



LANGLEY

THE POWER BEHIND AI. GRID-FREE POWER. ALWAYS ON.

June 2026





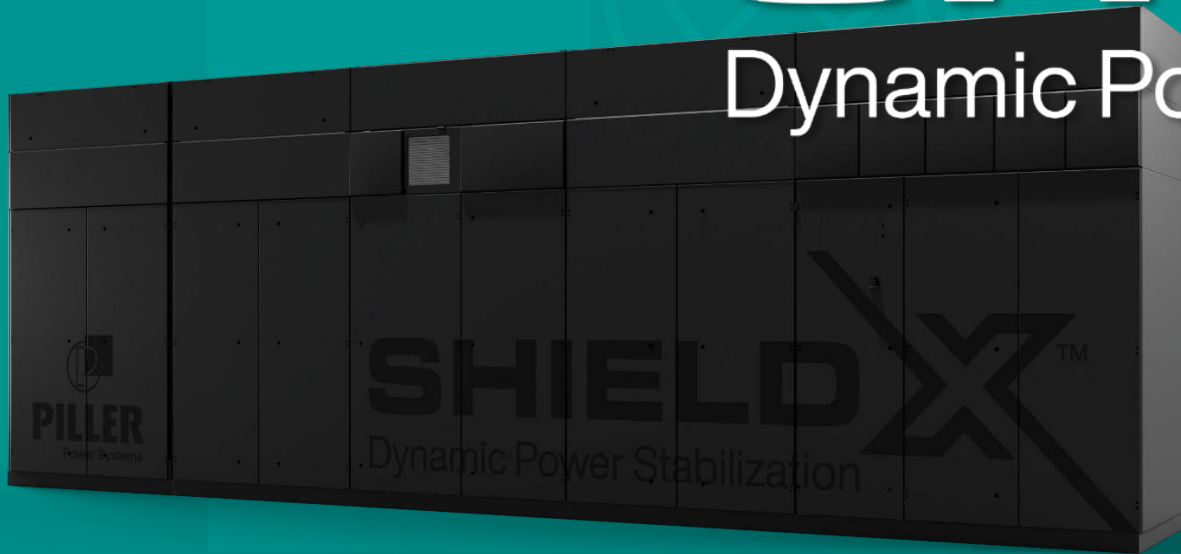
LANGLEY
POWER SOLUTIONS

A Division of Langley Holdings plc

We have the Power

SHIELD X™

Dynamic Power Stabilization



We have the power.

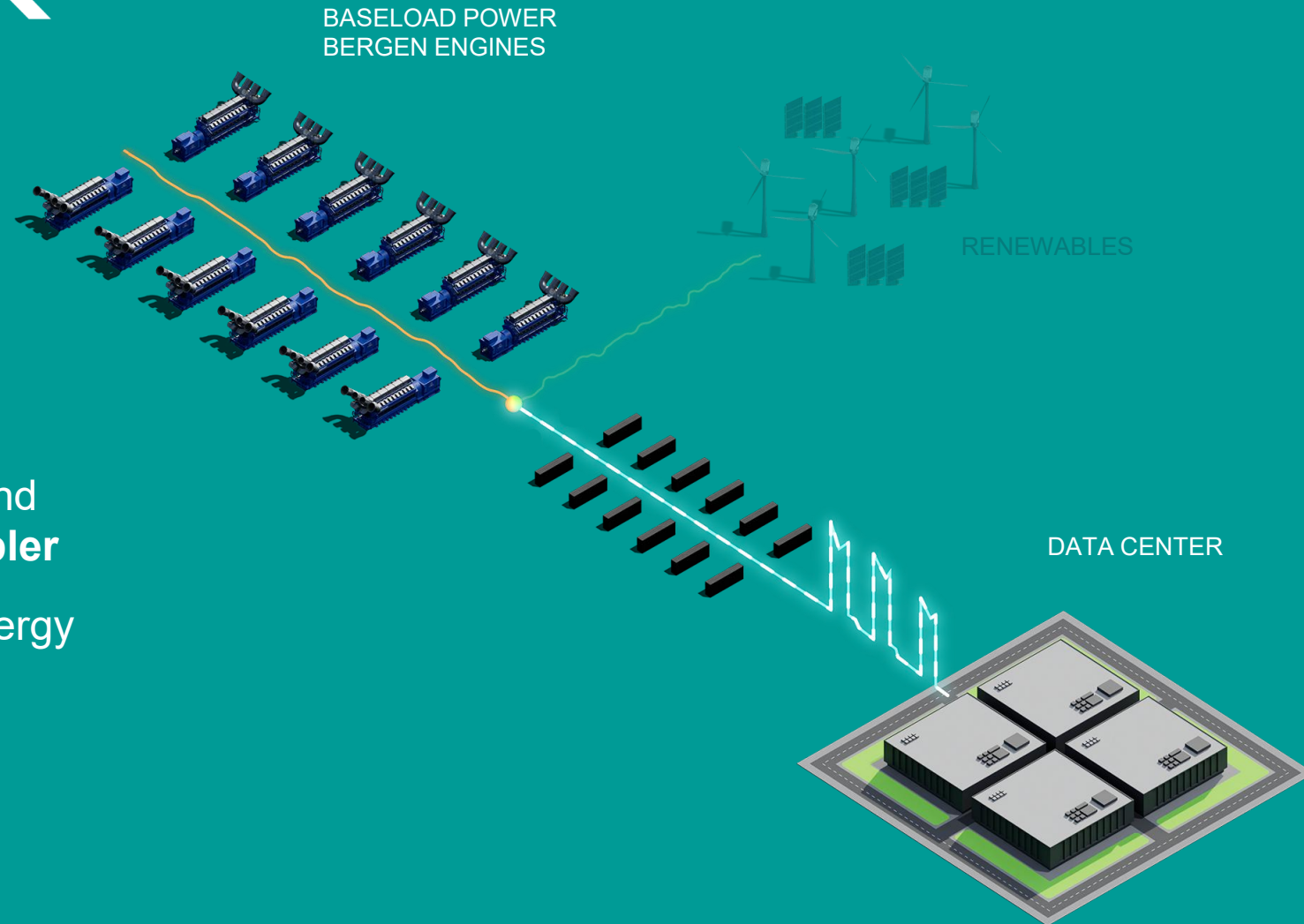
SHIELDX™

Dynamic Power Stabilization



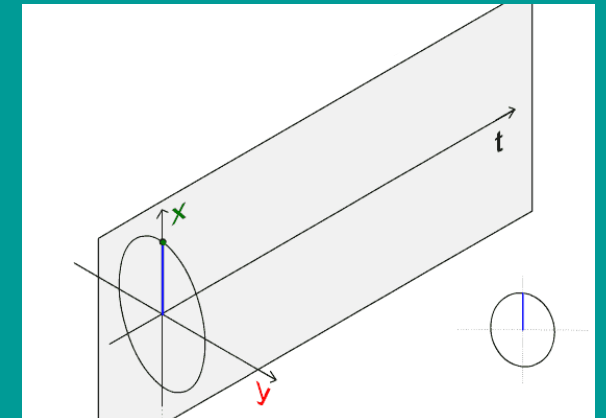
How It Works

- Island Operation
- Protects gensets from transients
- Maintains frequency stability
- Tier III/IV Concurrent Maintainability and fault tolerance, **99.999% uptime Enabler**
- Battery-free without degradation of energy storage capacity



SHIELDX™

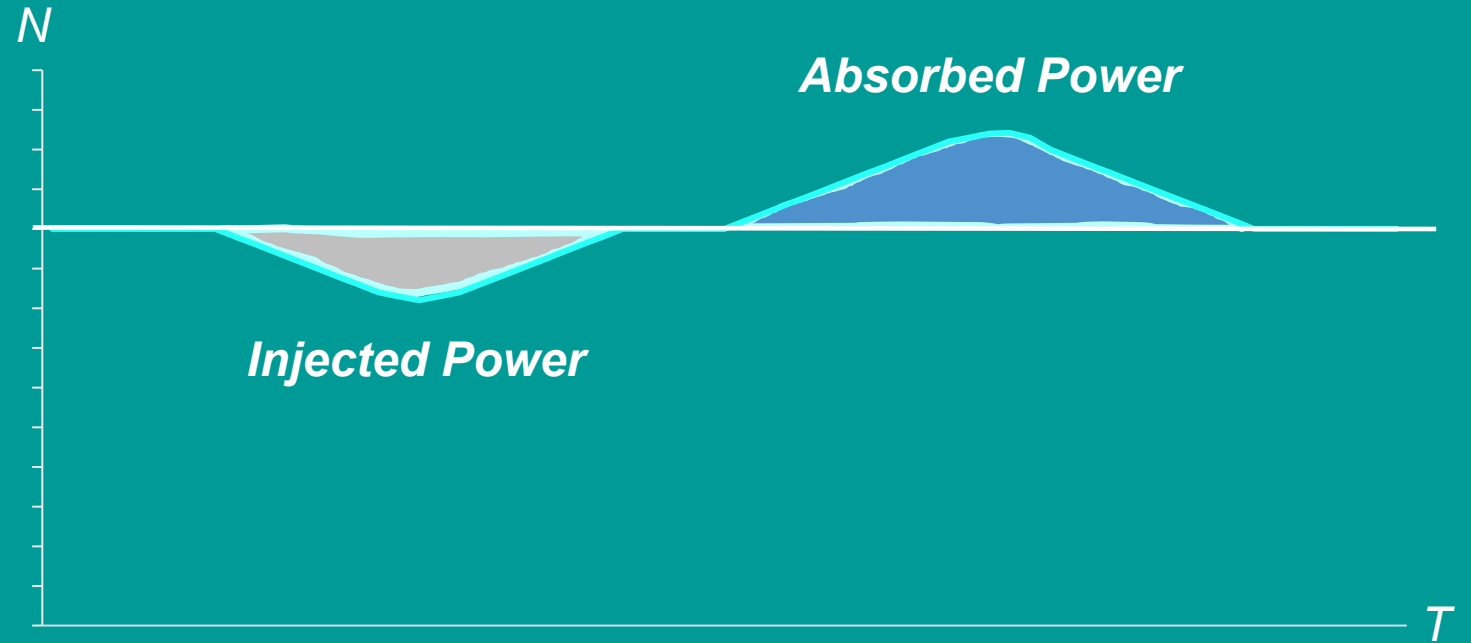
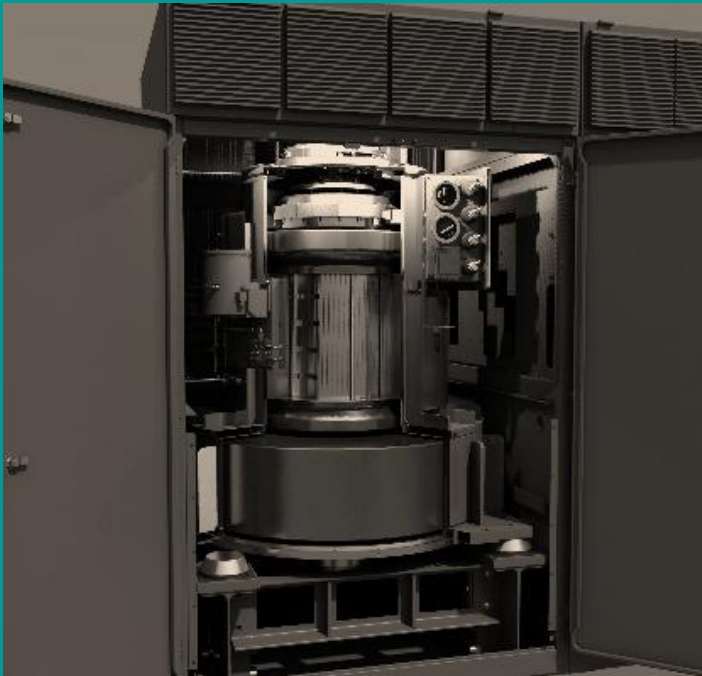
Dynamic Power Stabilization



Open view of 2 x PB21 Kinetic Energy Storage and Uniblock MG

SHIELD^{XX}TM

Dynamic Power Stabilization



- Active Frequency Regulation
- Enhances generation unit/system transient response and load following performance

SHIELDTMX

Dynamic Power Stabilization

- **Absorbs Spikes Instantly**
Natural inertia + kinetic storage smooths load changes.
- **Ensures Uptime**
Maintains frequency within strict data center tolerances.
- **Right-sizes the Plant**
Fewer engines, lower capex, less fuel & emissions.

ADDITIONAL BENEFITS

- **Grid-forming Capability**
Operates fully in island mode.
- **Seamless Integration**
Compatible with any power generation unit/system.
- **Modular & Scalable**
Proven platform adaptable from 100MW to 1GW+.
- **Battery-free design**
No degradation, always-known state of charge.

Power Generation Assets

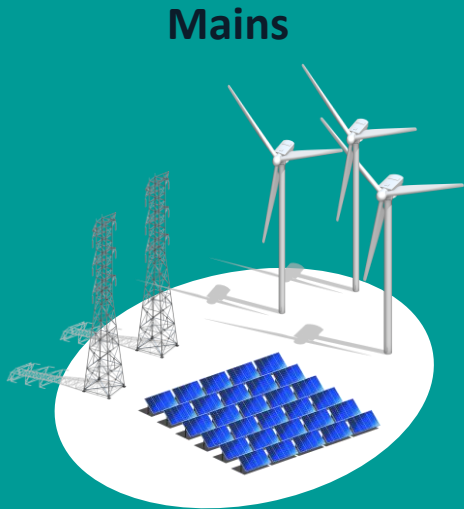
Grid Tied: Piller UBV UPS with Decoupling Choke Example



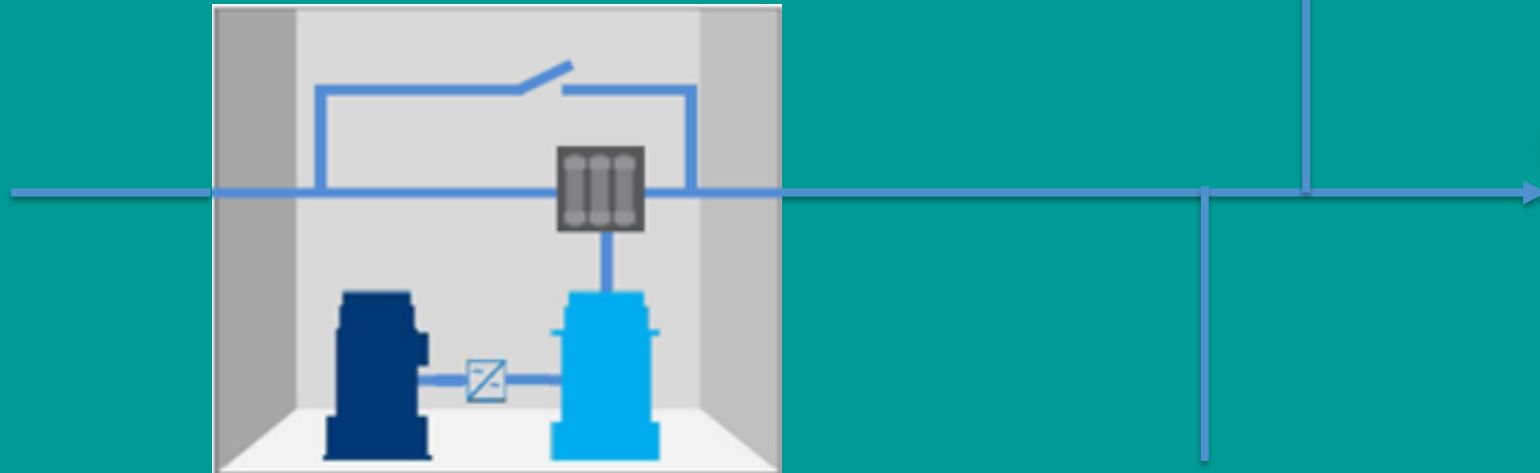
Energy Transfer



UNIBLOCK™ UBT+



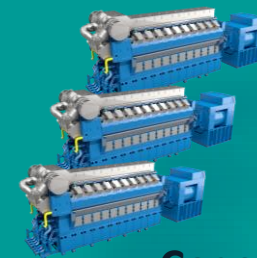
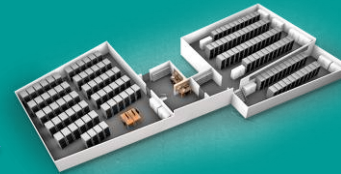
Mains



PV



LOAD



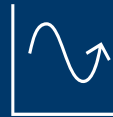
Cogeneration



SOURCE SYNCHRONISATION

Grid-forming

Se proporciona un punto de referencia estable para la frecuencia y la fase para los inversores asíncronos que se encuentran en fuentes solares y eólicas y para otras fuentes síncronas menos estables (por ejemplo, motores de gas)



FREQUENCY STABILIZATION

Un 'suministrador y consumidor' regulado de energía activa, capaz de compensar cambios rápidos en el equilibrio entre oferta y demanda que de otro modo provocarían cambios en la frecuencia de la microrred.

Inertia Contributor



VOLTAGE STABILIZATION

Hace una compensación para los cambios dinámicos en la demanda de potencia reactiva que de otro modo causarían caídas y sobretensiones en la microrred.



FAULT CURRENT LEVELS

Hace una contribución de potencia reactiva adicional, para proporcionar suficiente corriente de fallo y así las protecciones del sistema puedan operar de forma rápida y fiable.

Thank You

Langley Holdings

One group, three leaders, **one solution.**

Always On.

