EXOGRID™ ENERGY-HARVESTING EXOSUIT – SPEC SHEET

OVERVIEW

ExoGrid™ is an industrial-grade exosuit that converts kinetic and thermal energy from human movement into electrical power. Designed for manufacturing, logistics, and field operations, it automatically charges connected devices and feeds surplus energy back into the local grid — eliminating battery logistics while reducing CO_2 emissions.

CORE FEATURES

Generates power through kinetic, thermal, and piezoelectric modules during regular work activity.

Tools, AR-glasses, scanners, and sensors charge automatically when in contact with the suit.

Excess energy can be stored in micro-grids or re-fed into the facility’s local energy system.

Lightweight composite frame and breathable smart-textiles for maximum comfort and flexibility.

Built-in sensors for motion, temperature, and fatigue detection ensure user safety and data insights.

TECHNICAL SPECIFICATIONS

Parameter	Value
Energy Output	up to 75 W continuous (kinetic + thermal)
Wireless Charging	15 W inductive charging
Operating Temp.	-10°C to +45°C

Weight	4.8 kg
Connectivity	Bluetooth LE / NFC
Energy Storage	150 Wh integrated microcell pack
Materials	Carbon fiber exoshell, conductive smart textiles
Maintenance Cycle	Every 12 months
Expected Lifetime	5–7 years (modular components replaceable)

BUSINESS IMPACT

Reduce battery-related downtime by up to 30%

Eliminate battery waste and logistics costs

Cut annual CO_2 footprint by up to 15 tons per facility

Demonstrate measurable ESG & CSRD compliance

Improve safety and worker satisfaction

APPLICATIONS

Industrial assembly & maintenance

Construction and logistics operations

Energy and utilities field service

Smart factories / Industry 5.0 environments

PILOT PROGRAM

Early-stage pilot installations available for 2026. Includes data tracking, ergonomic assessment, and ROI validation.

📩 Request Pilot: partners@exogrid.energy 🌐 More Information: www.exogrid.energy

LEGAL NOTICE