

Seattle City Light / Energy Smart Design FUNDING CALCULATION FORM for CHILLERS

See "Instruction Sheet for Chillers"
for details on how to use this form and for additional requirements.

Facility Name _____	Form Completed by _____	Date _____	New/Retrofit _____
Manufacturer/Model Number _____	Air Handling Unit ID(s) _____	Total Floor Area Served (SqFt) _____	

I. BASELINE PERFORMANCE TABLE - From the 1994 Seattle Energy Code, Table 14-2.

Equipment Type	Rated Cooling Capacity (tons)	Seasonal or Part Load - IPLV	
		COP (Btu/Btu)	Equivalent kW/ton
Air Cooled - With Condenser	less than 150	2.80	1.26
	equal or greater than 150	2.50	1.41
Air Cooled - Condenserless	all capacities	3.20	1.10
Water Cooled	less than 150	3.90	0.90
	equal or greater than 150 and less than 300	4.50	0.78
	equal or greater than 300	5.30	0.66

II. ANNUAL ENERGY SAVINGS

A	Baseline IPLV in kW/ton	From table above	kW/ton
B	Proposed IPLV	If manufacturer provides IPLV in BTU/watthour divide by 3.413 to convert to BTU/BTU	Btu/Btu
C	Conversion to kW/ton	3.52 / (line B)	kW/ton
D	Performance Improvement	(line A) - (line C)	kW/ton
E	Equivalent Full Load Hours	Use 900 if air handler(s) served by this chiller have 100% OSA economizer; otherwise use 1,500	hrs/yr
F	Cooling Capacity per Unit	Rated at ARI Standard Rating Conditions	tons
G	Energy Savings per Unit	(line D) x (line E) x (line F)	kWh/yr
H	Number of Units		
I	Total Energy Savings	(line G) x (line H)	kWh/yr

III. FUNDING

J	Estimated Seattle City Light Funding (1)	(line I) x \$0.285/kWh	\$
K	Project Cost	Cost related to this measure	\$
L	Total Cooling Capacity (tons)	(line F) x (line H)	tons

Seattle City Light Use Only

Approved Funding Amount: \$	Approved By: _____	Date: _____
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Note: (1) This form is not a guarantee of funding from Seattle City Light. The estimated funding will be reviewed by Seattle City Light in relation to system performance, project costs, suitability of the equipment, control strategy, etc. Funding can only be guaranteed through written legal documents signed by Seattle City light.