



Community Power Corporation

Energy Systems for Sustainable Power



**A company with the right product,
in the right place, at the right time.**

Modular Biopower Systems for the 21st Century

BioMax 20 to 50 kW



BioMax 5
(Home Power)



Primary Products: BioMax 5 to BioMax 50

World's first, fully automated, environmentally friendly, small modular biopower systems, designed for high volume, low cost manufacture



Uses wide variety of woody residues to provide power and heat for:

- Rural communities (US and foreign)
- Homes (net-metering, prime / back-up)
- Small enterprises (use on-site residues)
- Government facilities

Stand-alone Gas Generator for:

- Crop & wood drying (sawmills, wood working)
- Back-up for propane and/or natural gas
- Building heat (workshops, green houses, etc.)
- Cooling/chilling (buildings, food & crop preservation, etc.)

CPC is in the Right Place, at the Right Time

**Catastrophic
Forest Fires**



Forest Thinning Resources

**War on
Terrorism**



Energy Independence

Environment



Green Energy

**Demand
for
BioMax
Systems**

BLACKOUT

AUG 2003

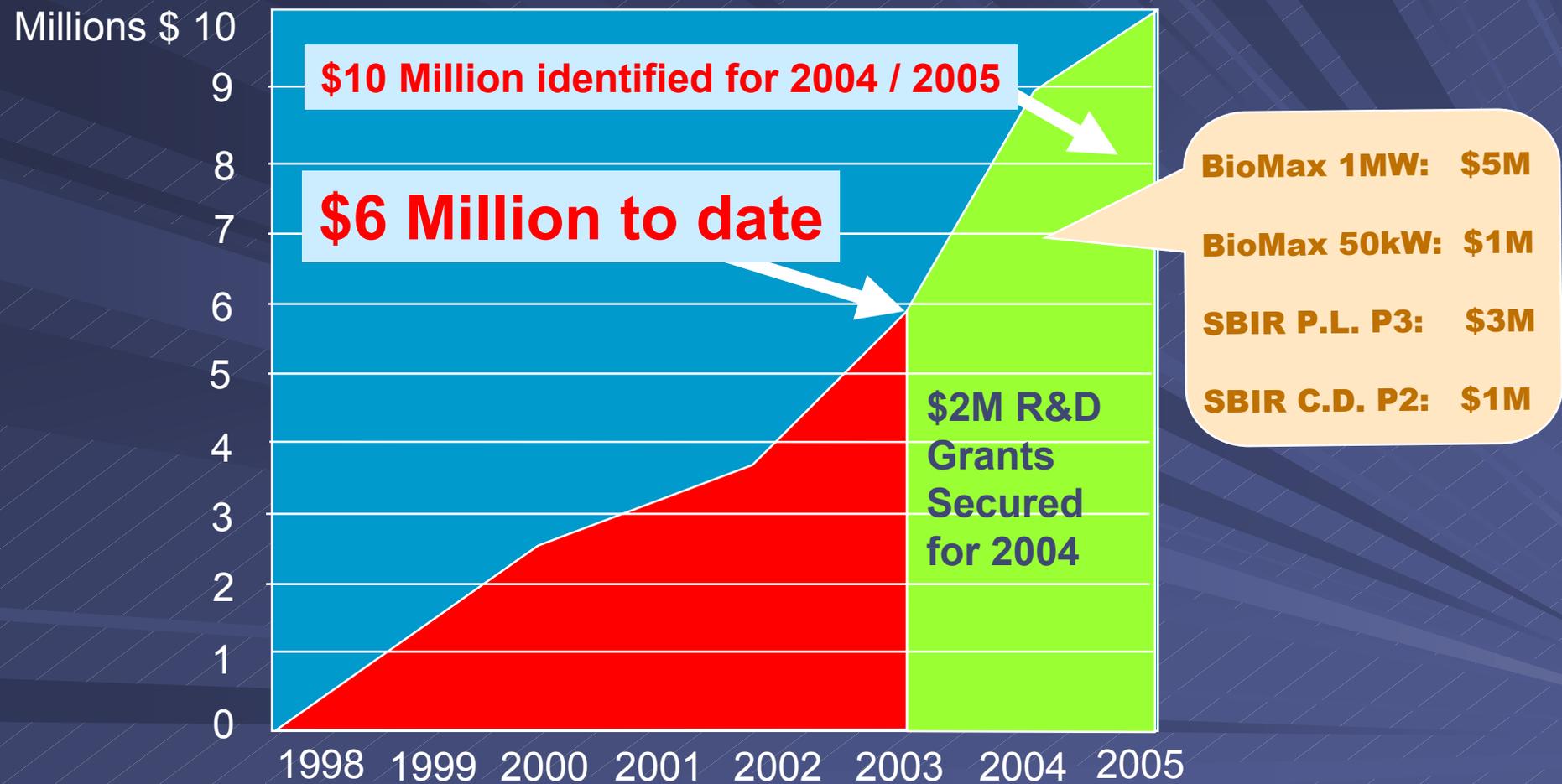


A BioMax will keep your lights on



CPC Investment in BioMax R&D

(BioMax 5, 25, 50, 1MW)

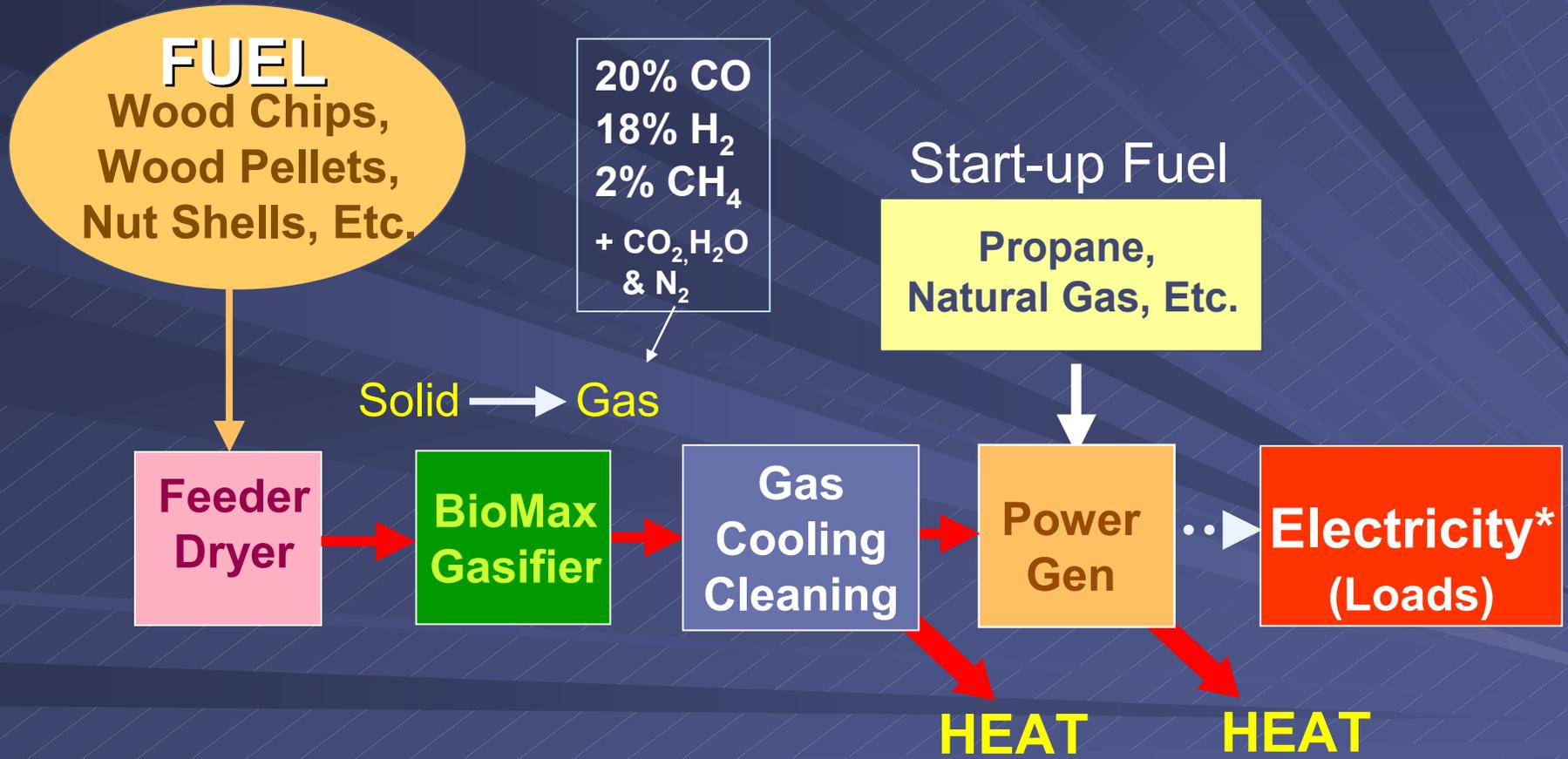


BioMax: Major Innovations and IP

- **World's first, fully automated small biopower systems**
- **Proprietary “Controllable / “Tar Free” gasifier**
- Proprietary gas clean-up system
- Grid ready
- **Proprietary, state-of-the-art, digital control system**
- **Meets 2003 emission standards**
- Unique modular architecture (flexible configurations)
- Integrated feedstock drier/feeder
- **Demonstrated ability to operate IC engines, Stirling engines, Solid Oxide Fuels Cells, Microturbines**
- Fuel flexible (any kind of wood or pellets, nut shells, etc.)
- CHP capable with >70% system efficiencies
- Designed for low cost, high volume manufacture
- **“Harry Home Owner” qualified for operation and maintenance**



BioMax: Gasification Converts Woody Materials to a Clean Fuel Gas for Heat, Power and Cooling



Wood Energy Conversion Efficiency: 80%
System CH&P Efficiency = +70%

* and/or shaft power

BioMax Fuels: Problem Woody Residues

(3 pounds per kilowatt-hour)



Wood-working Factory Residues



Coconut Residues - Philippines



Sawmill Residues



Forest Thinning Residues – USA (73M Acres)

CPC's BioMax: A Versatile Bioenergy Gas Platform

BioMax



Converts forest/ag residues to a gas capable of fueling a variety of power generation and heating/cooling technologies

RUNS:

IC Engines

Stirling
Engines

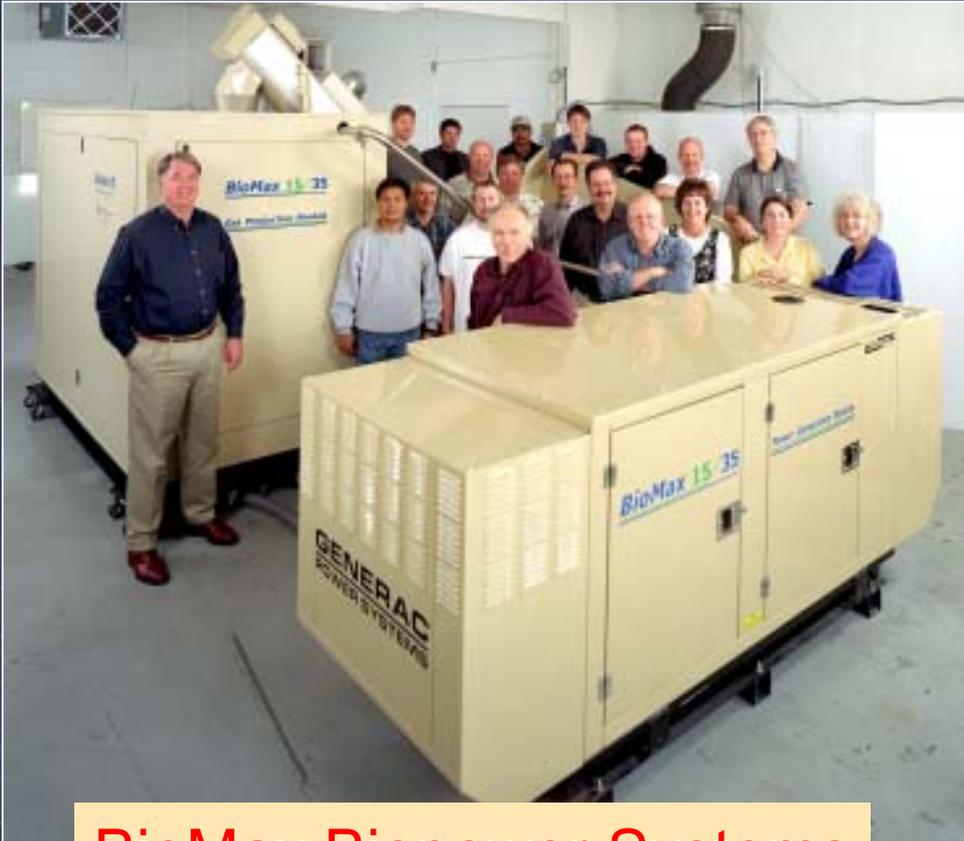
Fuel Cells

Microturbines

CHP
Driers/Chillers



CPC's BioMax Team



BioMax Biopower Systems

Founders/Owners
Art Lilley & Robb Walt

20 Years (each) Sr. Business
Management & Technology
Development for Westinghouse

Product Team – 18

Chief Scientist: Dr. Tom Reed (x-NREL)

Chief Engineer: Jim Diebold (x-NREL)

Product Development: King Browne

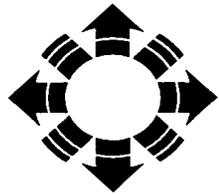
Senior Engineers: 2 (x-Westinghouse)

Engineers: 4

Technical staff: 6

Administrative: 3

Organizations Funding Development of BioMax



NREL (DOE)



Shell Renewables & Foundation



California Energy Commission



US FOREST SERVICE



Community Power Corporation

Energy Systems for Sustainable Power



Business Model

- Maintain advanced technology leadership position in Small Modular Biopower systems (5 to 100 kW)
- Use strategic partners to manufacture and distribute BioMax systems
- Sell to the US and global distributed generation/CHP markets where local and/or on-site biomass residues are readily available
 - US and State Forest Service
 - National and State Parks
 - State and Federal Agencies
 - Educational & Research Institutions
 - Wood-based enterprises
 - Utilities
 - Large commercial clients (rural factories)
 - Rural electrification/development projects



BioMax 15 to 50



BioMax 5



Community Power Corporation

Energy Systems for Sustainable Power



Near-Term Business & Sales Strategy

- Leverage substantial R&D funds: \$6M to date, \$10M in 2004-5
- Achieve further commercial sales with CPC's established customers: Forest Service, US Government agencies, large commercial clients, Indian Tribes, USAID, World Bank, state energy agencies, utilities, etc.
- Grow sales through established manufacturing / distribution partner (s)
- Secure an investment of \$2 million to accelerate commercialization of the BioMax 5 & 20 in 2005.

BioMax 15 to 50



BioMax 5
(Home Power)



Typical (Early) Customer Profile

- ✓ Federal/State agency, Wood-based enterprise, Rural Home, Utility, Educational/Research Institution
- ✓ On-site woody residue disposal problem (\$30 to >\$50/ton disposal)
- ✓ Easy, local access to forest thinnings or ag residues
- ✓ Needs 5 to 50 kW of utility-grade power
- ✓ Needs power and heat – up to 24 hours/day
- ✓ Current user of diesel, propane or NG fired gensets
- ✓ On-grid – but problem with outages
- ✓ Wants to be “energy independent”

BioMax Applications and Markets

Unelectrified Villages

Developing Countries



Customers

Utilities, ESCOs,
Governments,
Intn'l Development
and Finance Orgs.

Market

\$400 Billion Market

2 Billion people,
4 Million communities

Homes

USA, Foreign
Power & Heat



Home owners
Builders

\$20 Billion Market

500,000 homes in USA

Rural Enterprises

USA ,Global
On-site/local wood residues
Power & Heat



Owners
(with \$20M/year US
gov. support)

\$1.6 Billion Market

25,000 shops in USA

BioMax Applications and Markets

Customers

Market

Government Facilities

(USA, Foreign)



Government Agencies
(Federal, State, Local)

\$10 Billion Market
~100,000 facilities

Educational/Research Facilities



School Districts,
Universities,
Laboratories

\$6 Billion Market
~60,000 facilities

OEM Genset Manufacturers

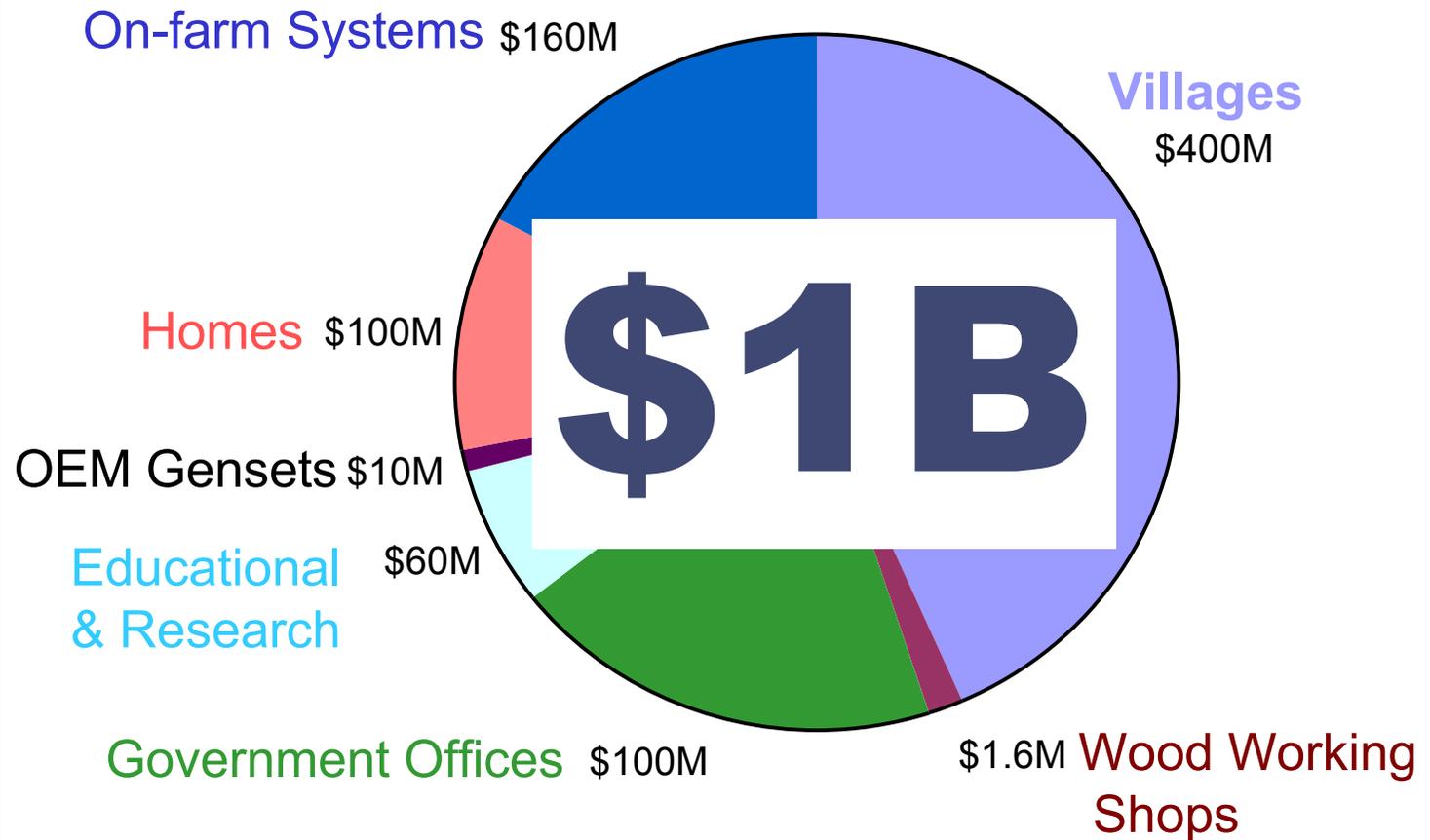
(Gas Production Modules)



OEM Companies

\$5 Billion Market
~100,000 <50kW
Gensets Sold in USA

Market Share Estimate for BioMax Systems



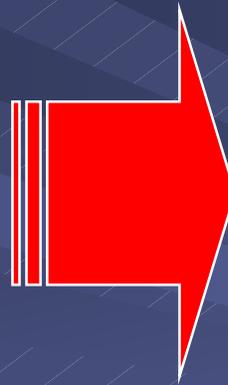
Total Market Scope: \$500 Billion

Est. Market Share: \$1 Billion

CPC's BioMax Customers

Sales '02: \$2M '03: \$3M

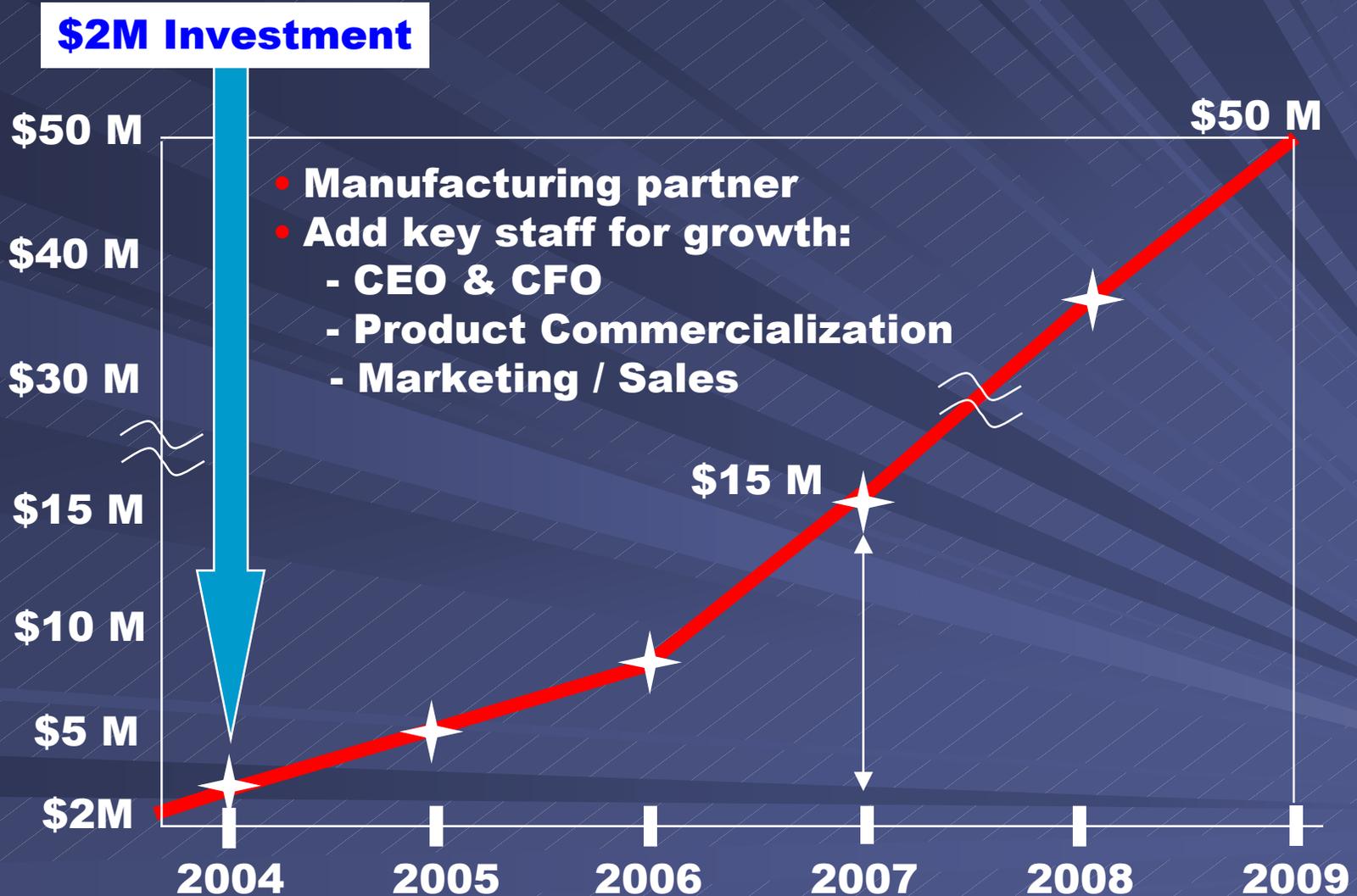
Shell
(Large Shoe Company)
Flex Energy
Mc Neil Technologies
Mississippi State University
California Energy Commission
US Forest Service
US Dept. of Energy
National Renewable Energy
Laboratory
USAID
World Bank



Sales 2004-6: \$15M

(Large Shoe Company)
US Forest Service
California Energy Commission
US Dept of Energy
USAID
NREL
Aspen Homes
State Agencies:
Forestry
Parks & Recreation
Transportation
Energy
Federal Agencies:
FEMP
BIA
FEMA
University/Research Institutions
Utilities
Home owners
Wood-based enterprises
Poultry farms

Sales Forecast – BioMax Systems

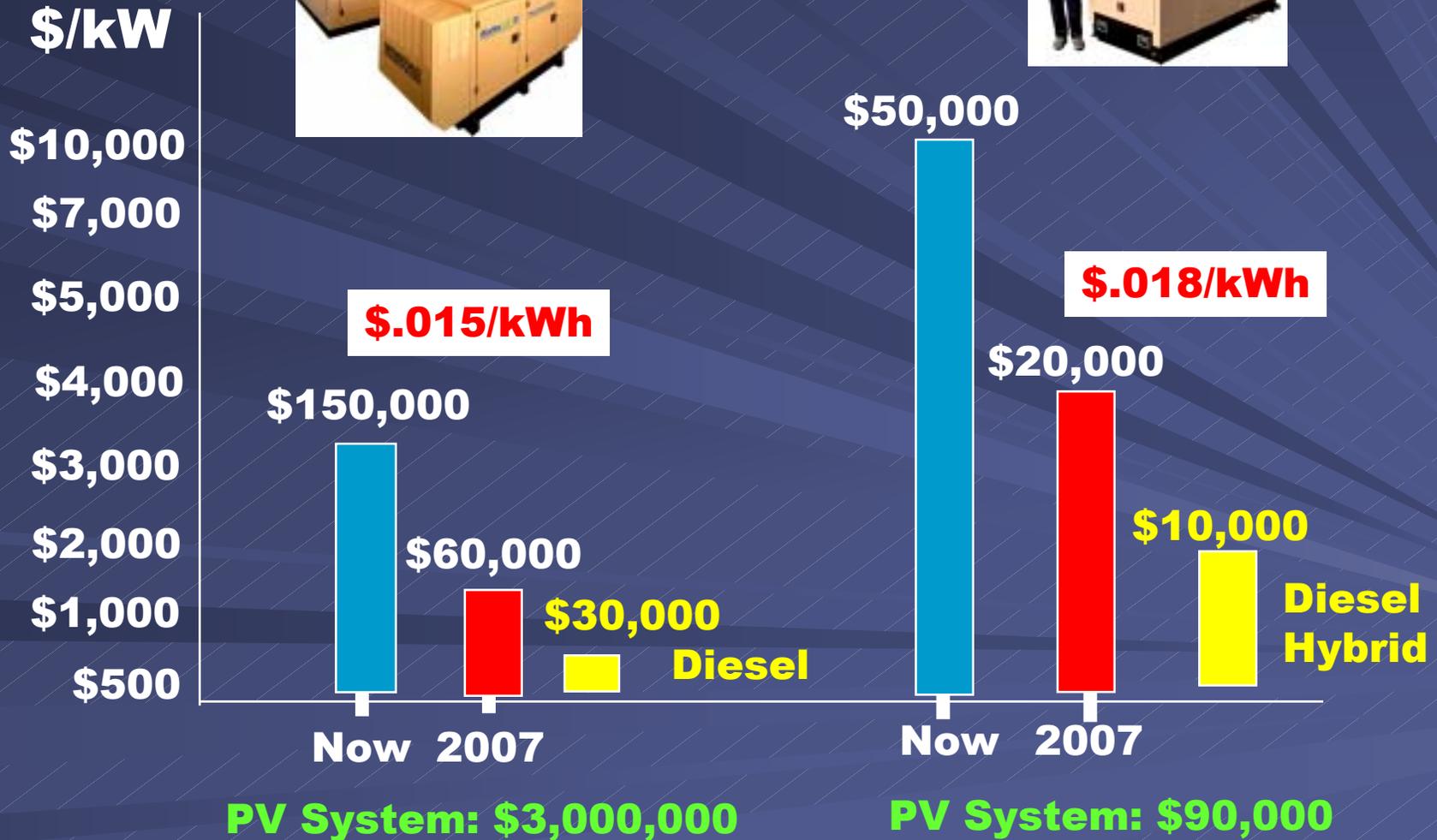


Cost of BioMax Systems

BioMax 50 kW

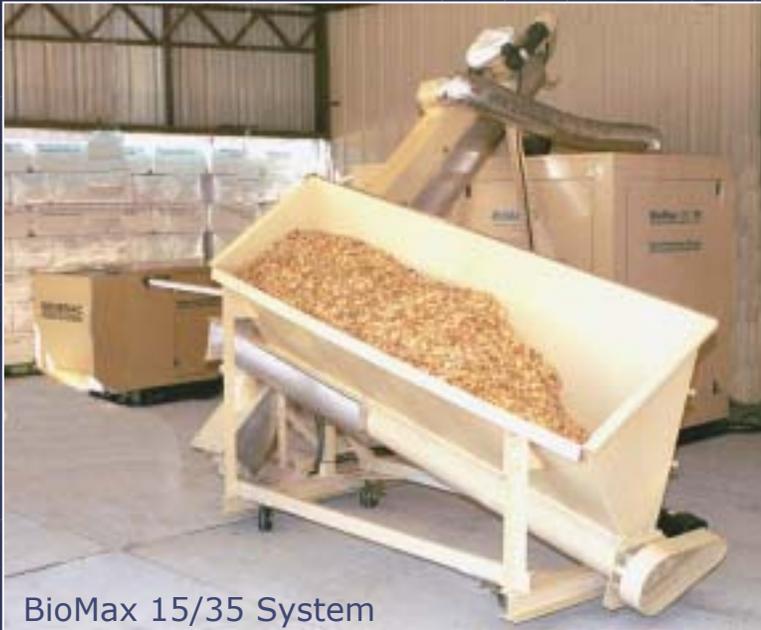


BioMax 5



BioMax 15/35 Installation

SBS Wood Shavings Company Ruidoso, New Mexico



BioMax 15/35 System



BioMax Control System
Dusty Duncan
CPC Engineer



Robb Walt (CPC), Mark Ruger (Generac)

BioMax 15/35 Installation

North Park High School

Walden, Colorado



Competitors

■ Conventional Fossil Fuel Gensets

- Cummins, Kohler, Caterpillar, Katolight, Onan, Generac, etc.

■ Emerging: Modular Power Systems

- Biopower: Ankur Power Gasifiers (India), Puhdas (Finland), Renova, (Mass.), KB Energy, (VT)
- Solar Power Systems: BP, Kyocera, Northern Power
- Micro-Gen: Marathon (WI), Polar Power, (CA)

What We Would Like From the Forum

- ▶ **One or more investors**
 - willing to invest up to \$2M in 2004
 - with skills to help CPC conduct a successful commercial product launch and grow the company
- ▶ **Leads to strategic partners for manufacturing, marketing, distribution, and sales**

Use of Investment Funds

■ Accelerate commercialization of BioMax Line

- Manufacturing partners (US and Foreign)
- Product packaging
- Marketing / Distribution / Sales

■ Add key staff to achieve growth

- Product commercialization
- Finance
- Achieve and manage growth

Good Reasons To Invest In CPC

- Leverage over \$6M in R&D to date. \$10M projected in 2004-5 (CPC is cash-neutral)
- CPC has long-established relationships with R&D funding organizations and major customers
- CPC has a leadership position in major markets for small biopower systems
- CPC has built a reputation for innovation and excellence
- CPC has a functional, pre-commercial, product line positioned for rapid commercialization
- CPC is a major player in emerging biopower technologies
- High potential for acquisition and/or successful public offering