

**LOS ANGELES COUNTY METROPOLITAN  
TRANSPORTATION AUTHORITY**

*Los Angeles, California*



**Project Overview**

In June 2012, Vanir Energy completed an investment grade lighting audit at the 652,000 square foot Metro Gateway Headquarters office building for the LA County Metro Transportation Authority. Metro is responsible for the continuous improvement of an efficient and effective transportation system for Los Angeles County. Metro has made a commitment to sustainable business operations with a current LEED gold certification at their HQ building and a goal to achieve LEED platinum.

The investment grade lighting audit encompassed twenty-five office floors, two mechanical levels, four sub-levels, and the exterior building space. The audit process was completed in seven days and included field verification of all building lighting systems comprised of detailed fixture and lamp counts, space dimension measurements, light level readings, controls analysis, and building management system review.

Following the audit, Vanir Energy provided Metro with a comprehensive report that examined best available technology, retrofit potential, energy consumption, and utility bill history. Specific technologies examined were reduced-wattage fluorescent, induction, and LED. Maintenance savings, incentive evaluations, estimated project costs, and life cycle analysis were all included as a part of the report. The potential for a 58% lighting energy reduction and more than \$200,000 in annual energy savings was identified as a result of this process.

Specific advantages provided to Metro as a result of the audit and report include detailed field data and updated floor plans that can be used by engineers and lighting designers for efficient, effective project design, and recommendations on lighting upgrade solutions that conserve energy costs, maximize all available incentives, and reduce carbon footprint. Vanir Construction Management provided project management expertise and coordinated efforts of all parties involved while serving as the point of contact for Metro.



**PROJECT INFORMATION**

**Client:**

Los Angeles County Metropolitan  
Transportation Authority

**Summary:**

- 652,000 sq. ft. audited
- 11,566 fixtures addressed
- Over \$200,000 in annual energy savings identified
- Best available technology comparison
- 25 year life cycle cost analysis

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