| State of The | Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Florida Capital Circle Office Center • 2540 Shumard Oak Boulevard Capital Circle Office Center • 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850 -M-E-M-O-R-A-N-D-U-M- CLERK | | |
|--------------|---|--|--|
| DATE: | March 6, 2006 | | |
| TO: | Blanca Bayo, Director, Division of Commission Clerk and Administration Cayce Hinton, Chief Advisor to Commissioner Deason CH | | |
| FROM: | | | |

RE: Docket No: 060000 – Undocketed Filings for 2006

This office has received the attached correspondence from Biomass Investment Group, Inc. during a meeting that was on February 21, 2006.

Please place the attached memorandum and materials in Docket No. 0600000 – Undocketed Filings for 2006 immediately.

CHH:mm

CMP _____

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- COM _____
- CTR _____
- ECR
- GCL
- OPC _____
- RCA _____
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- SGA _____
- SEC
- OTH _____

DOCUMENT NUMBER-DATE 0 1 9 3 7 MAR-6 8 FPSC-COMMISSION CLERK

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| State of | Florida Flublic Service (Capital Circle Office Center • 254 Tallahassee, Florid -M-E-M-O-R-A-I | 0 Shumard Oak Boulevard a 32399-0850 |
|----------|---|---|
| DATE: | March 6, 2006 | |
| TO: | J. Terry Deason, Commissioner | Contration 5 20 En |
| CC: | Lisa Polak Edgar, Chairman Isilio Arriaga, Commissioner Matthew M. Carter, II, Commissioner Katrina J. Tew, Commissioner | Rorida Public Service Commissioner Dessonment |
| FROM: | Richard D. Melson, General Counsel Ref | |
| RE: | Meeting With Biomass Investment Group | |

On February 21, 2006, you met with Schef Wright and Kevin Mills, representing the Biomass Investment Group. The meeting was a technical briefing on their proposed development of biomass projects in Florida. Toward the end of the conversation, Mr. Wright mentioned that Biomass would be applying for QF status in Florida, possibly sooner than 90 days, but did not discuss the merits of that request.

Section 350.042(1) prohibits a Commissioner, with certain exceptions, from initiating or considering ex parte communications regarding the merits of a pending proceeding. That section also precludes an individual from discussing with a Commissioner the merits of any issue that he or she knows will be filed with the Commission within 90 days

Because there is no pending proceeding, and because the conversation did not involve the merits of a potential QF status issue, it appears the conversation was not prohibited by Section 350.042.

Nevertheless, in an abundance of caution, I recommend that a short memo regarding the meeting, and a copy of any meeting materials, be placed on the public record pursuant to Section 350.042(6). Since there is no pending proceeding at this time, but one may be filed within 90 days, I recommend that:

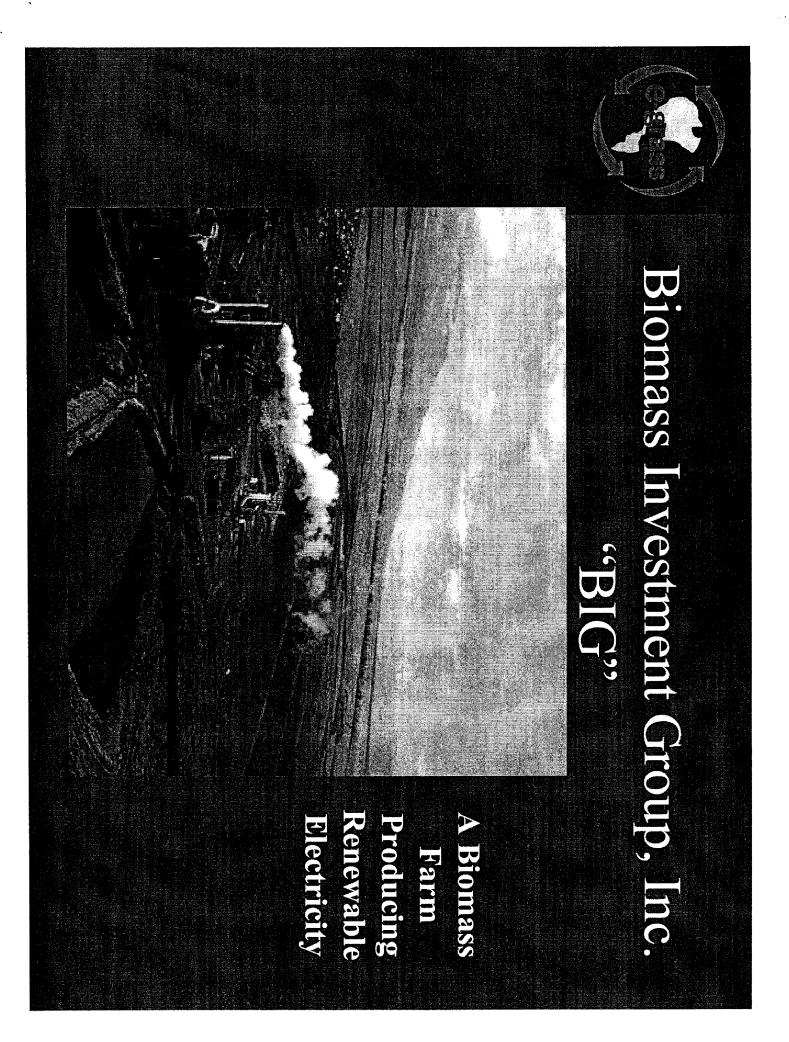
1) the materials be placed immediately in Docket No. 060000, which relates to undocketed filings for 2006; and

2) if a docket addressing these matters is opened within 90 days, the materials be placed at that time in the docket file.

RDM/mee

Meeting Brief February 21, 2006

Commissioner Deason met with Schef Wright and Kevin Mills, representing the Biomass Investment Group. This meeting was a technical briefing on their proposed development of biomass projects in Florida. For the most part the discussion addressed the technical operation of e-grass biomass generation plants. However, towards the end of the conversation, when describing their permitting process, Mr. Wright mentioned that they would be applying for QF status in Florida. When asked when they would make this request, the Commissioner was informed for the first time that they could be requesting QF status within weeks. Commissioner Deason expressed his concern that they were not to discuss any matter that could be filed at the Commission within 90 days, to which Mr. Wright replied that he had purposely stayed away from any discussion of the merits of their request for QF status. He believed that without discussing the merits, he was not violating the 90 day prohibition. There was no discussion of their potential request for QF status beyond that. No docketed items were discussed.



Mission Statement

To reduce dependence upon foreign oil and other fossil fuels.

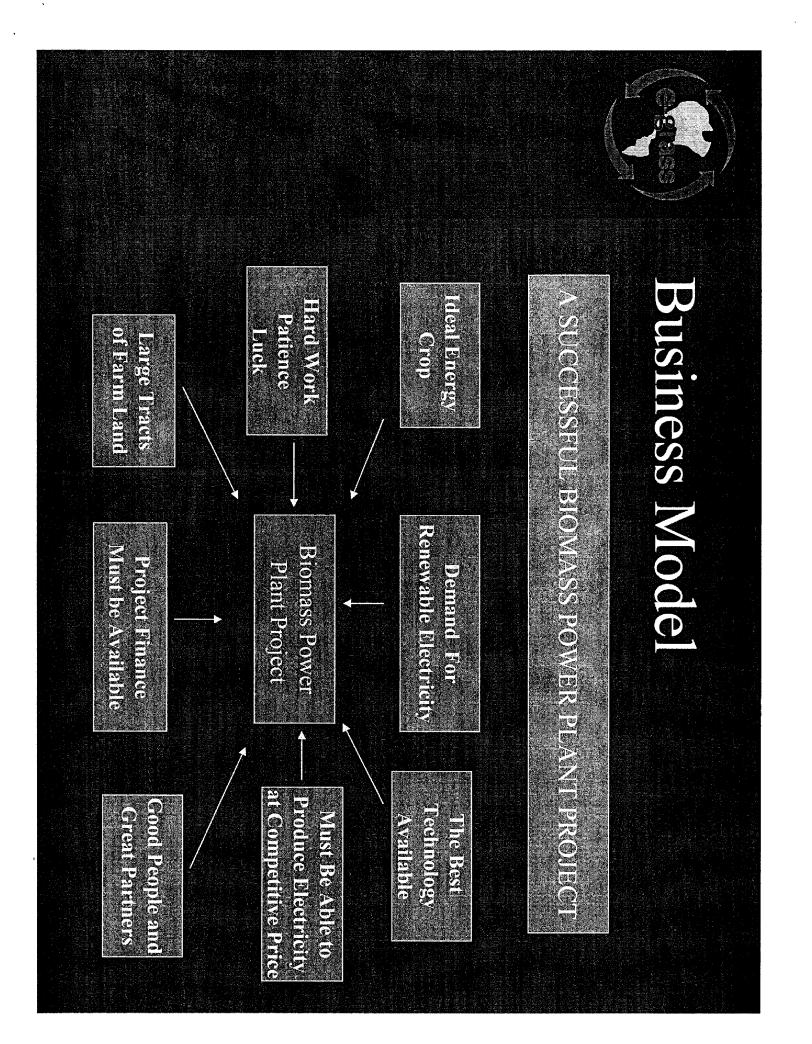
To improve air quality by reducing harmful emissions.

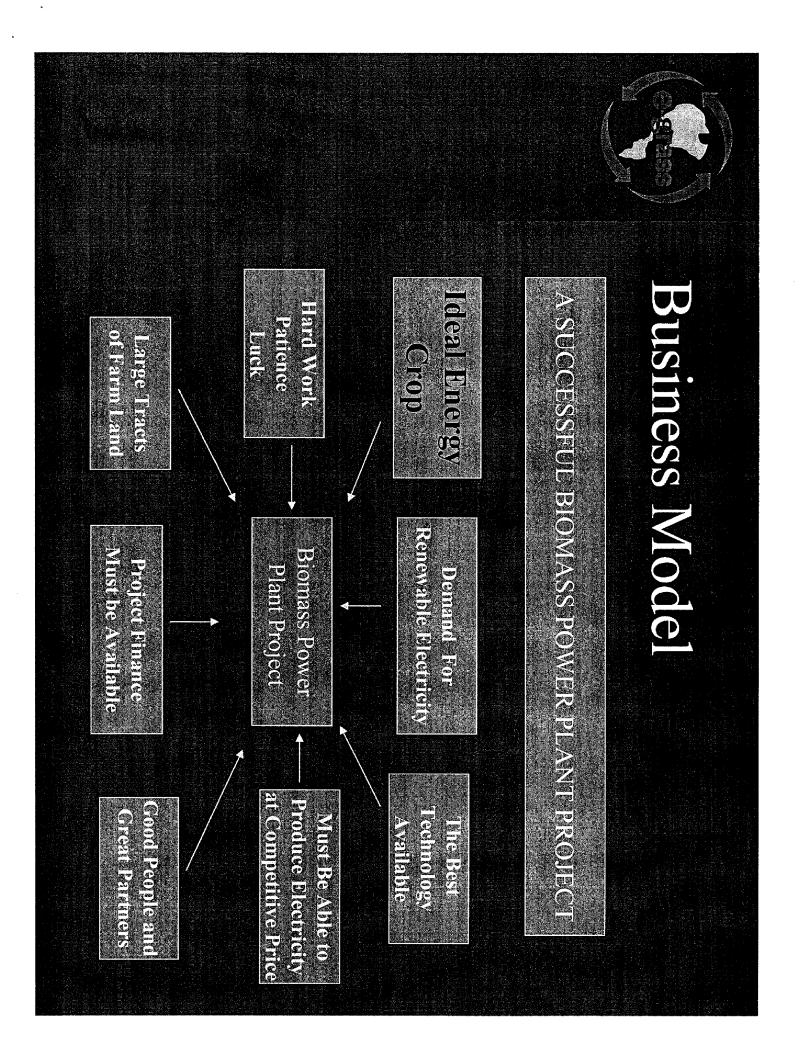
To create new jobs and business investment.

while producing renewable electricity and To earn a good return on capital invested improving the environment



Business Model that we have developed. Mission Statement by utilizing the We can meet the objectives of our





E-GrassTM - The Ideal Energy

Crop

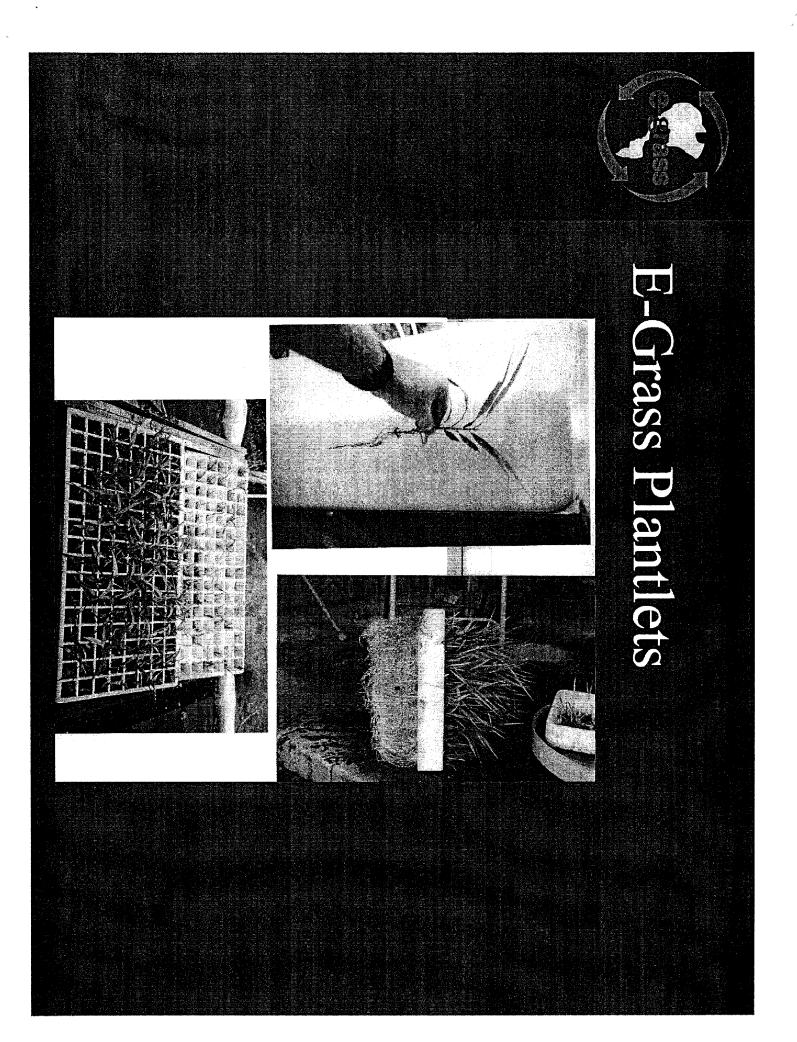
High yield per acre.
High BTU value per pound.
Low maintenance cost.

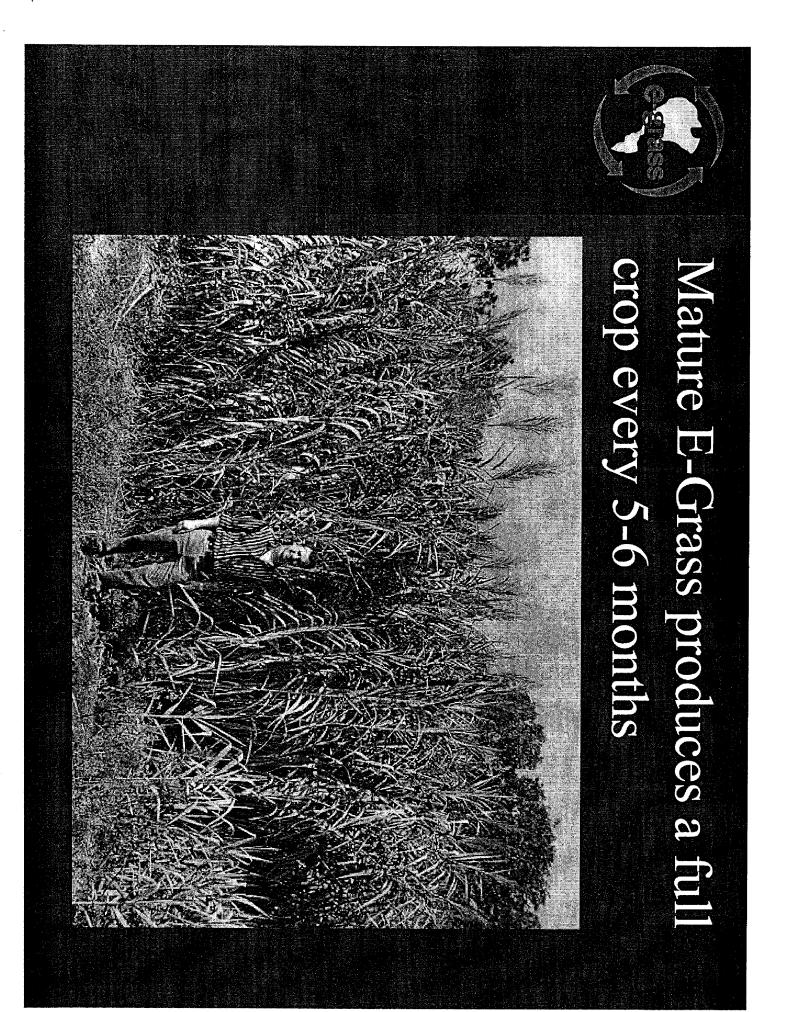
4 Not vulnerable to disease and pests. Easy harvest and storage.

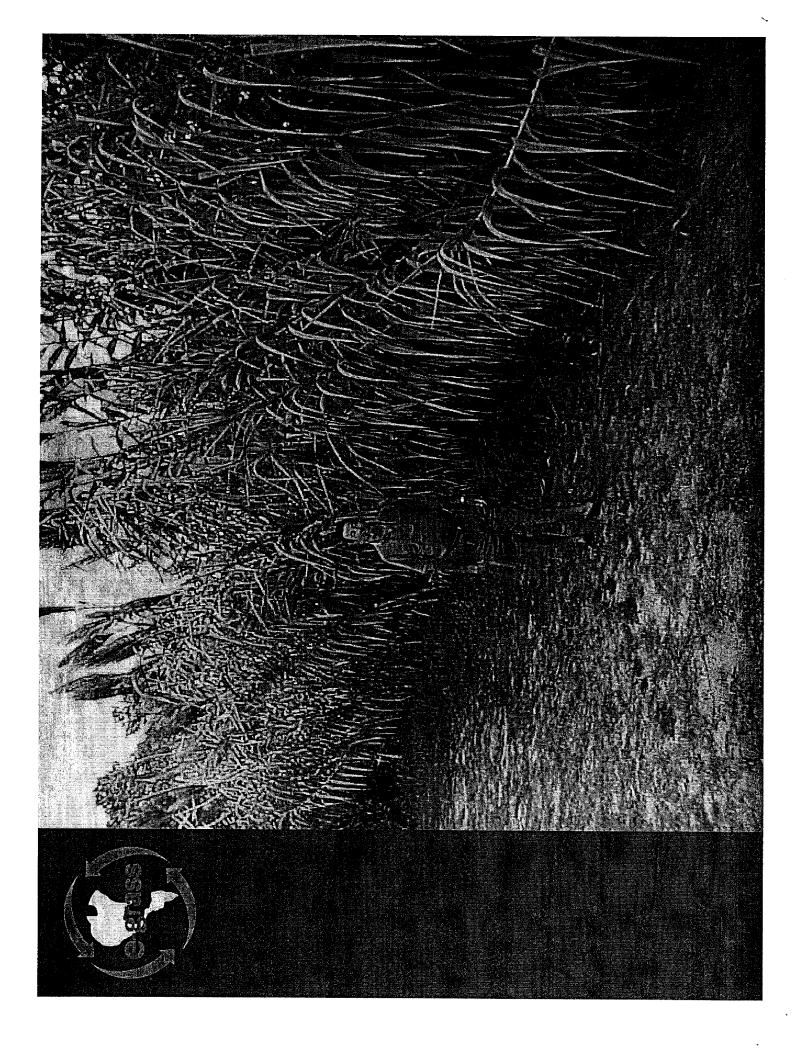
E-Grass is the Ideal Energy Crop.

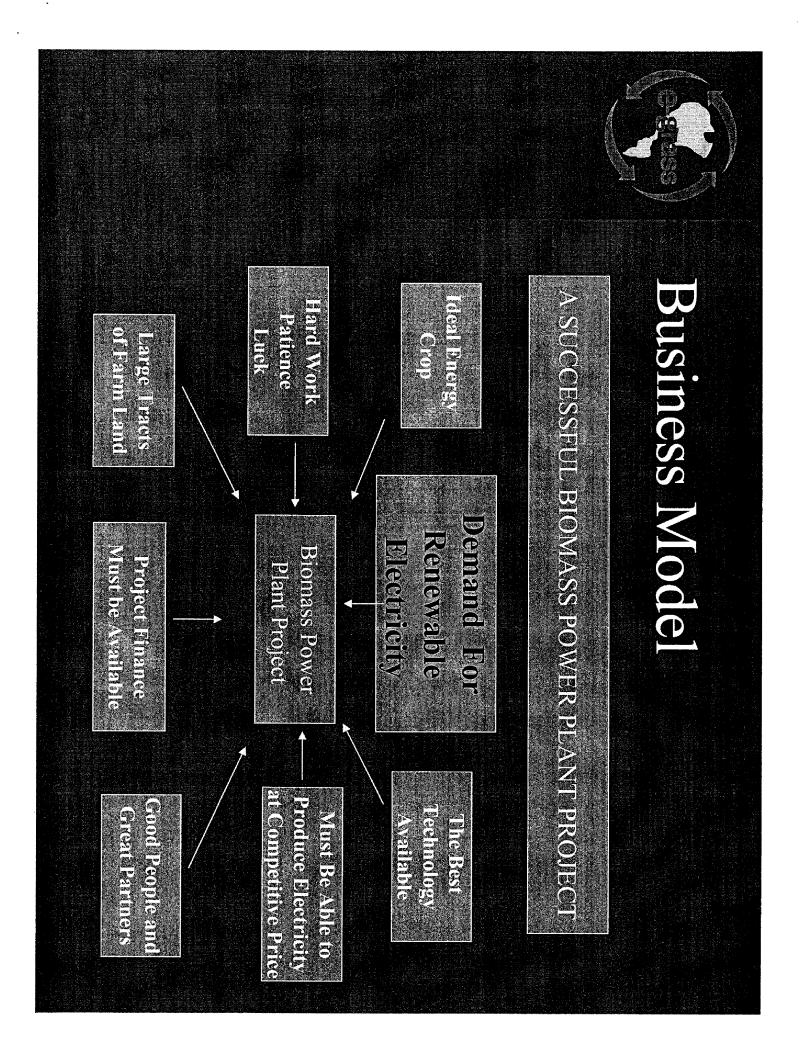
E-GrassTM – The Ideal Energy Crop

▼ The crop is basically free of plant disease ▼ Approximately 8,000 BTUs per pound. \checkmark Yields 15-20 dry tons per acre per harvest. You can use conventional methods for The Company has obtained a proprietary You can get two harvests per year in warm climates with adequate rainfall. method of tissue culturing plantlets. harvesting the crop. and insect infestation.







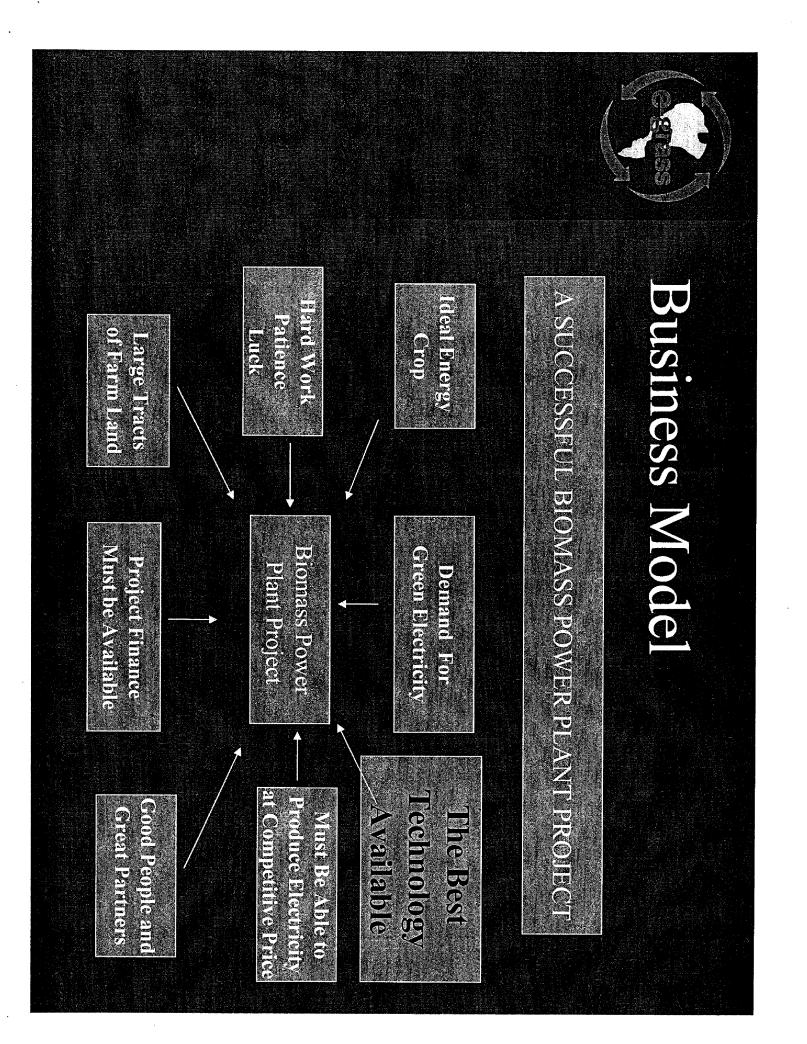


Demand for Renewable Electricity

✓ The US military and many US governmental Currently, 21 states have adopted portfolio agencies have adopted goals for the utilization of requirements.

Almost all electric utility companies are seeking Many municipal and other power distribution systems have established green electricity programs renewable electricity

better and more stable fuel costs.



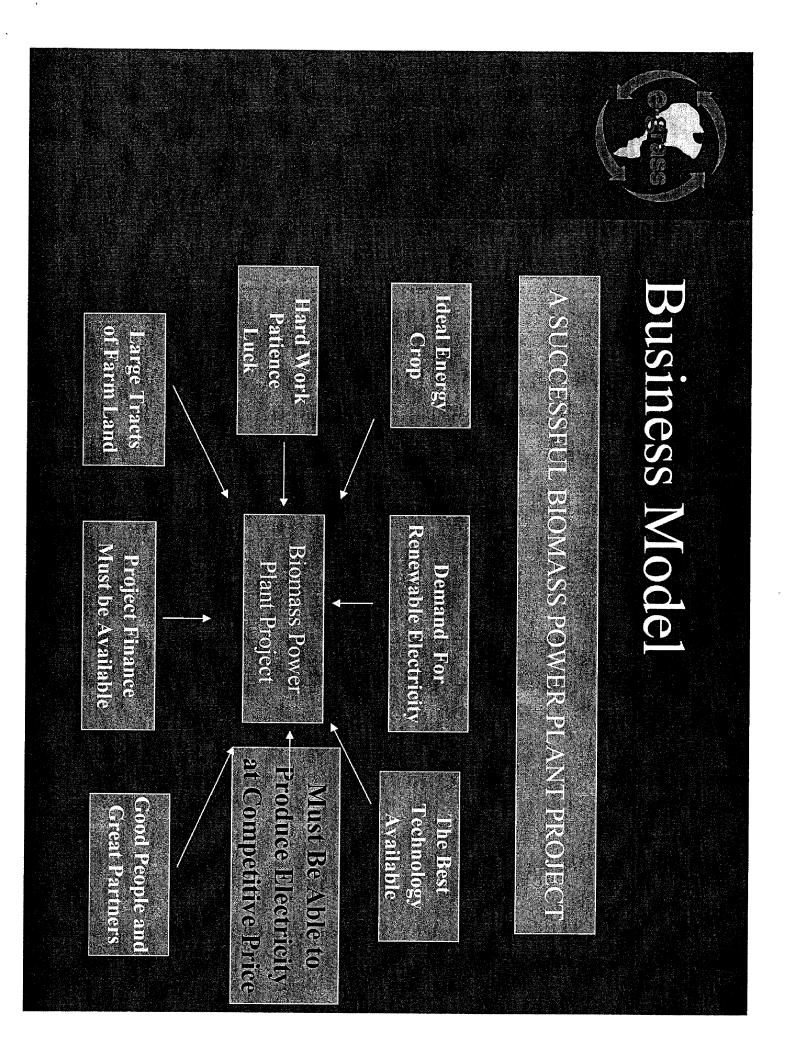
Technology Available You must Use the Best

furnace in a simple cycle process. Older technology consists of burning biomass in a

process for increased efficiency. as fuel in a gas turbine as part of a combined cycle the biomass into a gas or oil, you can use the gas or oil By using a process (fast pyrolysis) that can convert

oil and use it in a combined cycle process. technology that allows it to convert E-Grass into a bio-BIG has developed proprietary fast pyrolysis

renewable electricity at competitive prices. \geq Using this process enables BIG to be able to produce



You must be able to produce

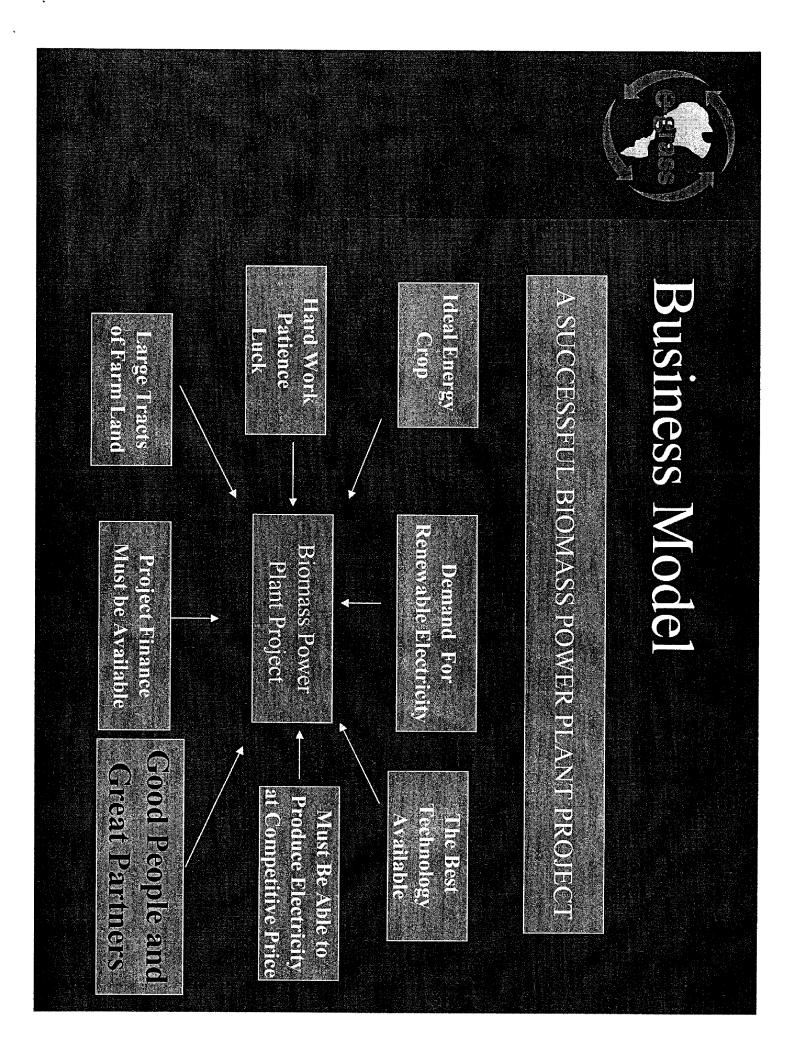
electricity at a competitive price

You must plant, grow and use the ideal energy crop. (BIG has E-Grass)

▼ The power plant must utilize a combined cycle of a combined cycle power plant) power plant. (BIG will utilize fast pyrolysis as part

Y The power plant must be located on or near the biomass farm to reduce fuel transportation costs.

▼ Recent increases in fossil fuel prices has resulted electricity at prices lower that electricity produced from fossil fuels in BIG being able to use biomass to produce



You must have good people

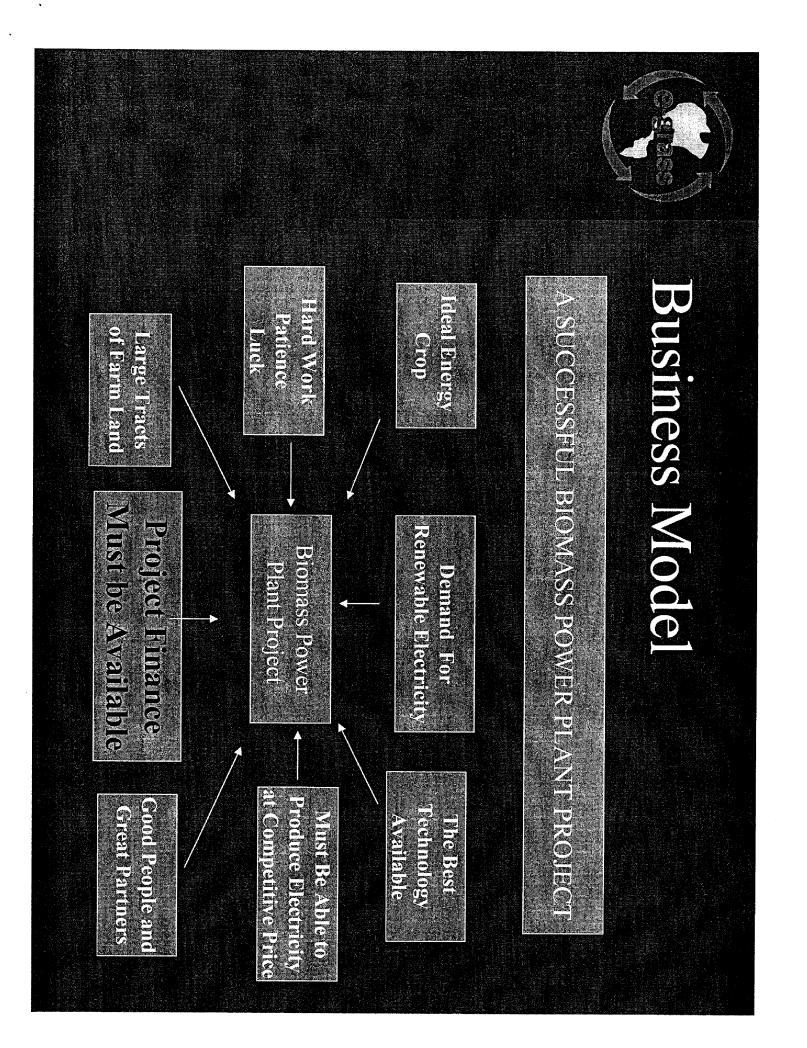
and great partners.

V Company People

of experience growing our energy crop, experienced top level management, etc. Engineers with proven track records, farm manager with years

✓ Partners

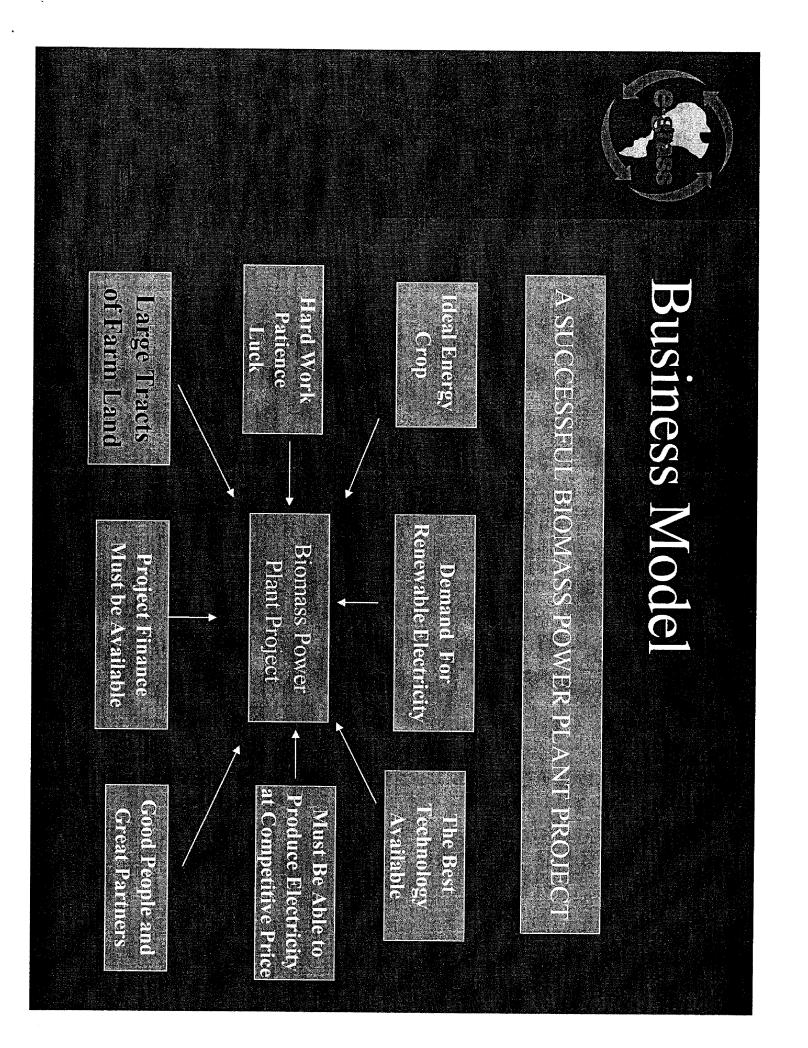
Assenderp Law Firm (licensing); Cummings & Barnard Troutman & Sanders Law Firm (corporate); Wachovia Bank GE (turbines); Willbros Engineering (EPC contractor); (project engineers); ECT Engineering (permits) limited partner); Ernst & Young (auditors); Young von



Project Finance Must Be Available

✓ Must have an EPC contractor that will Project must be able to stand on its own ➤ Must have a long-term PPA with a creditfinancially; i.e. income to debt service guarantee price and performance. worthy purchaser.

ratio.



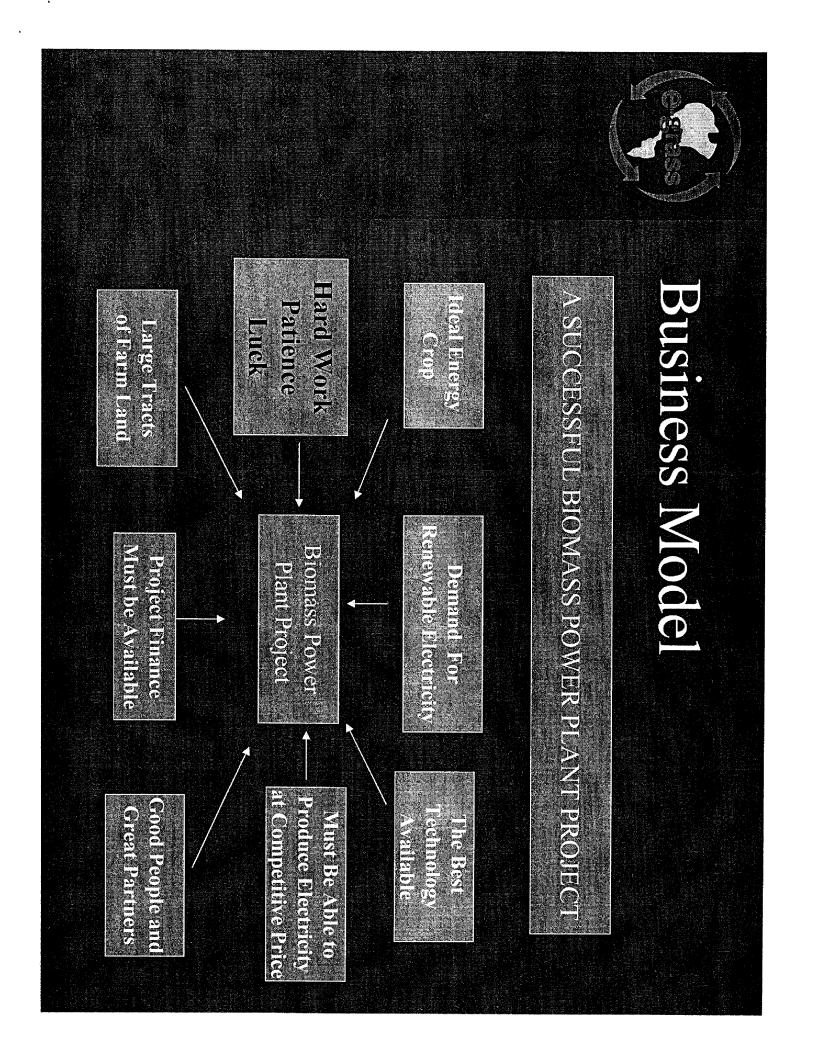
Large Tracts of Farm Land

Available

We need a 15-20,000 acre farm for our standard 120MW power plant:

We have tracts of farm land that meet this part of the US well as in Mexico & South requirement available to us in the southeastern America.

V These farms are available for purchase and/or lease and meet our farming requirements.



Hard Work, Patience & Luck

V This has been a 24/7 project for the past 5 years.

today to convert biomass into electricity. **V** We have developed the best system available

at a reasonable cost in an efficient manner. \vee We have identified the best energy crop in the world and developed a method of producing plantlets

an all-time high. fuels, the demand for renewable energy sources is at ➤ Due to the high cost and price volatility of fossil

▼ "Hard work is the mother of luck!"

Our Plans

▼ Develop 2-3 standard 120MW biomass projects (biomass farm with a power plant) in Florida over the next 4 years.

➤ Develop several projects in the northeastern bio-oil from our biomass farm(s) in Mexico as area of the US over the next 5-7 years using the fuel.

 \triangleleft Develop several projects over the next 5-7 biomass rather than foreign oil help them meet their energy needs with years in other counties around the world to

Biomass Investment Group, Inc. 1198 Gulf Breeze Parkway Suite 6 Gulf Breeze, Florida 32561

850-916-1300

Jim Wimberly, President For more information contact: Allen Sharpe, CEO

Kevin Mills, VP Process Operations

IPCC Technology Overview

6-Mar-06

Boness Investment Croup

e-grass

Co-Located Farm and Integrated Pyrolysis Combined Cycle

> IPCC Technology Overview Kevin J. Mills kevin@egrass.com (850) 916-1300



Discussion Outline

- Biomass Renewables Past Impediments
- Pyrolysis
- Process Overview
- Project Team
- Permitting & Licensing

Past Impediments



Standard Offer Contract

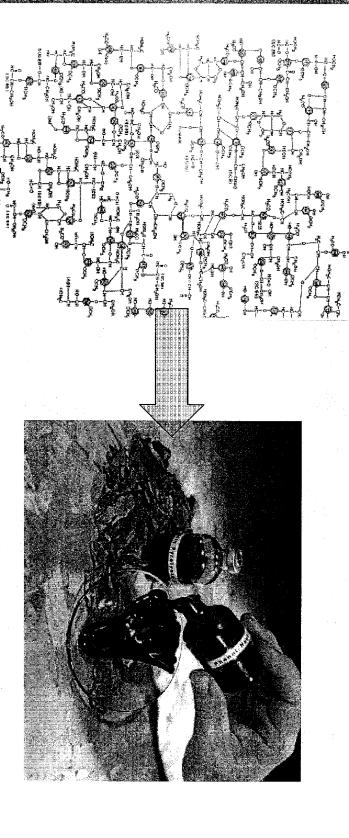
Unreliable Fuel Supply

Operational Issues

IPCC Technology Overview



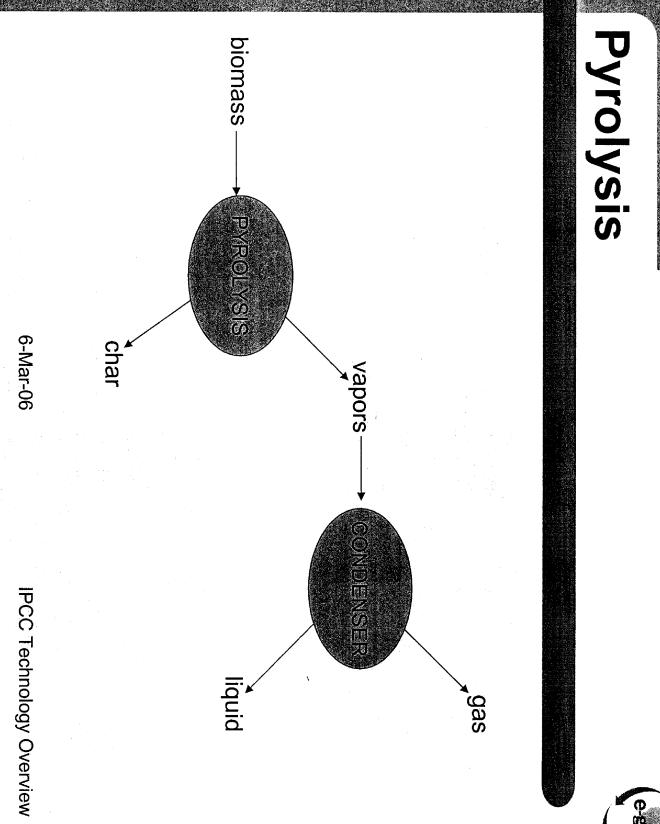
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Pyrolysis



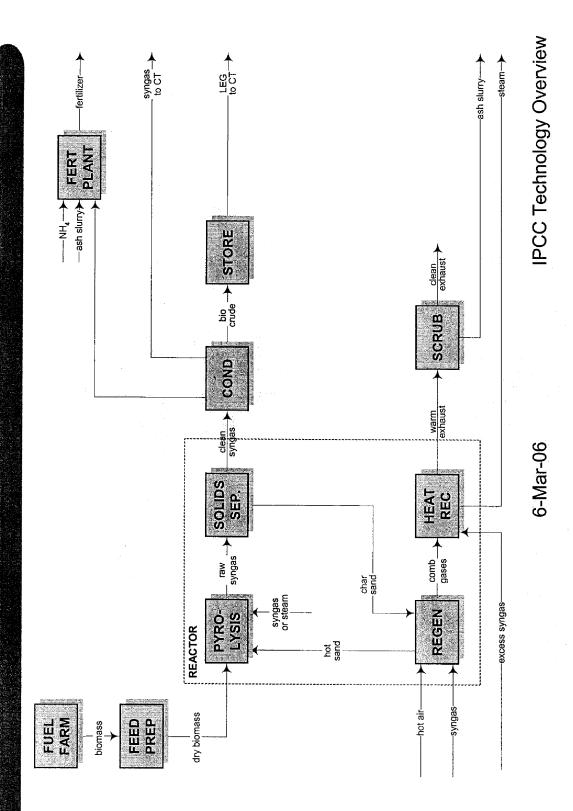
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Process Overview



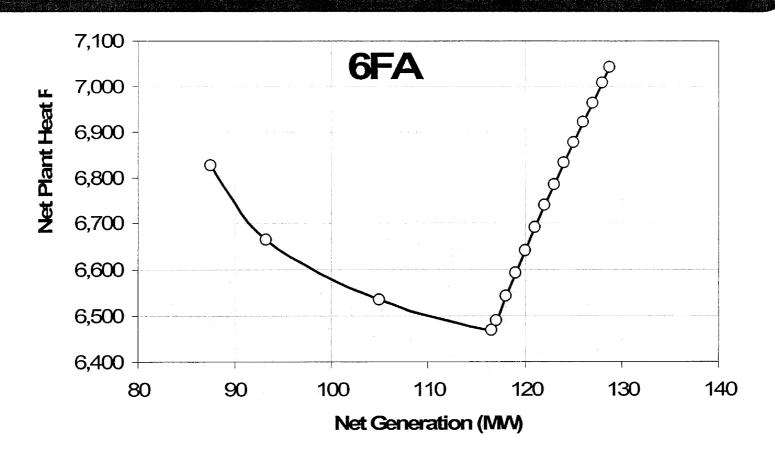
Project Team



- Willbros Engineering Inc. (EPC)
- Environmental Consulting & Technology (permitting)
- Young van Assenderp (siting & licensing)
- Fieldstone (financial advisors)
- PIC Mareubi Energy Group (O&M)
- Invensys (enterprise IT architects)
- Cummins & Barnard (owner's engineers)



Gas Turbine (GE PG6111FA)



(Siemens & Alstom offer competitive machines)

(°)

6-Mar-06

IPCC Technology Overview



Permitting Overview

- No Siting < 75 MW Steam Turbine & PPA</p>
- Requesting State QF Status
- Water Use within existing farm permits
- Storm Water Runoff within existing farm permits
- Air Construction 100 km from Class I
- ERP existing farm already has
- Zoning Change local is supportive



Criteria Air Emissions

UNCONTROLLED

| | NOx | 175 tpy |
|---|---------------------------|---------|
| • | SO2 | 390 tpy |
| • | Particulate | 190 tpy |
| | CO (15 ppmv uncontrolled) | 205 tpy |

6-Mar-06

VOC

CONTROLLED

SO2

 $\mathbf{f}(\mathbf{0})$

Synthetic Minor PSD Permit

195 tpy

120 tpy

IPCC Technology Overview

