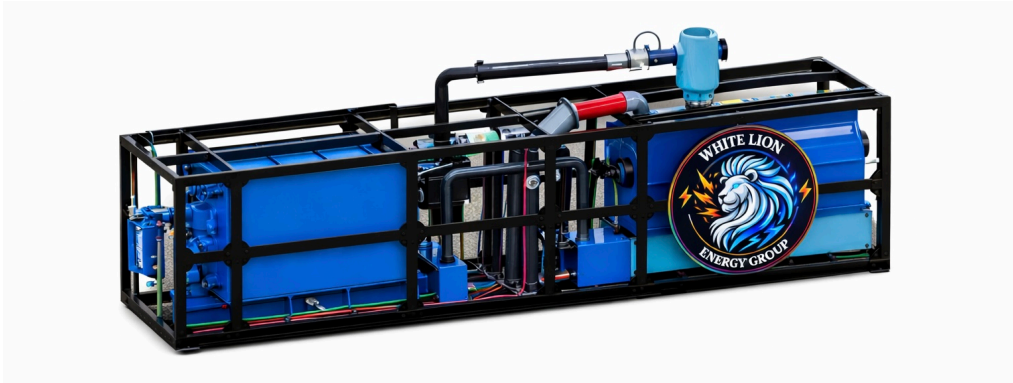


White Lion Energy Group

Cube mounted System

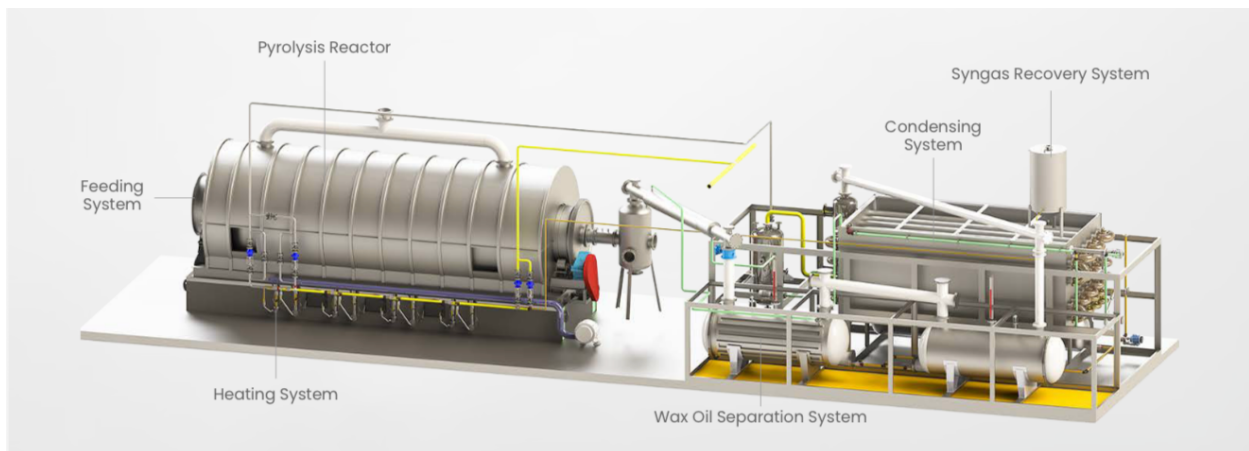
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Overview

As we advance toward the development and deployment of our Thermal Decomposition Pyrolytic Reactor unit (TDPR), we are considering strategically pursuing a Cube-mounted configuration.

This design modification and enhancement directly supports the core objectives of our carbon-negative waste-to-energy initiative, including mobility, deployment efficiency, environmental compliance, and potentially future grant-funded scalability. potential deployment residential and commercial projects, the skid-mounted system represents a technically superior and mission-aligned solution.



Consider the following:

1. Modular Deployment in Environmentally Sensitive Zones

Cube-mounted systems offer minimal ground disturbance and a low-impact installation footprint, which is essential when operating within or adjacent to protected ecosystems, tribal lands, and fire-prone or water-sensitive regions.

- The self-contained base frame eliminates the need for concrete foundations or extensive grading.
- Installation can be performed without excavation, reducing ecological disruption and permitting complexity.
- Enables compliance with CEQA (California Environmental Quality Act) standards for minimal site alteration.

2. Accelerated Field Deployment and Commissioning

The Cube design enables factory assembly, testing, and certification of the TDPR production units before they are transported to the field. This results in:

- Substantial time savings in deployment, which is particularly critical for seasonal or time-sensitive project windows tied to funding cycles.
- Controlled QA/QC conditions prior to field deployment, improving safety and equipment longevity.
- Rapid commissioning on-site, which is ideal for pilot-scale operations and proof-of-concept studies under public sector partnerships.

3. Portability and Redeployment for Multi-Site Programs

Given the potential statewide and tribal interest in scalable solution to biomass waste and carbon sequestration, the Cube-mounted TDPR unit is intentionally designed to be relocatable.

- A single unit can be deployed sequentially across multiple locations, forest service sites, or agricultural districts—enabling shared access and data collection across geographies.
- Enables the creation of a mobile demonstration program with grant reporting deliverables across jurisdictions, increasing transparency and visibility outcomes.
- The ability to redeploy increases asset utilization, improving ROI.

4. Cost Efficiency Through Prefabrication and Transportability

Compared to traditional fixed installations, the Cube-mounted approach reduces both capital and operational expenditures, particularly in remote areas.

- Reduces field labor costs by consolidating construction and integration in a controlled environment.
- Eliminates redundant procurement of civil infrastructure (pads, anchors, secondary containment) at each site.

- The turnkey design allows for standardization, easier replication, and bulk procurement advantages.

5. Enhanced Safety and Regulatory Compliance

Cube-mounted systems can be pre-engineered to comply with relevant fire code, emissions containment, and occupational safety standards, which are essential for publicly scrutinized programs.

- Fire suppression systems, secondary containment, and emergency shut offs can be built-in at the factory level.
- Can be certified to UL, NFPA, AQMD, and CARB standards as a single integrated unit.
- Reduces permitting delays by simplifying the regulatory profile of the on-site equipment.

6. Alignment with California's Climate Resilience and Carbon Sequestration Goals

The ability to rapidly deploy carbon-sequestering TDPR units where biomass waste is concentrated—without major infrastructure buildout—directly supports goals to:

- Reduce wildfire risk via forest biomass removal.
- Prevent methane emissions from agricultural and landfill waste.
- Sequester carbon through stable biochar generation.
- Empower rural communities with clean-tech solutions that do not require grid connectivity or high-voltage infrastructure.

Cube mounting accelerates and decentralizes these benefits across the state in a climate-responsive, community-accessible format.

Conclusion

The Cube-mounted configuration of White Lion Energy's TDPR unit is not simply a convenience; it is a mission-critical design feature that directly enhances our ability to execute community objectives, maximize environmental protection, reduce deployment costs, and facilitate scalable implementation. It embodies the core principles of adaptability, replicability, and impact—making the system not just a technological asset, but a transformative platform for the nation's, carbon-negative future.