

Kurt Scheuermann

California

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Compendium of Programs

- **Self-Generation Incentive Program**

CA Self-Generation Incentive Program

- Year Launched: 2001
- Primary Goal
 - Initially: Reduce electricity demand quickly
 - Future: Reduce greenhouse gas emissions
- Secondary Goal
- Pursue efficiency and competitive benefits offered by CHP
- Enhance electricity system reliability
- Promote local business growth



CA Self-Generation Incentive Program

- Number of Projects: 343
- Program Investment: \$115 million
- Total Investment: \$458 million
- Capacity at Full-Build: **177 MW Total**

133 MW IC Engine

18 MW Gas Turbine

18 MW Microturbine

8 MW Fuel Cell

CA Self-Generation Incentive Program Administration

- Program Administrator: IOU: PG&E, SCE, SCG
Nonprofit: CCSE
- Eligible Participants: IOU Customers
- Recipient of Payments: CHP Owners/Developers

CA Self-Generation Incentive Program Solicitations

- Solicitation Mechanism: Request for applications
- Frequency of Offering: Continuous
- Annual Budget: Variable
- Payment Structure: First-cost buydown
- Reporting Requirements:

Metering (ENGO, HEAT, FUEL)

Annual Impacts Evaluation

Periodic Benefit:Cost Evaluation

CA Self-Generation Incentive Program

CHP Technologies

- Eligible: Fuel Cells
Internal Combustion Engines**
Microturbines**
Gas Turbines**
- Ineligible: **Variable eligibility
2001-2007: Eligible
2008-2009: Not Eligible
2010- : TBD (S.B. 412 on Gov.'s desk)
- Rationale: Air pollutant emissions considerations
CO₂ emissions considerations

CA Self-Generation Incentive Program

Example Flagship Project

- Project/Site Name: Vineyard 29
- Project Champion: Owner, Engineer
- Technology: Microturbine
- System Size: 120 kW
- Flagship Features
 - Trigeneration (power, cooling, heating)
 - First US application of adsorption chiller
 - Standalone operation capability
 - Remote diagnostic & control capabilities

CA Self-Generation Incentive Program

Summary Impressions

- Working Well
 - Acceleration of DG technology evolution
 - Rapid response to 2001 energy crisis
 - Expand range of choice available to customers
- Challenges
 - Natural gas price variability
 - Air pollutant emissions tradeoffs
 - Evolving nature of DG technologies
 - Performance diminution as DG systems age
 - Achieving on-peak demand reduction
 - Achieving high heat recovery rates

CA Self-Generation Incentive Program

Program Administrator Contact Information

Pacific Gas & Electric (PG&E)

Web: <http://www.pge.com/mybusiness/energysavingsrebates/selfgenerationincentive/index.shtml>

Phone: 415-973-6436

Email: selfgen@pge.com

Fax: (415) 973-2510

Mailing Address

Self-Generation Incentive Program

P.O. Box 770000

Mail Code B27P

San Francisco, CA 94177-001

California Center for Sustainable Energy (CCSE)

Web: <http://energycenter.org/index.php/incentive-programs/self-generation-incentive-program>

Phone: (858) 244-1196

Fax: (858) 244-1178

Email: selfgen@energycenter.org

Address

California Center for Sustainable Energy

Attn: SELFGEN Program Manager

8690 Balboa Ave, Suite 100

San Diego, CA 92123

CA Self-Generation Incentive Program

Program Administrator Contact Information

Southern California Edison (SCE)
Web: <http://www.sce.com/b-rs/sgip/self-generation-incentive-program.htm>

Phone: 1-866-584-7436

Fax: (626) 633-3402

Email: CSIGroup@sce.com

Address

Program Manager Self-Generation
Incentive Program

Southern California Edison
2131 Walnut Grove Ave, 3rd Floor, B 10
Rosemead, California 91770

Southern California Gas Company (SoCalGas)
Web: <http://www.socalgas.com/business/selfgen>

Phone: 1-866-347-3228

Email: selfgeneration@socalgas.com

Fax: (213) 244-8222

Address

Self-Generation Incentive Program Administrator
Southern California Gas Company
555 West Fifth Street, GT22H4
Los Angeles, CA 90013-1011

CA Self-Generation Incentive Program

Presenter Contact Information

EPA CHP 2009 Partners Meeting and NYSERDA Conference on CHP

Name: Kurt Scheuermann

Title: Consulting Research Engineer

Organization: Itron, Inc.

Address: 601 Officers Row, Vancouver, WA,
98661

Telephone: 360/798-8261

Email: kurt.scheuermann@itron.com

Website: www.itron.com