ENERGY

# PowerBrain

Multi-timeslot grid/renewable/storage/reserve/thermal/priority scheduling with cost/carbon fields when customer-supplied.

IP-4894 · Commercial software · CLI / SDK / API

## Function and architecture

- Datacenter Energy Orchestrator
- Independent installation
- CLI, Python SDK and server surfaces
- Tenant, entitlement and evidence controls

## Integration summary

PowerBrain: Multi-timeslot grid/renewable/storage/reserve/thermal/priority scheduling with cost/carbon fields when customer-supplied. Delivered as CLI / SDK / API. Integrate the selected version at its documented input/output boundary; retain source and configuration identity with each result. The exact callable API, dependencies and runtime environment are supplied with the controlled release; this public description is not a substitute for that release contract.

## Technical record

| | |
|---|---|
| **Canonical identity** | IP-4894 |
| **Responsibility** | Multi-timeslot grid/renewable/storage/reserve/thermal/priority scheduling with cost/carbon fields when customer-supplied. |
| **Delivery boundary** | CLI / SDK / API |
| **Evidence scope** | Commercial software |
| **Engineering boundary** | Multi-timeslot grid/renewable/storage/reserve/thermal/priority scheduling with cost/carbon fields when customer-supplied. |
| **Deployment** | CLI / SDK / API; 1.2.0 |
| **Operational scope** | Customer-specific performance, economics and physical effects require customer data and validation. Optional PostgreSQL live integration was not executed in the recorded release. |

## Delivery and release binding

- Versioned package and dependency lock
- Deployment environment and access controls

- Input/output schemas and integration examples
- Evaluation scope, support and update policy

Confirm for the selected release: Environment and dependencies, Version / build hash, API compatibility, License and support scope.

## Evidence and qualification

Our records show product-specific tests within the 280-test commercial suite, 20,000 randomized cases and HTTP/ASGI/import/install campaigns. Source-bound external exercises are documented.

Customer-specific performance, economics and physical effects require customer data and validation. Optional PostgreSQL live integration was not executed in the recorded release.

Canonical status: P2 EXECUTABLE COMMERCIAL SOFTWARE / TEST SUITE + ADVANCED CAMPAIGN + HTTP/ASGI/IMPORT/INSTALL EVIDENCE; External production request rows + synthetic energy environment: modeled storage-aware schedule served more modeled demand under identical constraints.

## Evaluation and licensing

Evaluation: Evaluate the named software release. Production: Team or enterprise deployment. Custom work: Workflow and API integration. Rights, pricing, support and acceptance criteria are agreed for the exact scope.

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