














## Small Business Financing (SBF) Program

# List of Pre-Qualified Energy Savings Measures (ESMs)

Table of contents:	Page #
 Agriculture	2
 Appliance	2
 Building Envelope	2
 Data Center	3
 Demand Response	3
 Food Service	3
 HVAC	3
 Industrial	5
 Lighting	5
 Other	7
 Pool	7
 Refrigeration	7
 Water Heating	8

### **Be sure to confirm your fuel source eligibility**

All customers who receive service from at least one Investor-Owned Utility are eligible for financing under the Program. However, some measures are gas or electric fuel source specific. Customers who receive electric service from a MUNI (e.g. LADWP or SMUD) may install electric measures, but they will be considered non-ESMs for the purpose of calculating the credit enhancement. Up to \$1 million of financing, per project, is eligible to receive a credit enhancement. Up to 30% of that credit enhanced amount may include non-ESMs.

Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>Agriculture Measures</b>				
Automatic Pump Shut-off Sensor	x			AG-APMS
Booster or Well Pump	x			AG-BWLP
Heat Recovery	x	x		AG-HREC
High Efficiency Ventilation Fan	x			AG-HEVF
Irrigation Pump	x			AG-IPMP
Irrigation Pump Testing	x			AG-IPMT
Plate Cooler	x			AG-PLTC
Sprinkler-to-Drip Irrigation	x			AG-DIRR
VFD on Booster or Well Pump Motor	x			AG-VFDW
VFD on Pump or Fan Motor	x			AG-VFDM
<b>Appliance Measures</b>				
Air Cleaner/Purifier   Energy Star	x		Yes	AP-ACLN
Clothes Dryer (Electric)   Energy Star	x		Yes	AP-DRYE
Clothes Dryer (Gas)   Energy Star		x	Yes	AP-DRYG
Clothes Washer (Electric Hot Water)   Energy Star	x		Yes	AP-WSHE
Clothes Washer (Gas Hot Water)   Energy Star		x	Yes	AP-WSHG
Dishwasher (Electric Hot Water)   Energy Star	x		Yes	AP-DSHE
Dishwasher (Gas Hot Water)   Energy Star		x	Yes	AP-DSHG
Freezer   Energy Star	x		Yes	AP-FREZ
Refrigerator   Energy Star	x		Yes	AP-FRIG
<b>Building Envelope Measures</b>				
Air Sealing	x	x		BE-AIRS
Attic Insulation	x	x		BE-INSA
Cool Roof   Must be certified by Cool Roof Rating Council (CRRC)	x			BE-ROOF
Floor Insulation	x	x		BE-INSF
Heat Reflective Coating   Product must have solar reflectance $\geq 0.5$ as tested to ASTM C1549-16	x			BE-RADC
Radiant Barrier	x			BE-RADB
Wall Insulation	x	x		BE-INSW
Window Film	x	x	Yes	BE-WFLM
Windows	x	x		BE-WIND

Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>Data Center Measures</b>				
Airflow Management Device	x			DC-AIRM
Aisle Containment	x			DC-AISC
Aisle Layout Optimization   Separate hot and cold aisles	x			DC-AISO
Efficient Network Equipment   Energy Star	x		Yes	DC-ENET
Efficient Server   Energy Star	x		Yes	DC-ESER
Efficient UPS   Energy Star	x		Yes	DC-EUPS
Server Consolidation	x			DC-SERC
Server Virtualization	x			DC-SERV
<b>Demand Response Measures</b>				
Automated Demand Response Equipment	x	x		DR-ADRE
Mechanical Energy Storage (MES) System   Must be used for the purpose of permanent load shifting (PLS)	x			DR-MESS
Thermal Energy Storage (TES) System   Must be used for the purpose of permanent load shifting (PLS)	x			DR-TESS
<b>Food Service Measures</b>				
Commercial Cooking Equipment   Energy Star griddles, ovens, steam cookers, or fryers	x	x	Yes	FS-COOK
Commercial Dishwashing Equipment   Energy Star	x	x	Yes	FS-DISH
Hot Holding Cabinet   Energy Star	x		Yes	FS-HHCA
Low Flow Pre-Rinse Spray Valve	x	x	Yes	FS-SPRA
On-demand Hand Wrap Machine	x		Yes	FS-WRAP
Ventilation Hood Control	x	x		FS-HOOD
<b>HVAC Measures</b>				
Air Filter Sensor or Automatic Filter Replacement	x			HV-AFSE
Air-Source or Ground-Source Heat Pump	x	x		HV-HPMP
Air-Side or Water-Side Economizer	x			HV-ECON
Automatic Temperature Setpoint Control	x			HV-ATSC
Chilled Water Outdoor Temperature Reset	x			HV-CWOR
Chiller Optimization Control	x			HV-CHOP
Chiller Upgrade, Retrofit, or Replacement	x			HV-CHIL
Cold Water Booster Pump   Variable speed pump with ECM motor	x			HV-CWBP

Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>HVAC Measures</b>				
Compressor or Condenser	x			HV-COMP
Condensate Recovery		x		HV-CONR
Cooling Tower Upgrade, Retrofit, or Replacement	x			HV-TOWR
Demand Controlled Ventilation	x	x		HV-DCVT
Dual Enthalpy Control	x			HV-ENTH
Duct Insulation	x	x		HV-DUCI
Duct Sealing (Existing)	x	x		HV-DUCX
Duct Sealing (New)	x	x		HV-DUCR
Evaporative Cooling	x			HV-EVAP
Fan or Motor Control	x			HV-CTRL
Furnace - Commercial		x		HV-FURC
Furnace - Residential In-Unit   Energy Star		x		HV-FURR
Furnace Fan Brushless DC Motor   Brushless Permanent Magnet (BPM) or Electronically Commutated Motors (ECM) motors	x			HV-FECM
Gas Hydronic Boiler - Commercial		x		HV-BOIC
Gas Boiler - Residential In-Unit		x		HV-BOIR
Gas Steam Boiler - Commercial		x		HV-STEA
Heat Recovery	x	x		HV-HTRE
Heat/Energy Recovery Ventilator	x	x		HV-HERV
High Performance Circulator Pump   Variable speed pump with ECM motor	x			HV-HPCP
Hotel Guest Room Occupancy Temperature Control	x	x		HV-HOTO
Infrared Gas Heater		x		HV-INFH
Notched or Synchronous Drive Belt	x		Yes	HV-SYNC
Outside Air Reduction	x	x		HV-OAIR
Packaged Terminal Air Conditioner (PTAC)	x			HV-PTAC
Pipe Insulation	x	x		HV-PIPE
Rooftop Units or Packaged HVAC System	x	x		HV-RTUP
Rooftop Unit Control   Must include VFD control of RTU supply fan speed	x	x		HV-RTUC
Smart Thermostat   Programmable and communicating thermostat	x	x	Yes	HV-SMRT
Split/Mini Split Air Conditioning Unit - Commercial	x			HV-MINC
Split/Mini Split Air Conditioning Unit - Residential   18 SEER or above	x			HV-MINR

Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>HVAC Measures</b>				
Static Pressure Reset	x	x		HV-STPR
Steam Trap Audit/Replacement		x		HV-TRAP
Variable Air Volume	x	x		HV-VAVO
Ventilation Fan   Energy Star	x			HV-VFEN
VFD on Compressor Motor	x			HV-VFDC
VFD on Pump or Fan Motor	x			HV-VFDM
Wall Furnace (Fan-type)		x		HV-FANT
Wall Furnace (Gravity)		x		HV-GRAV
<b>Industrial Measures</b>				
Air Receiver Tanks for Load/No Load Compressor	x			IN-TANK
All-Electric Injection Molding Machine	x			IN-INJE
Compressed Air Cycling, Desiccant, or Heat Pump Dryer	x			IN-ADRY
Compressed Air Leak Audit and Repair	x			IN-LEAK
Compressed Air No-Loss Drain	x			IN-DRAI
Compressed Air Pressure Reduction	x			IN-PRES
Energy Recovery Pressure Reducing Valve	x			IN-EPRV
Exhaust Hood Control	x	x		IN-HOOD
High Performance Circulator Pump   Variable speed pump with ECM motor	x			IN-HPCP
Notched or Synchronous Drive Belt	x		Yes	IN-SYNC
Premium Efficiency Motor   Exceed EISA 2007	x			IN-PEMO
Process Heat Recovery	x	x		IN-HEAT
Process Pump	x			IN-PUMP
SCADA System	x	x		IN-SCAD
VFD on Compressor Motor	x			IN-VFDC
VFD on Process Pump or Fan Motor	x			IN-VFDM
<b>Lighting Measures</b>				
Controls: Indoor Daylight Sensor	x			LI-DAYL
Controls: Indoor Networked Lighting System   DLC qualified Networked Lighting Control	x			LI-NLCI
Controls: Indoor Vacancy Sensor	x			LI-VACI

Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>Lighting Measures</b>				
Controls: Integrated Networked Lighting System   DLC qualified Networked Lighting Control	x			LI-INLC
Controls: Integrated Vacancy and Daylight Sensor   Sensors are integral to the light fixture	x			LI-ILCD
Controls: Integrated Vacancy Sensor   Sensors are integral to the light fixture	x			LI-ILCV
Controls: Outdoor Networked Lighting System   DLC qualified Networked Lighting Control	x			LI-NLCO
Controls: Outdoor Occupancy Sensor	x			LI-OCCO
LED Accent/Track Light Fixture   Energy Star	x			LI-TRAC
LED Case Light Fixture   DLC qualified display case, horizontal refrigerated case, or vertical refrigerated case	x			LI-CASE
LED Ceiling Mount or Pendant Fixture   Energy Star	x			LI-CEIL
LED Decorative Lamp   Energy Star screw- or pin-base candle or globe	x		Yes	LI-DECL
LED Directional Lamp   Energy Star screw- or pin-base reflector	x		Yes	LI-DIRL
LED Downlight Fixture   Energy Star hard-wired recessed, surface, or pendant mount	x			LI-DWNF
LED Downlight Screw-base Retrofit Kit   Energy Star recessed or surface mount; screw base retrofit	x		Yes	LI-DWNR
LED Four-Pin Replacement Lamp   DLC qualified vertical or horizontal lamps; UL type A	x		Yes	LI-FPIN
LED General Service Lamp   Energy Star screw- or pin-base standard A-type	x		Yes	LI-GENL
LED High/Low-Bay Fixture or Retrofit Kit   DLC qualified high-bay, low-bay, or high-bay aisle	x			LI-HIGH
LED Interior Directional Fixture   DLC qualified wall wash or track	x			LI-DIRF
LED Linear Ambient Fixture or Retrofit Kit   DLC qualified direct or indirect linear	x			LI-LINA
LED Linear Replacement Lamp (TLED)   DL qualified T8 or T5; 2', 4', U-bend; UL types A, B, C	x		Yes	LI-TLED
LED Mogul Screw Base Replacement Lamp - Indoor   DLC qualified high- or low-bay; UL types B or C	x		Yes	LI-MOGI
LED Mogul Screw Base Replacement Lamp - Outdoor   DLC qualified UL types B or C	x		Yes	LI-MOGO

Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>Lighting Measures</b>				
LED Outdoor Area Light Fixture or Retrofit Kit   DLC qualified pole/arm-mounted area, decorative, wall-mounted, bollards, parking garage, canopy, flood, spot, stairwell	x			LI-OUTA
LED Outdoor Wall, Porch, Post, or Security Light Fixture   Energy Star wall, porch, post or security	x			LI-OUTW
LED Street Light Fixture or Retrofit Kit   DLC qualified pole/arm-mounted roadway	x			LI-OUTS
LED Troffer Fixture or Retrofit Kit   DLC qualified 2x2, 1x4, or 2x4	x			LI-TROF
LED Under-Cabinet or Cove Fixture   Energy Star	x			LI-UCAB
<b>Other Measures</b>				
Building Management System (BMS)	x	x		OT-BMSY
Energy Audit	x	x		OT-EAUD
Energy Management System (EMS)	x	x		OT-EMSY
Energy Measurement, Metering or Monitoring Equipment   Must be installed with at least one other non-lighting Energy Savings Measure on this list	x	x		OT-METR
Generator Circulating Block Heater	x			OT-GCIR
High Efficiency Distribution Transformer	x			OT-TRAN
IOU/REN/CCA Rebate - Other   Measure not elsewhere on this list for which Participating Contractor or Eligible Finance Customer seeks an IOU/REN/CCA rebate or incentive.	x	x		OT-REBA
Plug Load Control	x		Yes	OT-PLUG
<b>Pool Measures</b>				
Gas Pool Water Heater   Energy Star		x		PO-GAHT
Heat Pump Pool Water Heater   Energy Star	x			PO-HPWH
Pool Cover (Electric Heater)	x		Yes	PO-COVE
Pool Cover (Gas Heater)		x	Yes	PO-COVG
Pool Pump Motor   Energy Star	x			PO-MOTR
VFD on Pool Pump Motor	x			PO-VHDM
<b>Refrigeration Measures</b>				
Add Doors to Open Case	x		Yes	RF-DOOR
Add Insulation to Refrigerant Lines or Storage Tanks	x			RF-INSU

Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>Refrigeration Measures</b>				
Air Curtain	x			RF-ACUR
Anti-Condensation Door/Frame Heater Control	x			RF-DHCN
Auto-Close Doors for Walk-in Cooler or Freezer	x			RF-ACDR
Commercial Ice Machine   Energy Star	x		Yes	RF-ICEM
Commercial Refrigerator or Freezer   Energy Star	x		Yes	RF-REFC
Compressor Unit	x			RF-COMP
Condensing Unit	x			RF-COND
Evaporator Defrost Control for Freezer	x			RF-DEFC
Evaporator Fan Brushless DC Motor   Brushless Permanent Magnet (BPM) or Electronically Commutated Motors (ECM) motors	x			RF-EECM
Evaporator Fan Motor Control	x			RF-EFMC
Floating Head Pressure Control	x			RF-FHPC
Low Charge Ammonia	x			RF-AMON
Low Energy Anti-Condensation Door	x			RF-LEDO
Phase Change Material for Refrigerated or Freezer Storage	x		Yes	RF-PCMS
Rapid Close Doors for Refrigerated Warehouse	x			RF-RCDO
Reach-in Refrigerator or Freezer   Energy Star	x		Yes	RF-REAC
Refrigerated Case Door Strip	x			RF-STRP
Refrigerated Case Night Cover	x		Yes	RF-COVR
Variable Refrigerant Flow	x			RF-VRFL
Vending Machines   Energy Star	x		Yes	RF-VEND
VFD on Refrigeration Pump or Fan Motor	x			RF-VFDM
<b>Water Heating Measures</b>				
Central Gas Domestic Water Heater or Boiler		x		WH-CDWH
Faucet Aerator (Electric Hot Water)	x		Yes	WH-FAUE
Faucet Aerator (Gas Hot Water)		x	Yes	WH-FAUG
Faucet Laminar Flow Restrictor (Electric Hot Water)	x		Yes	WH-LAME
Faucet Laminar Flow Restrictor (Gas Hot Water)		x	Yes	WH-LAMG
Heat Pump Water Heater   Energy Star	x			WH-HP55
Shower head - low flow (Electric Hot Water)	x		Yes	WH-SHWE
Shower head - low flow (Gas Hot Water)		x	Yes	WH-SHWG



Measure Name   Requirements	Fuel source & self-install eligibility (E = Electric / G = Gas)			Measure ID
	E	G	SI	
<b>Water Heating Measures</b>				
Ozone Laundry System (Electric Hot Water)	x			WH-OZOE
Ozone Laundry System (Gas Hot Water)		x		WH-OZOG
Shower Thermostatic Valve (Electric Hot Water)	x			WH-VALE
Shower Thermostatic Valve (Gas Hot Water)		x		WH-VALG
Tank Insulation (Electric Hot Water)	x		Yes	WH-TINE
Tank Insulation (Gas Hot Water)		x	Yes	WH-TING
Tank Water Heater (Gas)   Energy Star		x		WH-WHEG
Electric Tankless Water Heater (Electric)	x			WH-ETNK
Gas Tankless Water Heater (Gas)   Energy Star		x		WH-GTNK