It is LAWA's policy to submeter energy usage so as to ensure that the consumption of energy and natural resources is reduced to a practical minimum. LAWA is committed to responsible energy management and will submeter all of its facilities and equipment, wherever it is cost-effective to do so. The policy of LAWA is to measure & track energy consumption in order to meet the following long-term goals, medium range objectives and specific targets.

1.1 Goals (Long-Term):

A. Reduce operating costs through energy efficiency.

B. Optimize energy performance.

C. Minimize environmental impact due to energy consumption.

D. Comply with mayoral directives.

1. Reduce energy consumption by 30% in municipal buildings by 2035.

2. Reduce GHG emissions below the 1990 baseline by 45% in 2025, 60% in 2035 and 80% in 2050.

1.2 Objectives (Medium-Range):

A. Set and publish energy performance & targets.

B. Monitor and evaluate performance levels.

C. Implement an energy monitoring and targeting system.

D. Review and assess energy supply costs and contracts.

E. Establish a budget for supporting energy efficiency improvements.

F. Develop comprehensive building data system

1.3 Targets (Specifics):

A. All New construction, additions, & alterations for Terminals & Buildings shall install measurement devices to monitor:

1. Building level energy usage for Gas, Domestic Water (DW), Chilled-Water (CHW), Heating Hot Water (HHW), & Electrical services;

2. Concessions level energy usage for Gas, Domestic Water (DW), Chilled-Water (CHW), Heating Hot Water (HHW), & Electric. *See also Airport Mechanical, Plumbing, & Electrical Design Standards.*

3. Disaggregated electrical energy according to the following:

a. TABLE 1.0 MINIMUM REQUIREMENTS FOR DISSAGGREGATED ELECTRIC SUBMETERING.

B. Discuss & define project submetering goals, opportunities & constraints with LAWA at the conceptual phase of the project & include, at minimum, in Owner Project Requirements (OPR).

Submetering is an essential component for successful energy management. This policy is an expression of LAWA's commitment to energy consumption responsibility & accountability. Additionally, this document shall serve as a guide in determining energy management practices.

TABLE 1.0 MINIMUM REQUIREMENTS FOR DISAGGREGATED ELECTRIC SUBMETERING

LOAD TYPE	ELECTRICAL
Lighting including exit and egress lighting and exterior lighting	All lighting disaggregated by floor, type or area
HVAC systems and components including chillers, fans, heaters, furnaces, package units, cooling towers, and circulation pumps associated with HVAC	All HVAC in aggregate and each HVAC load rated at least 50kVA
Domestic and service water system pumps and related systems and components	All loads in aggregate
Plug load including appliances rated less than 25 kVA	All plug load separated by floor, type or area All groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf
Elevators, escalators, moving walks, and transit systems	All loads in aggregate
Other individual non-HVAC loads or appliances rated 25kVA or greater	All loads in aggregate
Industrial and commercial load centers 25 kVA or greater including theatrical lighting installations and commercial kitchens	All loads in aggregate
Renewable power source (net or total)	Each group
Loads associated with renewable power source	All loads in aggregate
Charging stations for electric vehicles	All loads in aggregate
Baggage Handling System (BHS)	All loads in aggregate
Concessions	Each feeder board
Emergency, Legally Required, & Optional-Standby Systems	Each system in aggregate
Aircraft Systems: PCAir, 400Hz PBB's, Chargers	Each system in aggregate