Green Power Advisory Committee (GPAC)
Alternative Energy Team

Dave Gardner
Vice President of Member & Employee Services
Rural Energy Conference 2007
Concern for the Communities We Serve

GPAC
Green Power Advisory Committee

Member Advisory Committee
GVEA Staff

- Kate Lamal, Vice President
- Paul Morgan, Manager of Systems & Network Engineering
- Tom Hartnell, Purchasing Manager
- Henrik Wessel, Environmental Officer
- Todd Hoener, Energy Efficiency Specialist
- Dan Bishop, Engineer
- Dave Gardner, Vice President
Fossil fuel capabilities possibly good for 300 years, but not in sufficient volume to meet demand as soon as 2040.
Dispatcher monitors system load via SCADA (system control and data acquisition)

Conventional power resources:
Other gas turbines, hydro-electric, BESS, coal plant, diesel generators, purchased power.

Feedback System Status

Stored Oil & Gas

Gas Turbine Generator

Energy demand accommodated

Power Distribution
Dispatcher monitors system load

Conventional power resources:
Other gas turbines, hydro-electric, BESS, coal plant, diesel generators, purchased power.

Renewable power sources:
Wind, solar, hydro etc. (Future).

Power in excess of demand used to electrolyze hydrogen

stored Oil & Gas

Gas Turbine Generator

Energy demand accommodated

Power Distribution

Possible future H2 storage

Possible hybrid hydrogen generation (future)
Possible Solutions

- Conservation
- Other Energy Sources
  - (renewable/green sources)
- Start now to prepare for the future
Why did GVEA Convene the Green Power Advisory Committee

The Board of Directors is Responsive to the Membership

–Responsibility to our Members
–Responsibility to our Community
–Responsibility to the Environment
GPAC Purpose

• To identify options, issues and particular concepts relating to Green Power alternatives.

• Provide recommendations regarding these options; and funding, marketing and education issues and concepts.

The GPAC will not draw statistical conclusions or set policy.
GPAC Selection

• Application Process
  – Representation
  – Experience
  – Interest in Green Power

• Final selection was made by the Alternative Energy Team
Original GPAC Members

- Henry Cole
- Tom DeLong
- Joseph Beedle
- Ron Johnson
- Elwood Lynn
- Scott Bell
- Mike Musick
- John Davies
- Lissa Robertson
- William Sackinger
- Joe Durrenberger
- Kelly Hill Scanlon
- Greg Egan
- Richard Seifert
Cooperative Principles

- Voluntary and Open Membership
- Democratic Member Control
- Members’ Economic Participation
- Autonomy and Independence
- Education, Training, and Information
- Cooperation Among Cooperatives
- Concern for Community
Specific Issues

• Focus on the Utility Perspective in Alaska
• Economies of Scale
• Partnerships/Joint Ventures
• Economic Responsibility and Viable
GVEA’s Expectations

1. Green Power pricing recommendation (financing)
2. List of Green Power alternative recommendations
3. Public education plan recommendation (what is important for members to know)
4. Marketing plan recommendation (how can we tell them)
GVEA’s Planning Cycle

- Look out 50 years
- Depreciate for 30 years
- Plan for 10 years
- Schedule for 5 years
- Budget for 1 year
Members’ Education Issues

- Only 39% of our members recognize that Green Power is more expensive than non-renewable energy
- Only 38% recognize that Green Power is still being developed and is not readily available
- Hydro-Electric (63%)
- Nuclear (11%)
GPAC Original Schedule

- Monthly meetings
- Interim sub-committee meetings
- Presentation of a Final Report to the Board of Directors prior to the 2004 Annual Meeting
GPAC Current Activities

- Quarterly meetings
- Interim sub-committee meetings
- Preparation and presentation of an Annual Report to the Board of Directors prior to each year’s Annual Meeting
Contact Information

The GVEA Alternative Energy Team
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