OEM Program Overview

Synerex / XECO Energy OEM Partnerships

Mission

Synerex Laboratories, LLC is dedicated to revolutionizing power quality through innovative Electrical Current Balancing System (ECBS™) technology. We develop, manufacture, and license advanced solutions that improve electrical network stability and efficiency.

Our mission extends to forging strategic partnerships with global power quality companies to accelerate the transformation of the market toward advanced, network-wide solutions for commercial and industrial facilities worldwide. By aligning with manufacturers, utilities, and engineering leaders, we aim to deliver a scalable platform that tackles challenges in power factor correction, harmonic distortion, energy efficiency, and electrical reliability—ultimately enabling the next generation of intelligent power quality networks.

Introduction

The Synerex OEM Program is designed to enable strategic manufacturing and software development partners to integrate and deliver our patented Electrical Current Balancing System (ECBS™) technology into their own products and solutions. The program provides a structured framework for collaboration—covering licensing, manufacturing, co-development, and long-term support—ensuring scalability and innovation in both hardware and software.

Program Objectives

- Expand Market Reach: Empower OEM partners to integrate Synerex/XECO technology into new and existing product lines.
- Accelerate Deployment: Provide turnkey access to designs, firmware, and analytics to reduce time-to-market.
- Ensure Quality & Compliance: Maintain adherence to IEEE-519, ASHRAE, and DOE efficiency standards across global deployments.
- Enable Customization: Deliver flexible hardware and software options tailored to partner and end-user needs.
- Strengthen IP Value: Leverage Synerex's U.S. Patent 12,375,324 B2 and related IP portfolio to ensure defensible product differentiation.

OEM Manufacturing Program

Scope: Hardware licensing, design packages, and manufacturing collaboration.

Design Transfer

• Complete technical documentation (BOMs, schematics, 3D CAD, test procedures).
• Reference builds with baseline test data.

Manufacturing Models

• ODM / White Label: Partner manufactures to Synerex specs, branded under OEM's label.
• Joint Manufacturing: Shared production where Synerex supplies core modules (e.g., power filters, harmonic attenuators).
• Certified Assemblers: Regional facilities licensed to assemble and distribute under quality controls.

Support Services

• Factory training for production teams.
• Quality audits and certification marks.
• Long-term supply chain and component sourcing support.

Custom Software Development Program

Scope: Integration of Synerex's advanced analytics, reporting, and control software into OEM environments.

Core Capabilities

• Synerex Power Analysis™: API access for kVA/kW savings, PF correction, THD reduction modeling.
• OEM SDKs: Modular code packages for data ingestion, visualization, and billing integrations.
• Compliance Toggles: IEEE-519 edition settings, regional tariff templates, and ASHRAE references.

Customization Options

• Branded dashboards and reporting layers.
• Integration with OEM hardware controllers (VFDs, PLCs, switchgear systems).
• SaaS extensions for predictive maintenance, CP event forecasting, and load optimization.

Deployment Support

• Co-development sprints with OEM engineering teams.
• Ongoing API updates, security patches, and feature enhancements.
• Custom integration for ERP, BMS, and utility data exchanges.

Partnership Framework

• Licensing: IP licensing fees and royalties on unit sales.
• Engineering Support: Tiered packages for design, prototyping, and software integration.
• Training & Certification: For partner engineers, sales teams, and service providers.
• Branding Rights: Co-branding with "Powered by Synerex™" logo, with optional white-label programs.

Strategic Benefits for OEMs

• Access to patented technology with defensible market differentiation.
• Reduced time-to-market for advanced power quality products.
• Enhanced recurring revenue via software and analytics SaaS layers.
• Strengthened position in utility, industrial, and data center markets.
• Ability to offer turnkey solutions (hardware + software + compliance).

Next Steps

1. Execute an NDA for technical data exchange.
2. Define scope of work (manufacturing, software, or combined).
3. Establish commercial framework (royalty %, exclusivity, pricing tiers).
4. Initiate pilot build or software integration project.
5. Scale to full deployment and certification under OEM brand.