

Minutes:
Sustainable Silicon Valley General Meeting
Friday, May 18, 2007
9:00 am – 10:30 am
City Hall
1017 Middlefield Road, Redwood City, CA

Attending:

Karl Okulove	Adobe	Wendy Stone	Silicon Valley Power
Doug Koenig	County of San Mateo	Robert Cormia	Foothill DeAnza
Dianne Anderson	County of San Mateo	Caroline Judy	County of Santa Clara
Peter Sharer	Agilewaves	Elizabeth Tompkins	Ecology Action
Brandon Tinianov	Quiet Solution/Serious Materials	David Kaneda	IDeAs
John Addison	Clean Fleet Report	Don Von Dollen	EPRI
Jeff Teel	Palo Alto Medical Foundation	Will Griffiths	SVLG
Kurt Yeager	Galvin Electricity Initiative	Xavier Mamo	EDF
Gerry Mack	Agilewaves	Sally Tomlinson	SSV
Rick Row	SSV		
Larry Owens	Silicon Valley Power		
Dan Hoffman	Network Appliance		

Welcome new SSV Partners: Intel

Best Practices in CO₂ Emissions Reductions: The Galvin Electricity Initiative

Kurt Yeager, Galvin Electricity Initiative

This presentation is linked to the meeting listing on the Calendar page of the SSV website.

Please refer to the slides posted on the website, linked to this meeting listing.

The electricity delivery system in the US has been outdated for decades.

The Galvin Electricity Initiative goal is to design a system that will not fail

- * Eliminate interruptions
- * Meet individual needs
- * Enable distributed generation and energy smart appliances
- * Achieve universal demand response and power market participation
- * Minimize the cost of smart electrical service

Propose to

- * Electronically control power system
- * Integrate electricity and communications
- * Transform meters into 2-way gateways
- * Incorporate combined heat and power and distributed resources
- * Reintroduce direct current circuits/microgrids at local level
- * Enable smart efficient end uses

Galvin Initiative focus is to start with the consumer.
Limiting factor is not the utilities but the regulatory environment.
Utilities need to be rewarded for

- * Efficiency
- * Quality
- * Reliability
- * Not just through-put

We need a federal presence in electricity distribution and regulation.
Need standards – utilities can't serve so many different kinds of home systems.

Recommend getting away from centralization to microgrids

- * Local systems of generation, distribution, and end use
- * Local bulk storage
- * Master control to manage demand and supply

Galvin Initiative and EPRI are defining requirements for master controller

- * Expect to put out an RFP in the fall

Partner Report: Larry Owens – Silicon Valley Power

Santa Clara Green Power is on top 10 list for participation

- * Customers can opt for 100% renewable energy
- * Goal is 10% of customers participating
- * This is in addition to the Renewable Energy Portfolio for SVP overall

Neighborhood Solar Program, residential customers donate money to help place solar power on local non-profit facilities. Donations are matched by SVP public benefit funds. Two neighborhood PV installations have been completed.

SVP rebates often parallel PG&E but sometimes differ

- * E.g., SVP rates are very low, so incentives for solar need to be higher to make it appealing

SVP gets 30% of its power from eligible renewable (wind, geothermal, small hydro)

These minutes are submitted by Sally Tomlinson.

Next meetings:

Friday, June 15, 9-10:30 am: topic and location to be determined.