



Seattle City Light

Commitment to Conservation

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Conservation Resources Division

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Seattle City Light Service Territory

- ★ Service Area Size: 131 sq mi
- ★ Serving 365,000 customers
- ★ 5,000 medium and large commercial, industrial, institutional and governmental (50 kW or greater)



Conservation Background

1976 - City Council designates energy conservation as SCL's priority energy resource

1977 - Seattle City Light Energy Conservation Office created

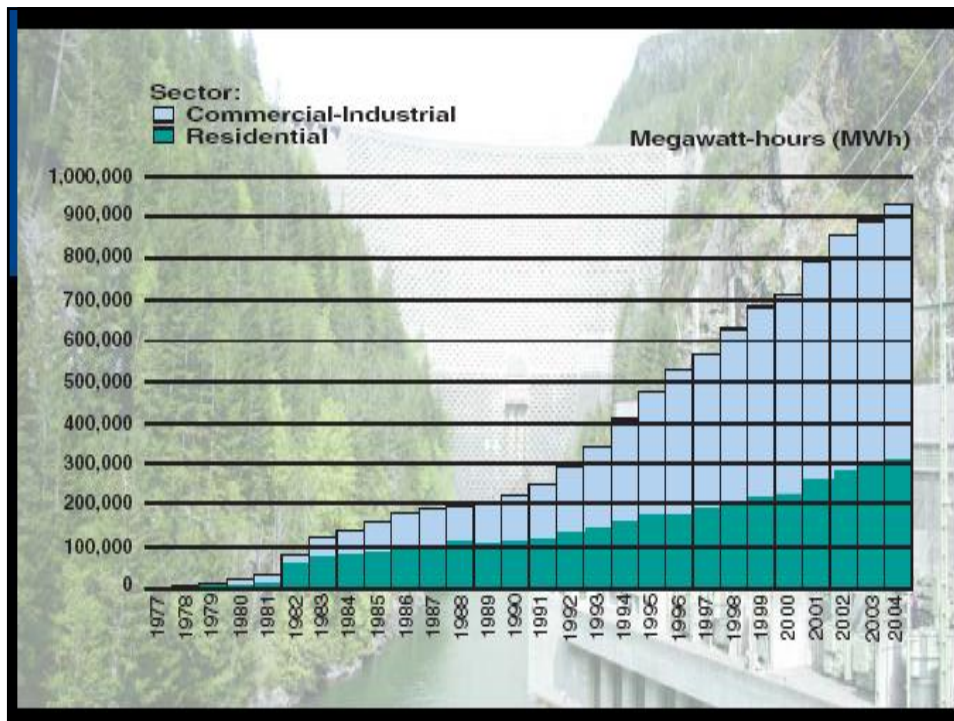
1981 - Bonneville Power Administration begins funding conservation efforts

1992 - *Energy Resources Strategy* sets energy savings acquisition goal

2000 - City adopts an *Earth Day Resolution* specifying that City's electrical load growth will be met by conservation & renewables

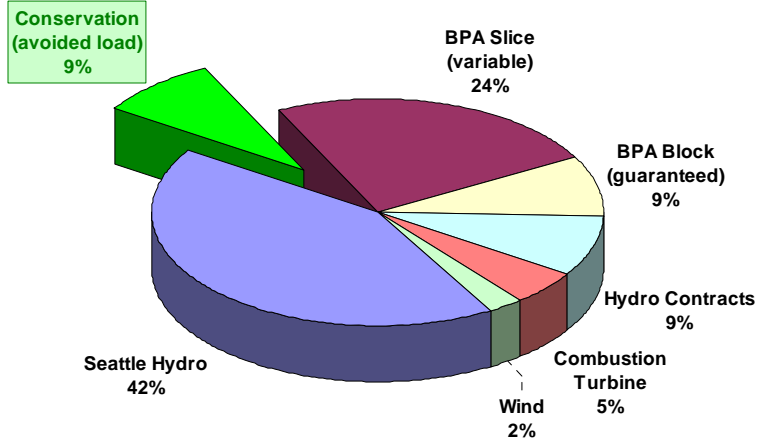
2001 - Conservation Acceleration Plan

2004 - Conservation efforts exceed goals





CITY LIGHT'S 2004 RESOURCES



Conservation Resources Division

★ Commercial and Industrial



★ Community Conservation





Energy Smart Services

- ★ **Target Market**
 - ★ About 5,000 medium and large commercial, industrial, institutional and governmental customers.
 - ★ Chains, franchises and campuses
- ★ **Financial Incentives**
- ★ **Technical Assistance**
- ★ **www.EnergySmartServices.com**



Financial Incentives

- ★ Payments made to customers for installed and verified energy conservation measures
- ★ Based upon measure type, life and adjusted annual kWh savings
- ★ Capped at 70% of total installed cost



Financial Incentives

Examples of Standard Measures Funded		Incentive Amounts Per kWh saved (applied to first-year savings)
New Lighting	T-8 fluorescent	13¢
	Exit signs	\$30 per sign
Retrofit Lighting	T-12 to T-8 fluorescent	10¢
	Incandescent to fluorescent	10¢
	Exit signs	\$20 per sign
Controls	HVAC controls	17¢-20¢
	Central lighting controls	21¢
	Daylighting controls	17¢-20¢
	Occupancy sensors - wall	\$30 per unit
	Occupancy sensors - ceiling	\$90 per unit
HVAC Equipment	Chillers	23¢ or 29¢
	Air conditioners	20¢
	Air-to-air heat pumps	20¢
	Hydronic heat pumps	23¢
	Variable speed drives for fans	23¢
Motors	Process Loads	15¢
	Non-process loads	23¢
Transformers		23¢

Technical Assistance

Facility Assessments

- * Thorough inspection of C&I customer's facility by an SCL analyst
- * Recommendations for energy conservation and O&M measures

Energy Analysis Assistance

- * Funding for in-depth technical analysis of complex ECMs.

Building Commissioning

- * Development of Cx plan
- * Final Cx Report with energy impacts



Technology Demonstration Bonus

Customers get an additional 10% Bonus for:

- ★ T5 Lighting
- ★ LED Lighting
- ★ Daylighting
- ★ Air compressors with variable speed drives
- ★ Conversion away from compressed air
- ★ Ultra-sonic humidification
- ★ Electrically commutated motors



Community Conservation

Target Market

- ★ Residential customers (>330,000 accounts)
- ★ Multifamily building owners & developers
- ★ Small business customers (≈ 15,000)

Financial Incentives

- ★ Special promotions (Savings with a Twist, WashWise)
- ★ Weatherization and Lighting Rebates for multifamily building owners
- ★ Small business lighting retrofit (\$smart Business)
- ★ Incentives for developers to incorporate resource efficient design (Built Smart)



Community Conservation

Neighborhood Power Project

- * Collaboration with other city departments to effectively deliver conservation and resource management services to targeted neighborhoods



Lighting Design Lab

- * Consultation
- * Training
- * Mock-ups
- * Displays
- * Library





2000-2001

Weathering the Storm

- * Drought - Driest year in 75 years
- * Wholesale Energy prices spiked up to 1000%



Special Conservation Incentives

Residential

- * Conservation Kit Mailed
- * 10% at home and at work campaign



Commercial and Industrial

- * 10 + 10 Bonus Incentive Campaign
- * "Energy Focus" tenant conservation campaign



10 + 10 Bonus Campaign

- * **Special Offer Only for Medium and Large Customers**
- * **Additional 10% incentive for projects contracted by 7/31/01**
- * **Another 10% bonus incentive for projects completed by 11/30/01**
- * **Cost cap waived**



Measured Success

- * **C&I conservation projects doubled in 2001 compared to 2000**
- * **218,281 households received Conservation Kits**
- * **Conservation measures taken in 2001 reduced system load by 10% (850,000 MWh)**



Conservation Resources Division

Other Programs

Green Power

- * Solar Demonstration Projects
- * Green Up Program

Sustainability

- * Support for LEED

PowerPlayers

- * Energy Conservation Achievement Awards



Partnerships

- * Bonneville Power Administration
- * Northwest Energy Efficiency Alliance
- * Other City Departments
 - * SPU, DPD, OSE
- * Other Utilities
 - * Puget Sound Energy, Snohomish PUD, Tacoma Power

**Seattle City Light's
Mission: To provide
stable, competitively
priced and
environmentally
sound electricity to
its customers.**