

### Regulatory Environment for CHP Current & Future Incentives



## Waster Heat to Power Workshop

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## Overview

2006 CHP rebate program available in CA Changes in store impacting CHP incentives Translating pro-CHP policy statements to continued support for incentives and measures

Call to Arms



# Southern California Gas Company

The SoCalGas SGIP implements programs, provides information and fosters public policies to aid the adoption of clean, renewable, sustainable and efficient energy technologies and practices.

#### Focus

- Energy Education
- Regional Energy Policy and Planning
- Energy efficiency and onsite generation programs

Serves as the region's independent voice on energy issues and is a trusted resource for businesses, consumers and public agencies.

# Self-Generation Incentive Program

"Self-Generation," as defined by CPUC, refers to DG technologies installed on the customer's side of the meter, that provide electricity for a portion or all of the customer's electric load.

Self-Gen systems must be interconnected for // operation w/utility grid to qualify for incentives.

CPUC funded program, pursuant to AB970

Statewide program administered regionally

Non-solar program components scheduled to sunset January 1, 2008

Provides financial incentives for businesses & public agencies installing <= 5 MW\* of "clean" DG

Renewables receive higher incentives



<sup>\*</sup>Max incentive 1MW.

## 2006 SGIP Technology Levels

Incentive Levels	Eligible Technologies	Incentive Offered (\$/Watt)	Minimum System Size	Maximum System Size <sup>1</sup>
Level 1 (Solar)	Photovoltaics	\$3.00/W for project "rolled over" into 2006 from the 2005 Wait List	_	5MW
Level 2 (Renewable Non-Solar) Level 3 (Non- Renewable Non- Solar)	Wind turbines	\$2.80/W for projects received after 12/15/05 \$1.50/W	30 kW	5MW 5MW
	Renewable fuel internal combustion engines and large gas	\$4.50W \$1.00W		
	turbines Renewable fuel micro-turbines and small gas turbines <sup>3</sup>	\$1.30VV	None	
	Non-renewable fuel cells <sup>2</sup> Non-renewable & Waste Gas fuel micro-turbines and small gas turbines <sup>2,3,4</sup>	\$2.50W \$0.80W	None	
	Non-renewable & Waste Gas fuel internal combustion engines and large gas turbines <sup>2,3,4</sup>	nes \$0.60W		

- 1 Maximum incentive payout capped at 1MW
- 2 System must utilize waste heat recovery meeting Public Utilities Code 218.5
- 3 Small Gas Turbines are defined as gas turbines < 1.0 MW
- 4 System must meet AB1685 Emissions standards



# Statewide SGIP Statistics Where are we now?

Technology	Projects			Total (kW)		
	Active	Installed	Total	Active	Installed	Total
IC Engine (renewable)	12	1	13	8,466	500	8,966
IC Engine (non-R)	100	115	215	65,746	76,263	142,00 9
Microturbine (renewable)	8	10	18	1,599	1,670	3,269
Microturbine (non-R)	51	63	114	10,357	9,535	19,892

Updated November 2005

www.sdenergy.org/selfgen



# 2006 SGIP Budget (in millions)

	Bud				
	PG&E	SCE	SDG&E/ SDREO	SoCalGas	Total
Admin/M&E	\$19.20	\$13.45	\$5.45	\$4.40	\$42.50
Level 1	\$136.80	\$101.55	\$39.75	\$29.40	\$307.50
Level 2	\$18.00	\$9.75	\$4.65	\$5.10	\$37.50
Level 3	\$18.00	\$9.75	\$4.65	\$5.10	\$37.50
Total Budget	\$192.00	\$134.50	\$54.50	\$44.00	\$425.00



# Possible SGIP Changes on Horizon: Unanswered Questions

3 cost-benefit tests may serve as minimum hurdle to qualify for rebate

Participant | Non-participant | Societal

PMGs still to be ruled on at CPUC

What happens after 2007?

- Solar program to be stand alone 10-year CSI
- Will there be continued non-solar, renewable and nonrenewable rebate programs?
- Will dedicated long-term program be applied to other onsite generation?



# Positive State Level Support for CHP

#### Energy Action Plan (EAP)

- Implementation Roadmap for state's energy policies
- Established "preferred loading order"

Integrated Energy Policy Report (IEPR)

Policy Blueprint to direct State's Energy Future

#### Several Pro-CHP Recommendations in IEPR

- Separate CHP from DG in next EAP so CHP issues/strategies not subsumed by broader DG topic
- Translate goal of 5,400 MW of CHP by 2020 into yearly IOU procurement targets



## IEPR CHP Recommendations cont'd

Improve access to wholesale energy markets and ability to secure long-term utility contracts.

Compensate IOUs for revenue shortfalls to make them neutral to deployment of DG/CHP.

Require utilities to design and construct distribution systems more DG/CHP compatible.

Explore production credits for CO2 reductions provided by CHP.

Direct utilities to provide transmission and distribution capacity payments for CHP projects.

## More IEPR Recommendations

#### Addressing natural gas:

- Diversify NG supply portfolio w/LNG & other sources (e.g. biomass gasification, landfill gas, agricultural gas, and underground gaseous reservoirs).
- To increase natural gas efficiency, CHP facilities should play a larger role in meeting electricity supply needs.

## Addressing water-energy relationship:

- Pursue cost-effective water efficiency opportunities that produce energy savings, especially in SoCal
- Increase generation from water system, including in-conduit hydropower and biogas recovery

### We Want You!

High state level impetus for increased CHP exists, but must be translated into continued support

Stakeholders can build on current momentum and seek continued support for CHP



# Ways to Get Involved

#### Legislative Arena

- Support DG legislation
- Meet with energy committee members /staff
- Frame CHP message in context of implementing state directives

#### Regulatory Arena:

- Join CPUC DG service list (R.04-03-017)
- File comments (as appropriate)
- Meet with Commission staff

#### Governor's Office



## Thank You!

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