# Green Power Advisory Committee (GPAC)

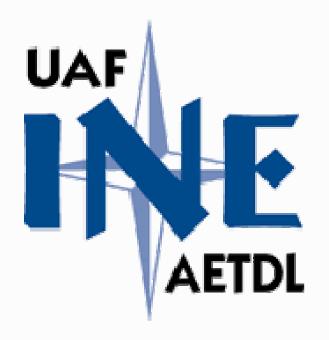
Alternative Energy Team

**Dave Gardner** 

Vice President of Member & Employee Services



## Rural Energy Conference 2007





## Concern for the Communities We Serve

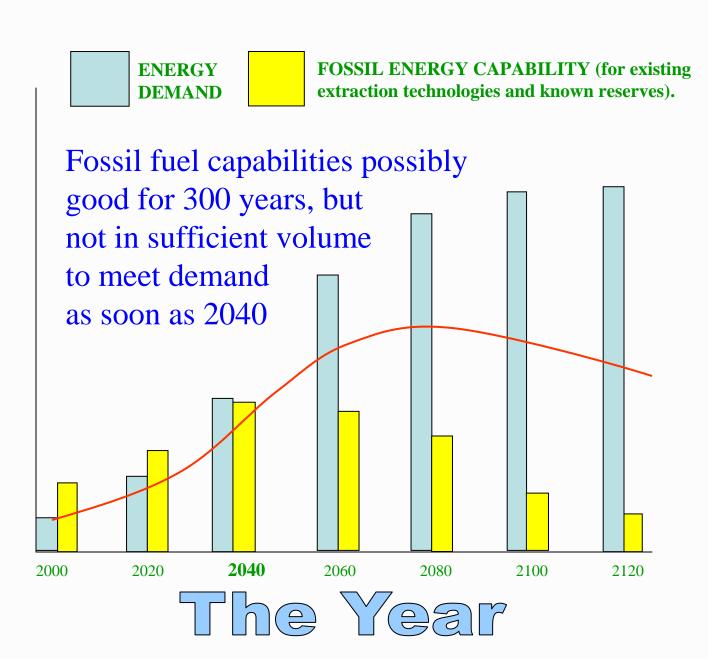




Green Power
Advisory Committee

#### **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



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

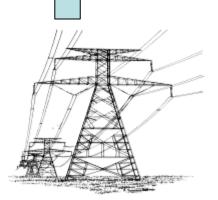


Stored Oil & Gas



Gas Turbine Generator

Energy demand accommodated



**Power Distribution** 

### Dispatcher monitors system load



Power in excess of demand used to electrolyze hydrogen



Stored Oil & Gas

Possible future H2 storage



#### Conventional power resources:

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

Renewable power sources:

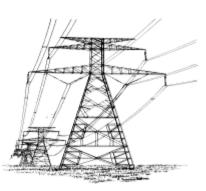
Wind, solar, hydro etc. (Future).

Gas Turbine Generator



Possible hybrid hydrogen generation (future)

Energy demand accommodated



**Power Distribution** 

#### **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**

- 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 Dave Gardner (451-5635)

