

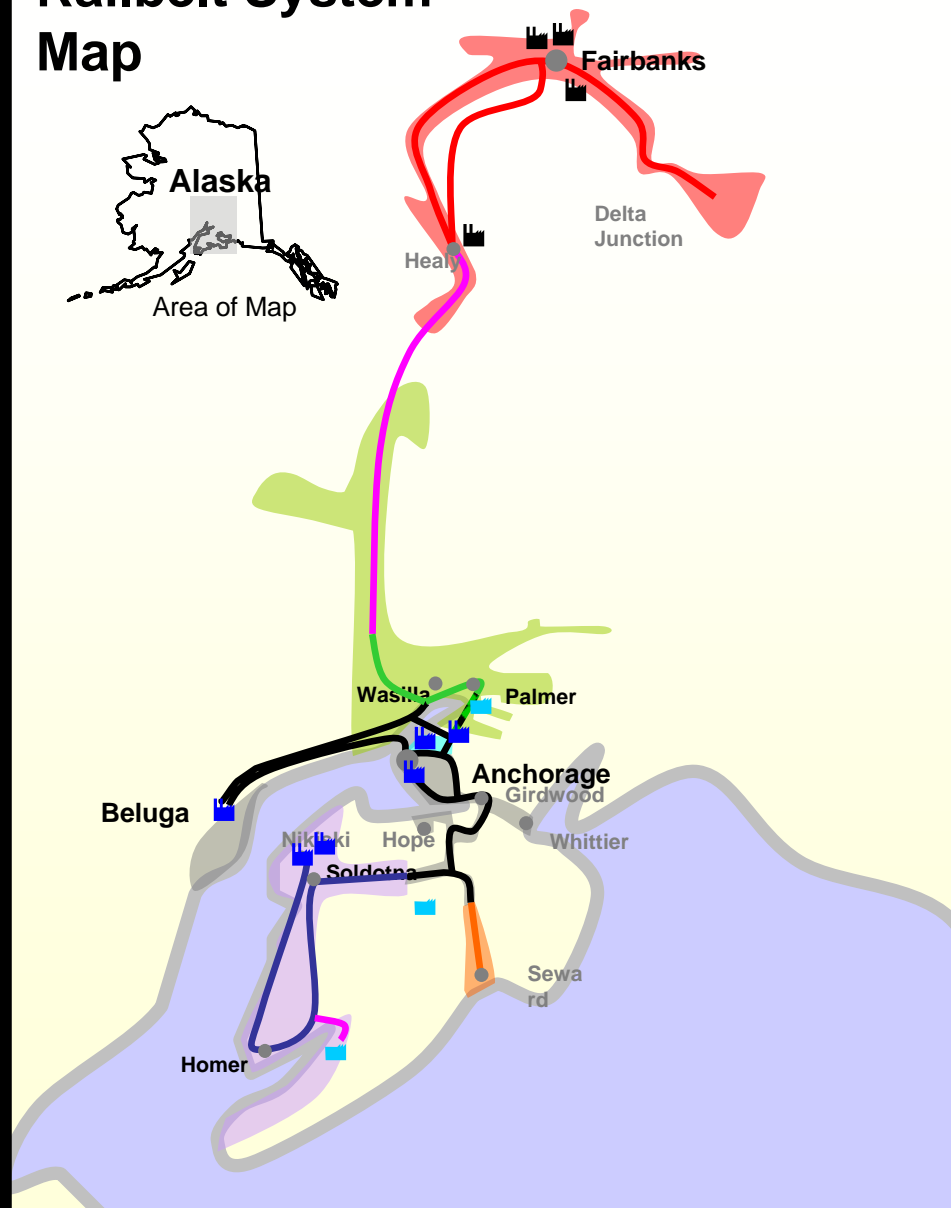


Chugach Electric Association, Inc.
Renewable Energy Committee (REC)
December 2006

AGENDA

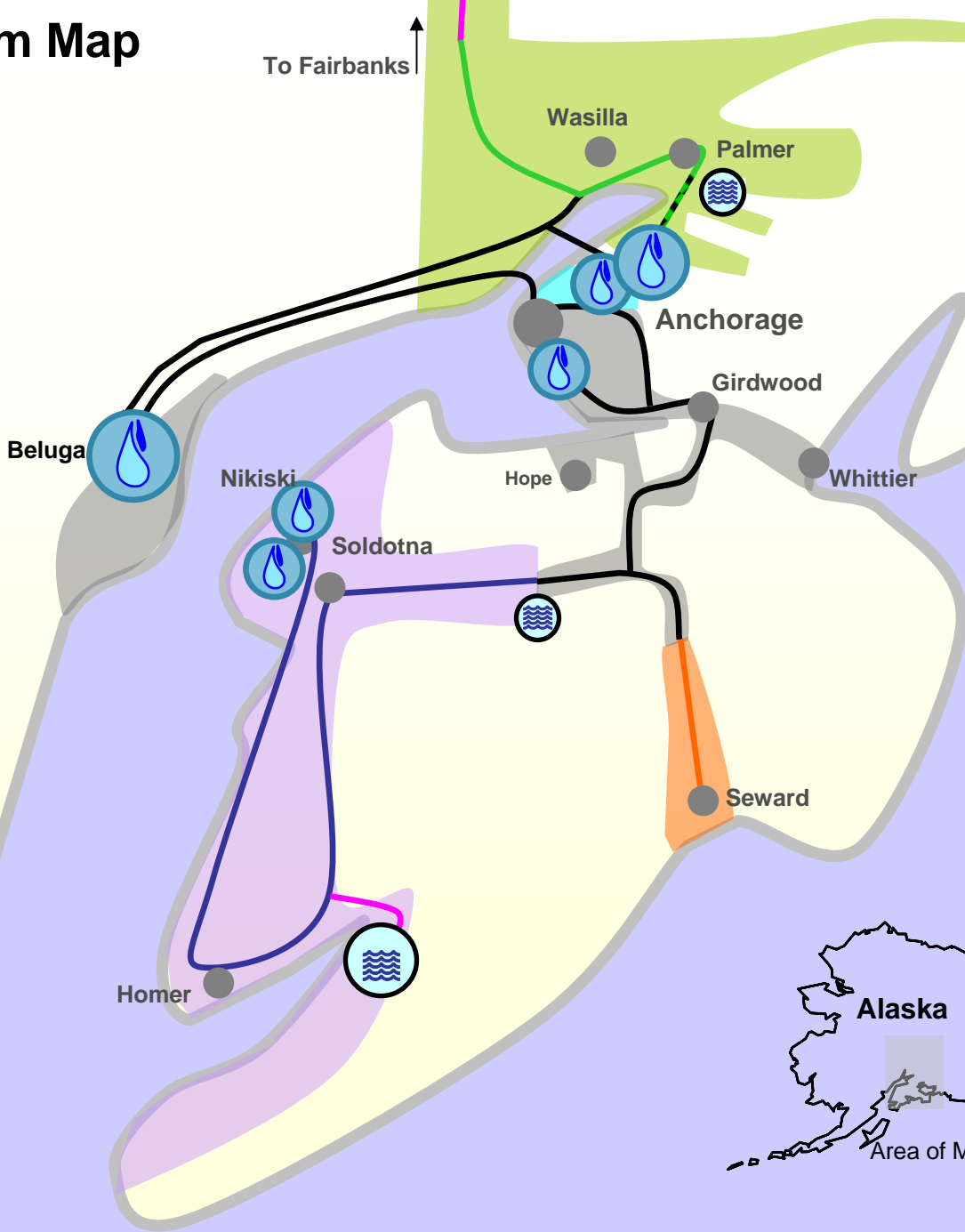
- **Overview of Railbelt and Chugach Electric System**
- **Chugach 2006 Generation Planning Process**
- **Chugach Long-Term Energy Requirements**
- **Renewable Energy Committee**
 - **Proposed objective**
 - **Proposed timeline**

Railbelt System Map




Railbelt System Map


To Fairbanks ↑



 Beluga Chugach 390MW


 Bernice Lake Chugach 68MW

 Nikiski AEECI (HEA) 42MW


 Bradley Lake CEA, ML&P, GVEA MEA, HEA & SES 117MW

 Eklutna Lake CEA, ML&P & MEA – 40MW

 ML&P Plant 2 ML&P 242MW

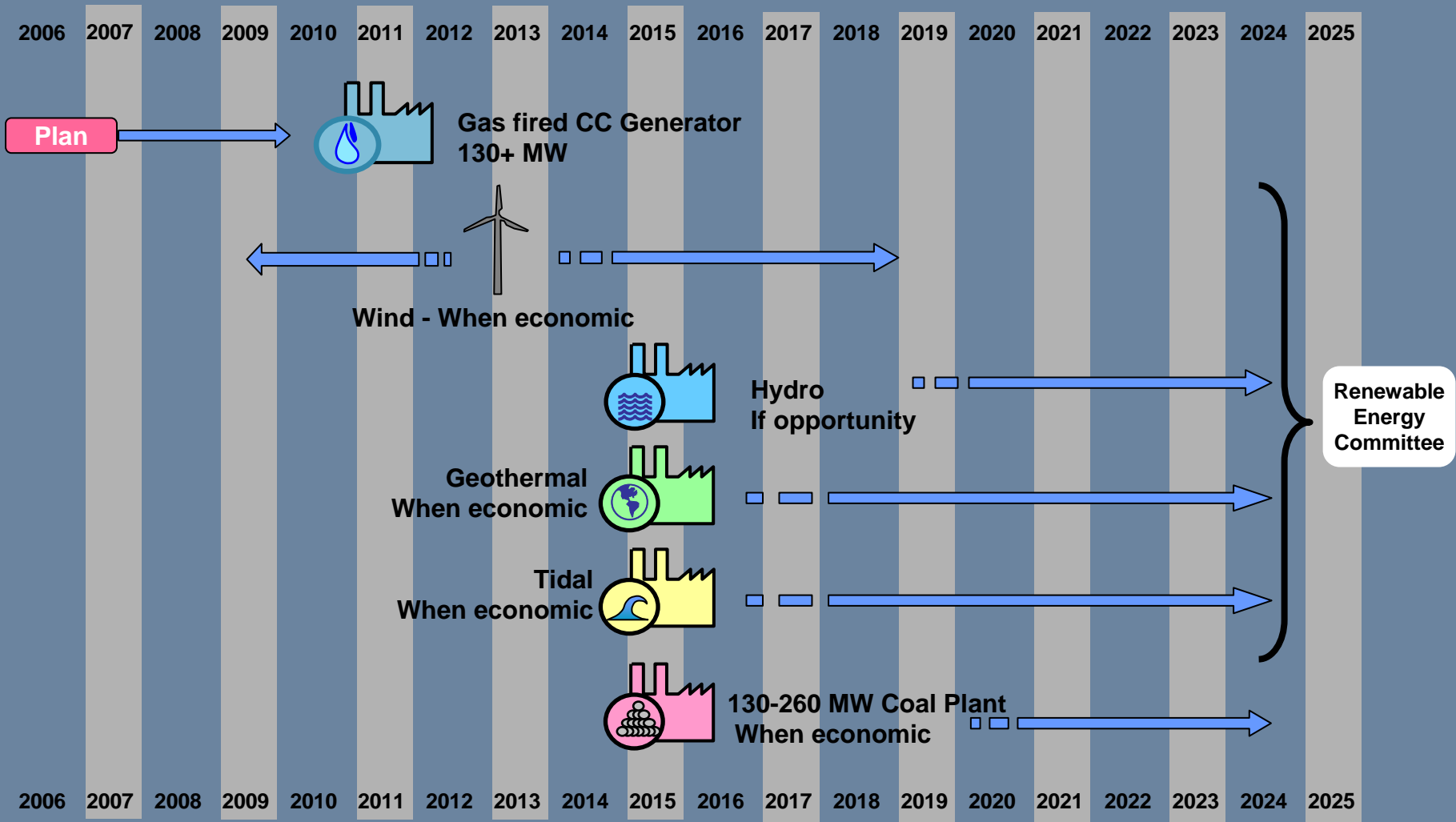
 ML&P Plant 1 ML&P 69MW

 International Chugach 47MW

 Cooper Lake Chugach 20MW

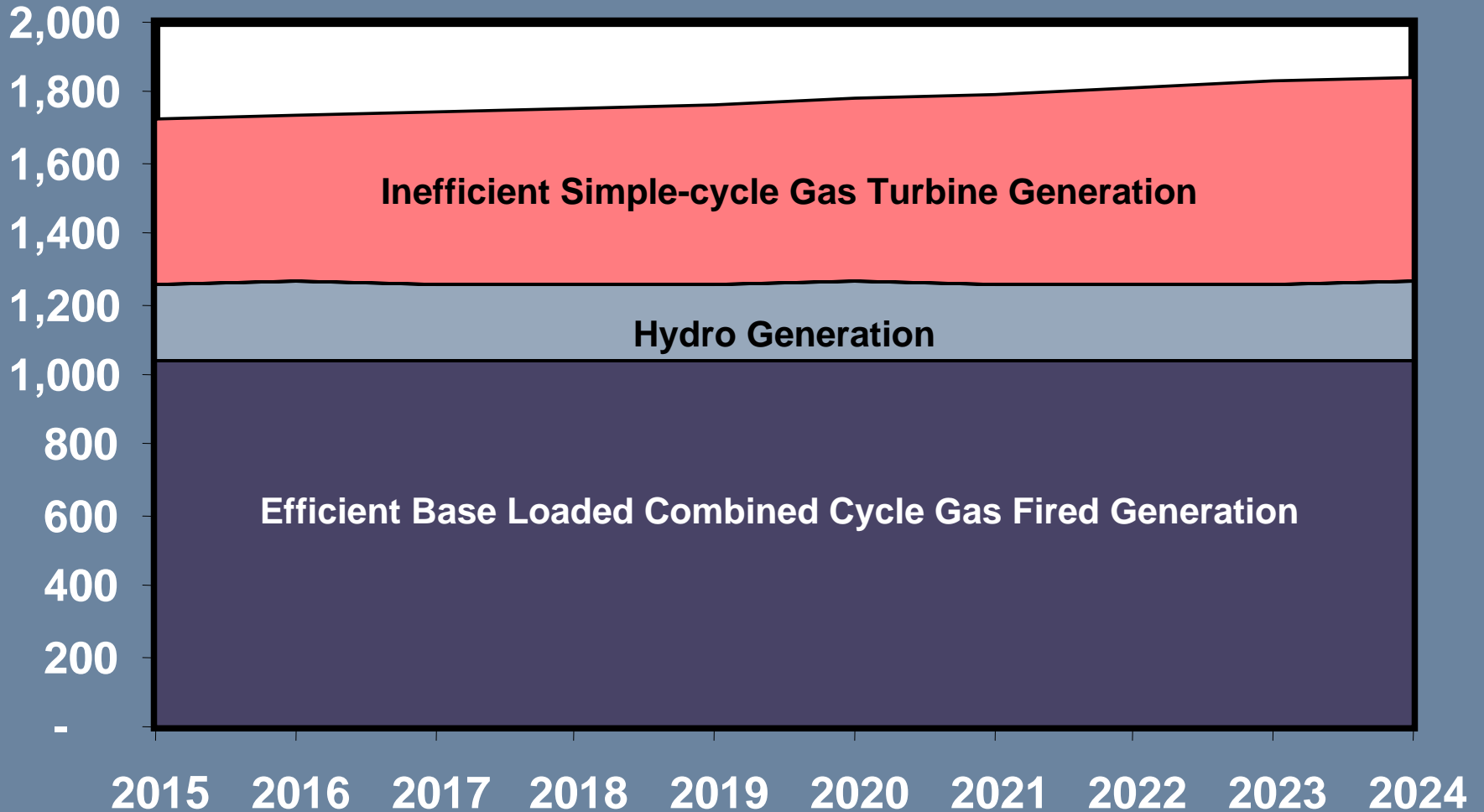


Renewable Energy Committee CHUGACH'S 2006 GENERATION PLAN



Renewable Energy Committee
GENERATION FORECAST

kWh (x 1,000,000)

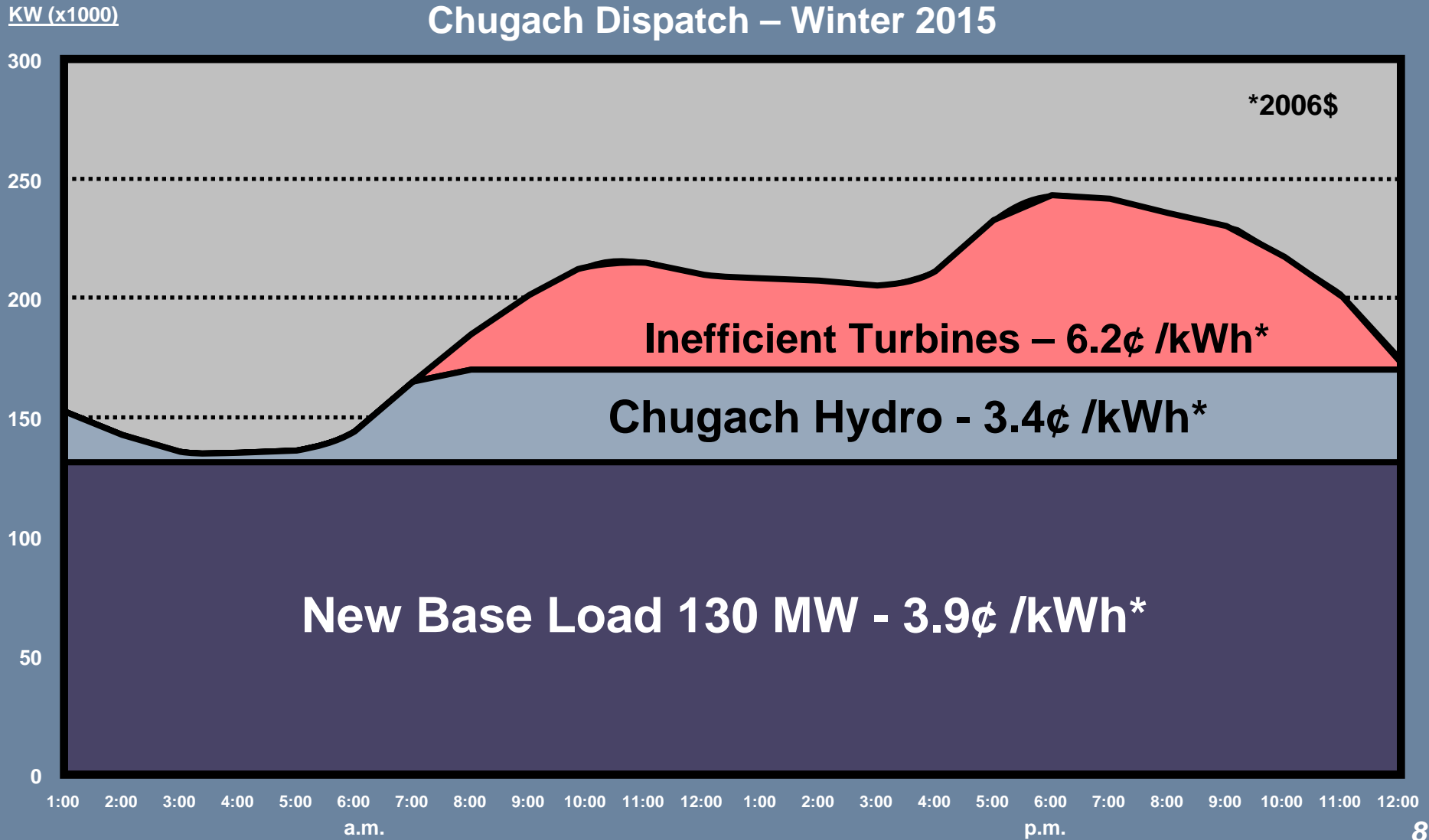


2015 GENERATION REQUIREMENTS

- Chugach seeks to:
 - Reduce generation cost by replacing 6.2¢ power with lower cost renewables
 - Reduce natural gas usage

	KWhs (x 1,000,000)	% of Total	Variable Cost 2006\$
New Efficient Base Load Unit	1,035	60%	3.9¢
Existing Hydro	224	13%	3.4¢
Existing Inefficient Gas-Fired Units	466	27%	6.2¢
Total Generation	1,725		

HOW CAN RENEWABLES OFFSET EXPENSIVE POWER?



Renewable Energy Committee
PROPOSED OBJECTIVES

- **Identify utility-scale renewable energy projects that Chugach should pursue**
 - **Wind**
 - **Hydroelectric**
 - **Geothermal**
 - **Tidal**
- **Establish long-term renewable energy goals**

Renewable Energy Committee
PROPOSED ORGANIZATION

Committee Chair:

- **Work with Chugach staff representative**
- **Responsible for meeting the committee's objectives**

Members:

- **Participate and assist with committee**

Chugach Staff Representative

- **Provide guidance**
- **Assist the committee chair and the committee**

Renewable Energy Committee
PROPOSED TIMELINE

- Jan.-April - Present and discuss different renewable alternatives**
- May & June - Ranking of renewable projects and establish renewable goal**
- July - Present finding to Chugach Board**
- Aug. & Sept. - Chugach incorporates findings into the 2007 generation plan and Chugach management adopts it**
- Oct. - Chugach presents 2007 Generation Plan to Board**
- Nov. - Chugach Board of Directors approves plan**

RENEWABLE ENERGY COMMITTEE

- Discussion
- Select Committee Chair