



Conservation Resources Division

Briefing to Councilmember Sawant

Craig Smith, Director

www.seattle.gov/light/conserves

CONSERVATION RESOURCES DIVISION

Presentation Outline

- **Overview of the Division**
- **Policy History**
- **Conservation Budgets, Targets and Achievements**
- **Service Offerings**

ENERGY CONSERVATION OVERVIEW

- Longest continually operated energy conservation program in country, begun in 1977
- Energy conservation has long been considered a resource by the utility
- Cost effective energy conservation provides Seattle with the least cost, least risk, and least environmental impact of any energy resource it can purchase and keeps dollars in the local economy
- Programs designed to reach across all market sectors and to provide access for all ratepayers

ENERGY CONSERVATION OVERVIEW (CONTINUED)

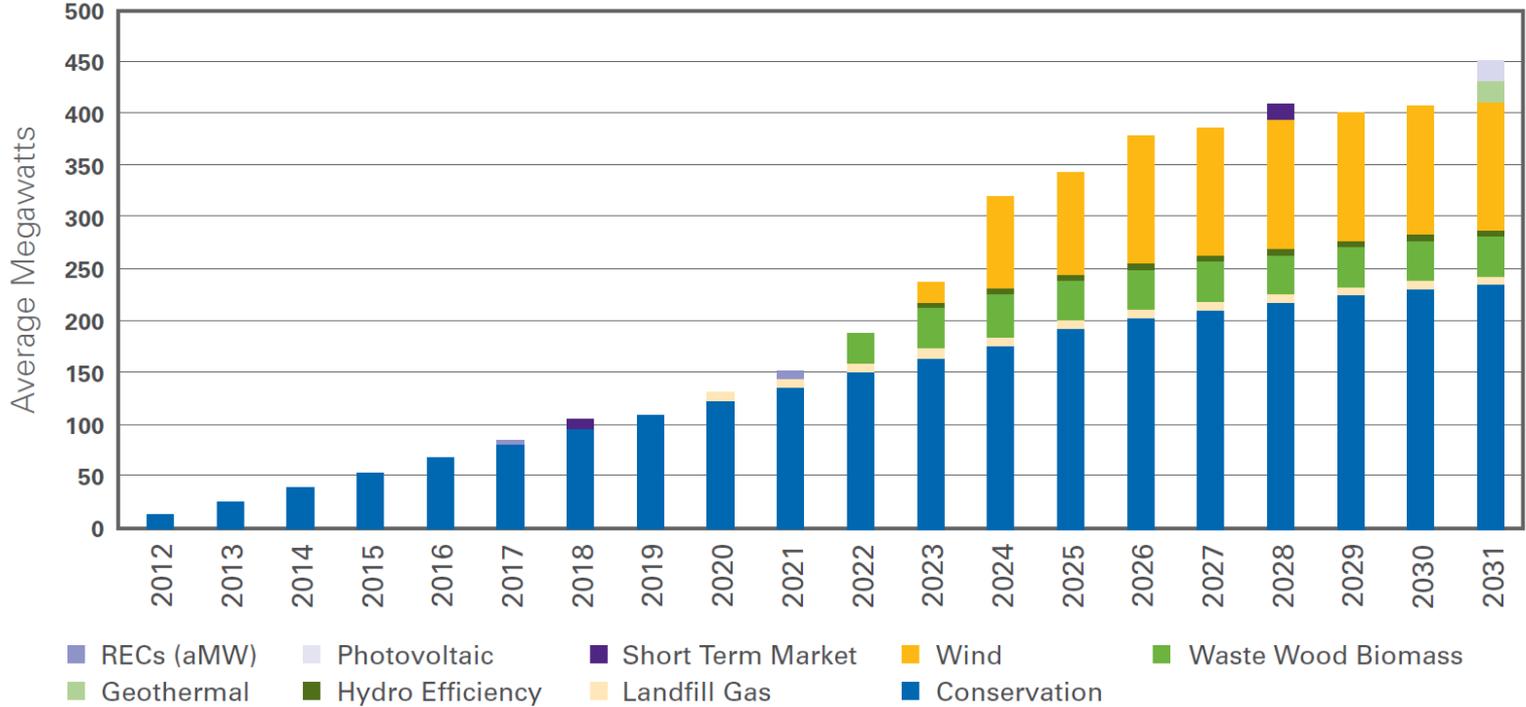
- **Director's Office (Org Unit 480) – provides leadership and administrative support to the Division (8 FTE)**
- **Conservation Field Operations (Org Unit 483) – works directly with larger commercial & industrial accounts to secure energy savings (35 FTE)**
- **Planning & Evaluation (Org Unit 484) – supports the Division with planning, evaluation, reporting and contracting services (10 FTE)**
- **Lighting Design Lab (Org Unit 486 – subset of 487) -**
- **Marketing & Renewables (Org Unit 487) – Delivers energy conservation programs to residential customers. Manages our voluntary renewable programs. Markets our services and program offerings. Provides the Energy Advisor service to all customers. (14 FTE)**

POLICY HISTORY

- Starting in the mid-1970's, City Resolutions have communicated Seattle's preference for energy conservation and/or renewables as the resource of choice in meeting the utilities electric needs.
- Initiative 937 (State Law) mandates conservation targets be established every two years and to acquire "all cost-effective conservation"
- **SCL's Strategic Plan** Meet load growth with conservation and renewable power resources including compliance with I-937 requirements to acquire renewable
- **SCL's 2012 Integrated Resource Plan** – foundation is conservation (see next slide)

CONSERVATION IS FOUNDATION TO SCL'S FUTURE

FIGURE 1: 2012 IRP PREFERRED PORTFOLIO



ENERGY ACHIEVEMENT & EXPENDITURES

2012

	Energy Savings (MWh)	Expenditures (\$)	First Year \$/MWh	Levelized \$/MWh*
Residential	50,275	\$9,977,068	\$198	\$38
Commercial	42,180	\$14,456,681	\$343	\$33
Industrial	7,610	\$1,551,759	\$204	\$23
NEEA	27,734	\$1,631,620	\$59	\$8
Low Income	893	\$2,148,072	\$2,405	\$120
	128,691	\$29,765,200	\$231	\$34

* Takes into account energy savings delivered over measure life

VALUE OF CONSERVATION

Program Participants

- Average 3 year payback
- Energy savings beyond payback continue to reduce customer's electricity bill
- Increased performance and comfort
- Utility seen as a trusted partner for projects and product decisions

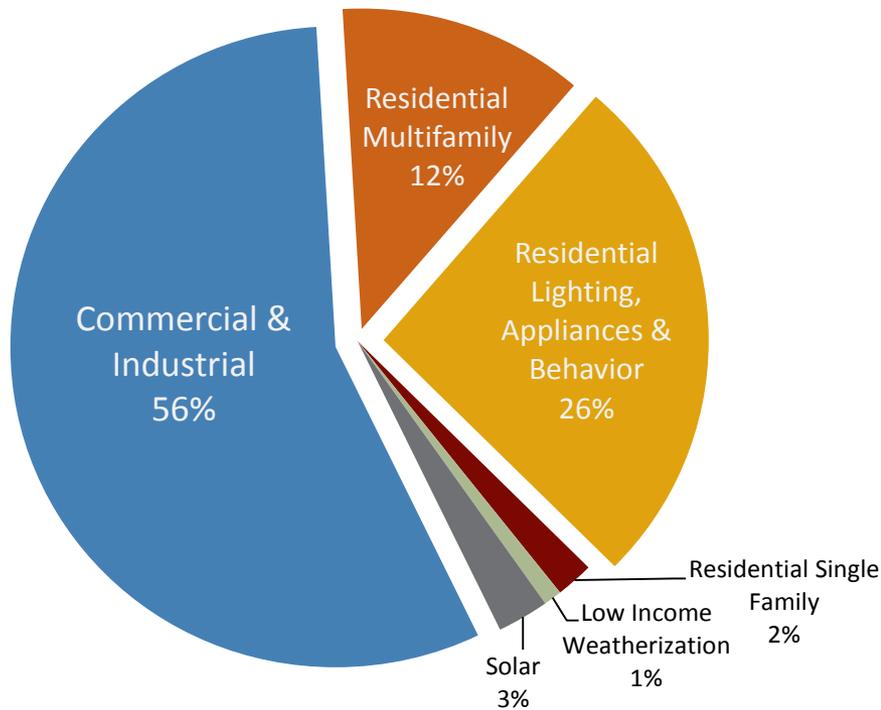
AND

All Ratepayers

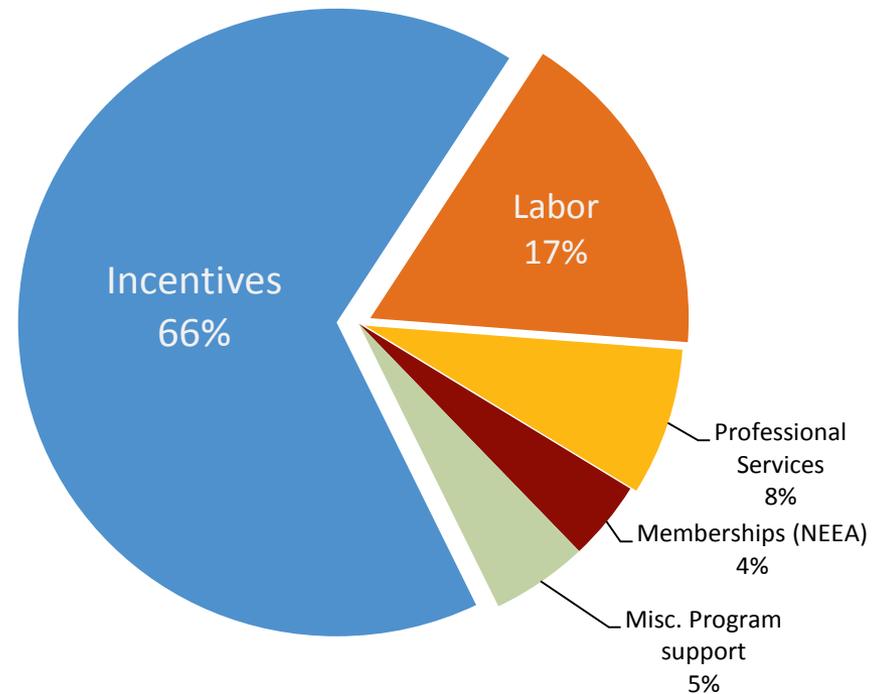
- Average cost of conservation (\$34/MWh) is much lower than short term (\$38/MWh) or long term (\$78/MWh) resource investments
- Very low risk resource
- Avoided transmission and distribution
- Investment remains in the local service territory

CONSERVATION TARGETS & BUDGETS

2014 Savings Target 123 Million kWh

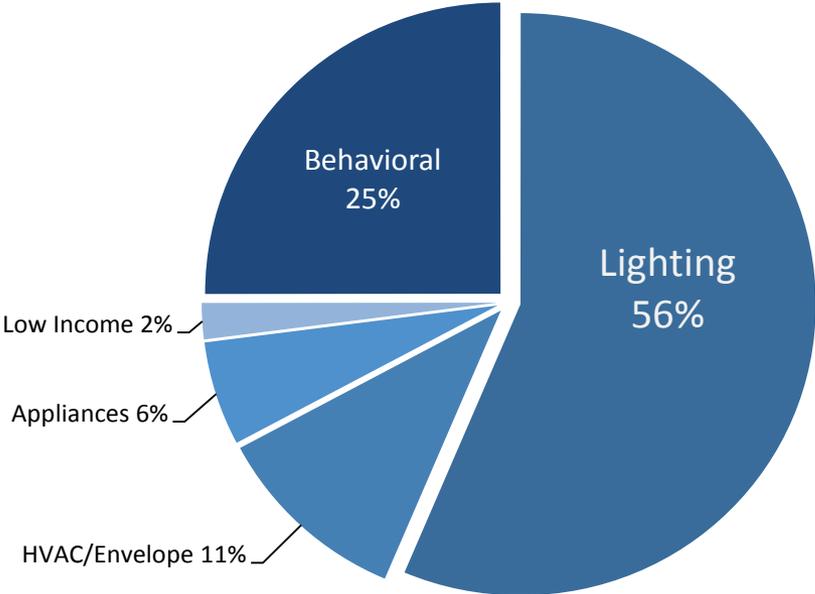


2014 Budget \$46.5 Million

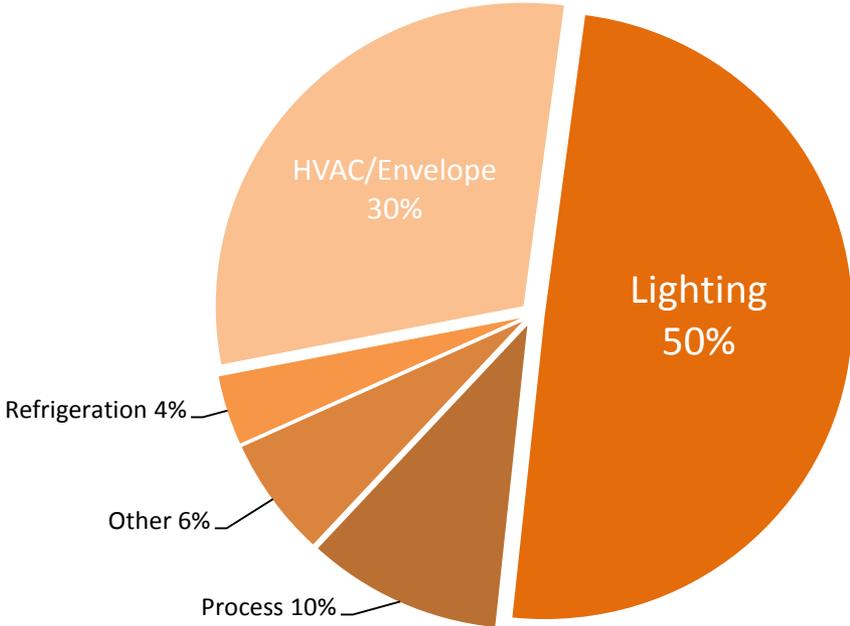


2013 SAVINGS BREAKDOWN

RESIDENTIAL



COMMERCIAL / INDUSTRIAL



Consistent with the 2013 Conservation Potential Assessment Study

PROGRAM OFFERINGS – RESIDENTIAL

	Retrofit Upgrades	New Construction Upgrades	Retail Lighting/ Appliances	Direct Install	Ductless Heat Pumps	Home Energy Reports	Green Up	Solar Production
Multifamily Owners	✓	✓	✓	✓			✓	✓
Single Family Owners	✓		✓		✓	✓	✓	✓
Renters			✓	✓		✓	✓	✓
Low Income	✓	✓	✓	✓	✓	✓	✓	✓

PROGRAM OFFERINGS – COMMERCIAL/INDUSTRIAL

	Lighting	HVAC	Energy Assessments	Process Improvements	Energy Smart Grocer	Green Up	Solar Production
Industrial	✓	✓	✓	✓		✓	✓
Commercial Retrofit	✓	✓	✓		✓	✓	✓
Commercial New Construction	✓	✓	✓			✓	✓
Small Business	✓	✓	✓		✓	✓	✓

PROJECT EXAMPLES – COMMERCIAL/INDUSTRIAL

• Industrial



- Sabey Data Center
- Cooling system project
- 5.6 million kWh/yr
- \$1.1 million SCL Incentive
- 1.5 year customer payback

• Small Business



- Wallingford Dry Cleaners
- Lighting upgrade
- 3,800 kWh/yr
- \$825 SCL Incentive
- 2 year customer payback

• Commercial Retrofit



- Swedish Medical Center
- HVAC upgrade
- 268,603 kWh/yr
- \$21,689 SCL Incentive
- 4 year customer payback

• Commercial New Construction



- Goodwill Jobs Training Building
- Lighting upgrade
- 54,531 kWh/yr
- \$12,542 SCL Incentive
- 9 Year Payback

PROJECT EXAMPLES – RESIDENTIAL

• Retail Lighting



- Twist and Save Program
- Local and national retailers
- 1.6 Million bulbs
- \$1-\$5 Incentive per bulb
- 22 million kWh/yr

• Single Family Retrofit



- Community Power Works Program (CPW)
- Comprehensive upgrades to single family homes
- \$1,117 Average SCL rebate per home
- 5,855 kWh/yr average savings

• Multifamily Retrofit – Direct Install



- Olive Terrace Apartments
- Direct Install Program
- 47 Units, 210 bulbs
- No customer cost – instant payback

• Low Income



- SCL pays for electrically heated homes as part of the Homewise Program
- Average of \$3,000 per project
- Many loans at 0% interest

CONTACTS - CONSERVATION RESOURCES DIVISION

- **Craig Smith, Division Director 206 684-3740**
- **Questions about Programs or Service Offerings, please contact the Energy Advisors at 206 684-3800**



OUR VISION

To set the standard – to deliver the best customer service experience of any utility in the nation.

OUR MISSION

Seattle City Light is dedicated to exceeding our customers' expectations in producing and delivering environmentally responsible, safe, low-cost and reliable power.

OUR VALUES

Excellence, Accountability, Trust and Stewardship