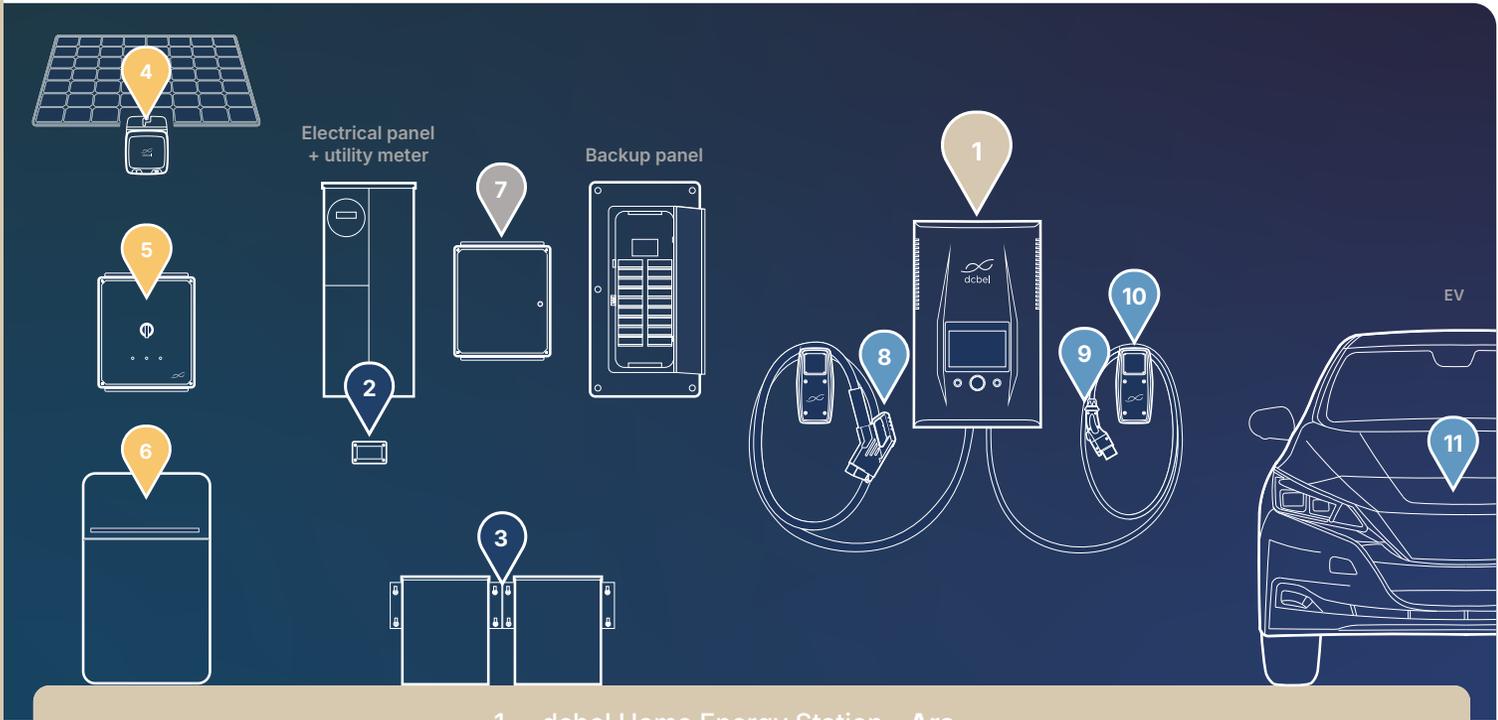
Dynamic energy use

Carbon intensity mix

Grid balancing signals

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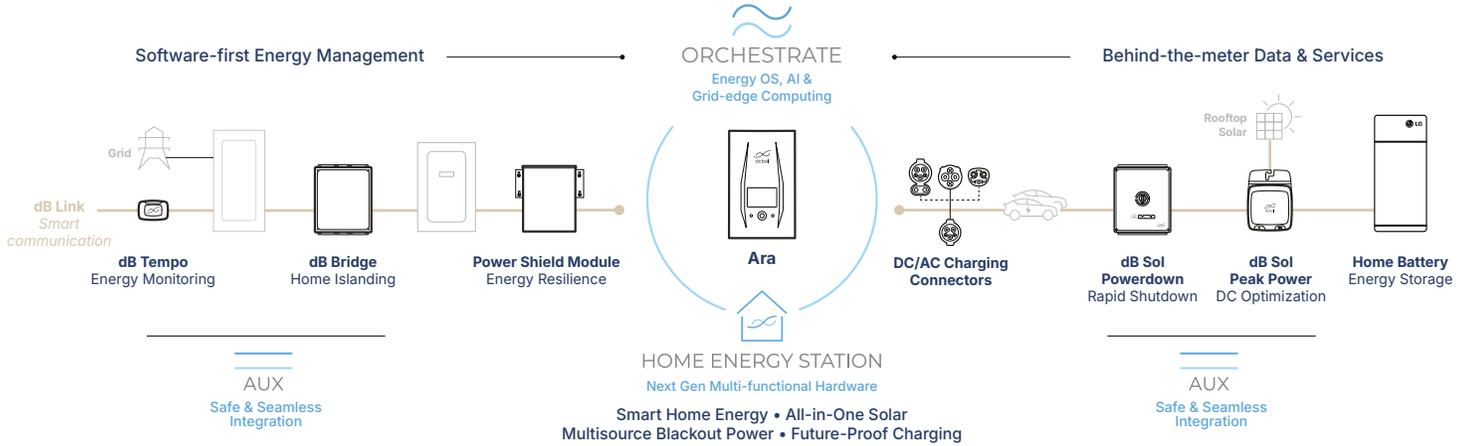
1. dcbel Home Energy Station - Ara

Home Energy Management	Solar & Storage +	Blackout Power +	Bidirectional / EV Charging
2. dB Tempo 3. Power Shield Modules Electrical panel + utility meter	4. dB Sol - Peak Power 5. dB Sol - Powerdown 6. Home battery	7. dB Bridge Backup panel Home battery EV battery	8. DC CCS1/CHAdEMO/NACS 9. AC J1772 Type 1 10. Cable holders 11. Bidirectional EV



Residential Energy Marketplace

Universal Home Energy System



Universal Vertically integrated Certified to UL standards

Reduced Dependence

Premium & Personalized Service
Energy Flexibility • Security & Privacy

135
PATENTS
granted or pending

across **25** patent families
in **50** countries

Platforms

- **Chorus Customer Hub**
Centralized resource center for customers to manage profiles, billing, orders, support, and content.
- **Chorus Developer Hub**
Single point of access for developers providing a standard Integration layer to external systems.
- **Smart Home Energy**
Mobile portal providing a single point of operation to access and manage energy controls.
- **Chorus Transact**
Energy assets services that help Flexibility Service Providers scale and maximize energy program revenue.
- **Orchestrate OS**
Smart OS managing connected energy assets with secure grid-edge computing.
- **App Hub**
Marketplace for energy and smart home apps to personalize your experience.

Modules

- **Digital Twin**
Cloud-based tools for developers to simulate the impact of home energy systems in real world conditions.
- **Signal**
Lightweight container Private App Node for fast, secure execution of calculations.
- **Chorus**
Command-line interface to control real or simulated Home Energy Stations.

Consoles

- **Chorus Control Center**
Cloud interface for dcbel support teams to manage Home Energy Stations.
- **Commissioning App**
Mobile interface enabling Smart Home Integration Partners (SHIPs) to manage Home Energy Stations.
- **Tech App**
Desktop interface for field engineers to monitor, diagnose, and configure Home Energy Stations.

Apps

- **dB Tune**
To adjust home power use based on energy rates and preferences.
- **dB Virtuoso**
Plans home energy use around your goals, lifestyle, weather, and energy prices.
- **Energy saving**
View your total and time-based savings.
- **EV**
Monitor your EV's charging and discharging sessions.
- **Solar**
Check your local solar production.
- **CO2 savings**
Track your carbon-footprint savings.
- **Net Zero**
Follow your home energy independence.
- **Battery level**
Plan with your backup power duration.
- **Home consumption**
See how much energy your home uses.

Stations

Ara

Unified home energy system with EV charging, solar, battery, and smart home control.

Devices

dB Sol Peak Power

Panel-level DC optimizer with real-time monitoring and rapid shutdown for safer, better solar.

dB Sol Powerdown

Smart combiner/comm box that connects multiple PV strings and initiates rapid panel shutdown.

Solution

Private Grid

Self-sufficient home energy that remains outage-ready and keeps your information private.

dB Tempo

Compact monitor with sensors to measure power, voltage, current, and temperature at the main panel.

dB Bridge

Smart islanding switch that detects outages, isolates the home, and enables multi-source backup power.

Power Shield Module

Protective device safeguarding users and home energy equipment during outages and reconnection events.

Modules

dB Multi-level Inverter

Bidirectional power converter that optimizes AC and DC flow using advanced multi-level switching.

dB Orchestrate

Central compute module running Orchestrate™ OS, issuing real-time power dispatch commands.

dB Maestro

Interface controller that routes and executes commands between energy sources and home loads.