



# NewEnergy<sup>®</sup>

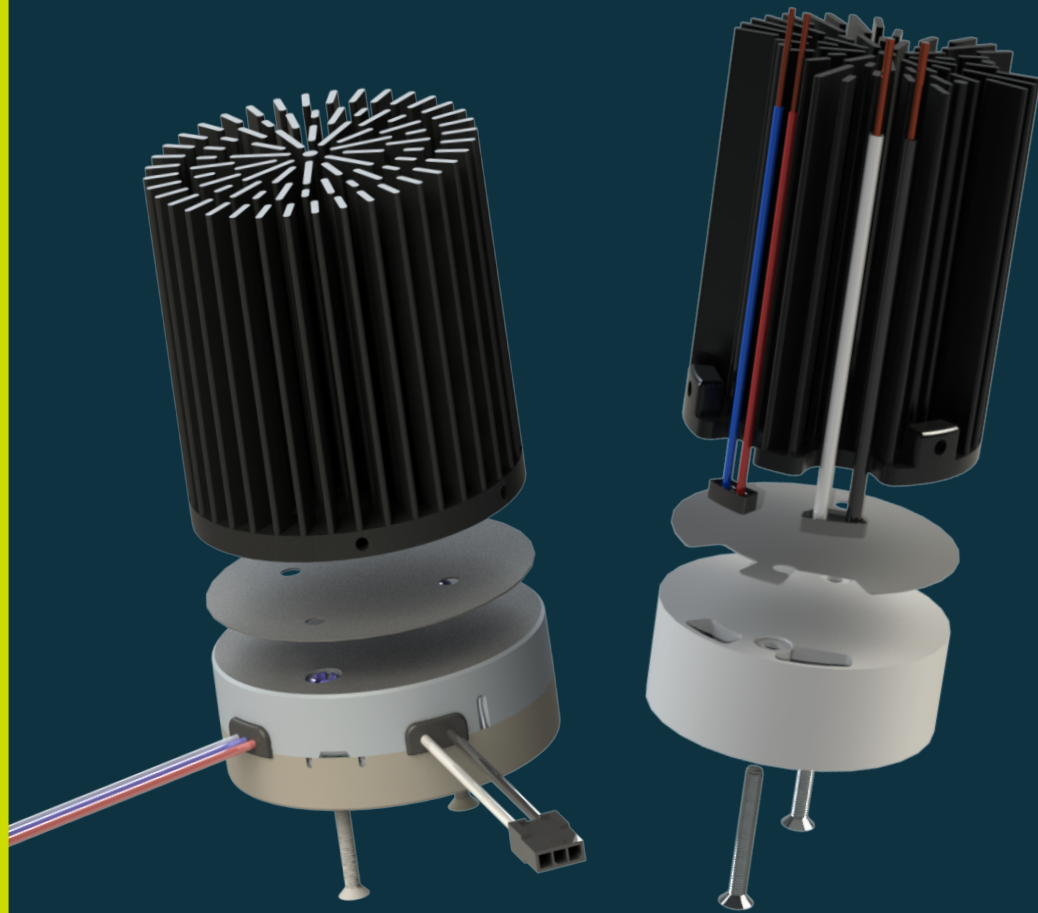
&

## ERP

POWER + LIGHT™

## Mechanical & Thermal Solutions for the ERP Ecosystem

Engineering Thermal Solutions for the  
Future of Integrated Solid-State Lighting



# NewEnergy is...



# NewEnergy®

## A U.S.-Based Engineering & Manufacturing Partner

NewEnergy is a U.S.-based engineering and manufacturing organization specializing in advanced LED integration, thermal management, and turnkey product development.

With decades of experience supporting the lighting industry, NewEnergy provides a full suite of capabilities spanning engineering, design, prototyping, thermal/mechanical optimization, domestic and overseas manufacturing, and integrated supply chain support.

Our team partners with OEMs and ecosystem leaders to accelerate development, reduce complexity, and bring innovative lighting solutions to market faster.

### Engineering & Design

Full mechanical & thermal  
design services

### Rapid Prototyping

In-house R&D lab & custom  
development

### Manufacturing

Domestic & overseas  
production capacity

### Supply Chain

Integrated turnkey supply  
chain support

ISO Certified | North Carolina HQ | 15+ Years Experience

# ERP & NewEnergy Partnership



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## ERP Light Engine Platform

Industry-leading integrated light engine technology

## NewEnergy Partnership

Thermal design, manufacturing & engineering expertise

## OEM Ecosystem

Faster development, reduced complexity, proven solutions

As ERP expanded its integrated light engine platform, NewEnergy was selected as the engineering and manufacturing partner to develop purpose-built thermal accessories.

The result: a collaborative accessory platform engineered to help lighting manufacturers accelerate development, reduce engineering complexity, and confidently integrate ERP technology into their designs.

# Industry Challenges



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While integrated light engines simplify electrical design, OEMs still face critical challenges in luminaire development.

**01**

## Thermal Expertise

Proper heat dissipation requires uniquely curated knowledge of thermal resistance, thermal flow through fin geometry, and alloy material expertise most fixture OEMs lack in-house.

**02**

## Design Complexity

Integrating a light engine into a finished luminaire involves complex mechanical, optical, and electrical considerations that extend development cycles.

**03**

## Reliability Risk

Without properly validated thermal solutions, OEMs risk reduced LED L70, inconsistent performance, and costly field failures.

**04**

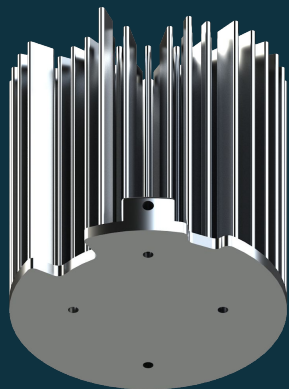
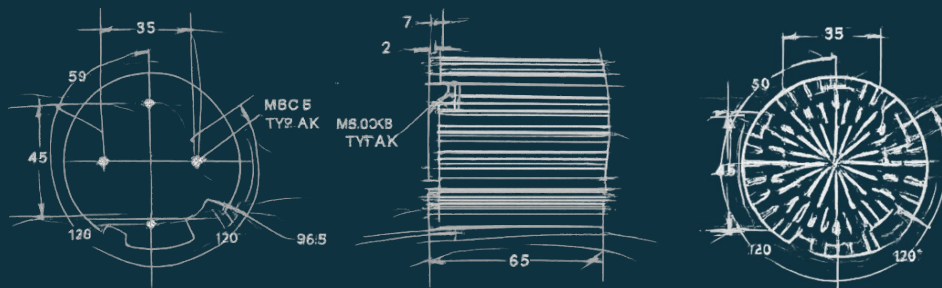
## Time to Market

Starting thermal and mechanical design from scratch adds months to product development and production which ultimately delays revenue generation.

# Our Engineered Solution



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## Purpose-Built Design

Each NewEnergy heat sink is engineered specifically around ERP light engine platforms — not generic “one fits all” solution.

## Optimized Thermal Performance

Aluminum alloy construction with precision fin geometry for maximum heat dissipation and LED protection.

## Simplified OEM Integration

Standardized mounting patterns, thermal pads, and wire clearances reduce luminaire design time.

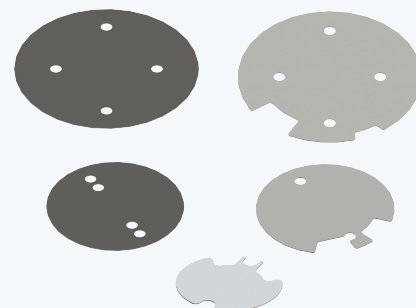
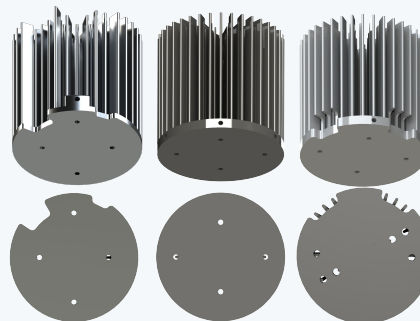
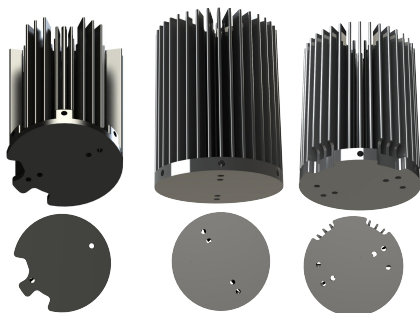
## Proven Reliability

Black anodized finish, minimum 3mm base thickness, M3-0.5 mounting — built to last in commercial applications.

# ERP Thermal Product Portfolio



NewEnergy®



COMING SOON

## 28mm Platform

NEHS-ERP-28-000  
NEHS-ERP-28-001

In development — complementary heat sinks and thermal pads will be available after ERP 28 Series release.

AVAILABLE

## 50mm Platform

NEHS-ERP-50-000  
NEHS-ERP-50-001  
NEHS-ERP-50-002

Supports AWM1, SWC-28, SWM1, SWM2, TWC, TWM1. Rear & Side exit lead configurations.

AVAILABLE

## 65mm Platform

NEHS-ERP-65-000  
NEHS-ERP-65-001  
NEHS-ERP-65-002

Supports all major ERP modules. Widest compatibility. 65mm diameter, black anodized finish.

AVAILABLE

## Thermal Pad Solutions

NETP-ERP-28-000 NETP-ERP-50-002  
NETP-ERP-28-001 NETP-ERP-65-000  
NETP-ERP-50-000 NETP-ERP-65-001  
NETP-ERP-50-001 NETP-ERP-65-002

Engineered thermal interface pads for all platforms. Precision-cut notches align with module mounting holes.

# Integrated Capabilities



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Beyond standardized ERP thermal solutions, NewEnergy offers a fully integrated development and manufacturing platform.

1

## **Thermal / Mechanical Engineering**

Full design services from concept to production-ready specifications.

2

## **Optical Integration**

LED module selection, photometric design, and optical component sourcing.

3

## **Rapid Prototyping**

In-house R&D lab with fast-turn sample capability for design validation.

4

## **Design for Manufacturability**

Engineering review ensures designs are production-ready and cost-efficient.

5

## **Domestic / Overseas Production**

Flexible manufacturing with ISO-certified facilities worldwide.

6

## **Supply Chain Management**

Integrated turnkey support from raw materials to finished goods.

# Collaboration Opportunities



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## Custom Thermal & Mechanical Accessories

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Custom heat sink designs

Mounting configurations mate seamlessly to ERP light modules

Engineered finishes and alloys available for your custom solutions

Unique wire routing solutions

OEM-specific form factors

## OEM Luminaire & Module Development

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Pre safety submission luminaire-level thermal validation

Mechanical integration design and consulting

LED driver selection and optical co-design consultation

Subsystem module development and design

In-house prototype assembly builds with detailed reporting

## Full Product Development

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Full design, production management, packaging and shipping, concept to production

Complete engineering, tooling & product launch

Supply chain establishment and complete management

Quality safety & compliance support

A manufacturing partner, not just another supplier



# Committed to Partnership

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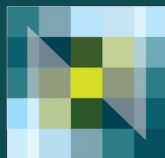
NewEnergy is proud to support ERP and its ecosystem partners through engineered thermal solutions, integrated development capabilities, and collaborative manufacturing support.

Our goal is to be more than a component supplier — we strive to serve as a trusted engineering and manufacturing partner, helping accelerate innovation and simplify the path from concept to market.

Engineering  
Excellence

Collaborative  
Partnership

Proven  
Reliability



# NewEnergy<sup>®</sup>

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## Thank You

*We look forward to partnering with you.*

Email

[info@new-energyllc.com](mailto:info@new-energyllc.com)

Phone

866.919.0609

Website

[New-EnergyLLC.com](http://New-EnergyLLC.com)