Introduction to ENtrust

- Developer of end-user CHP projects
- Experience:
  - from a few hundred Kw to 1,000 MW
- Scope of Services:
  - Conceptual design
  - Environmental assessment & siting
  - Detail design
  - Financing
  - Construction
  - O&M

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Project Characteristics

- Niagara Mohawk electric service
- NYSEG gas transportation service
- Duel fuel boiler system
- Existing natural gas CHP system (grandfathered)
- Emergency back-up diesel generators

Project Requirements

- Grid Isolation (1st Hospital in NYS)
- Reliability
- Redundancy
  - Generation system
  - Distribution system
  - Fuel system
- Economics

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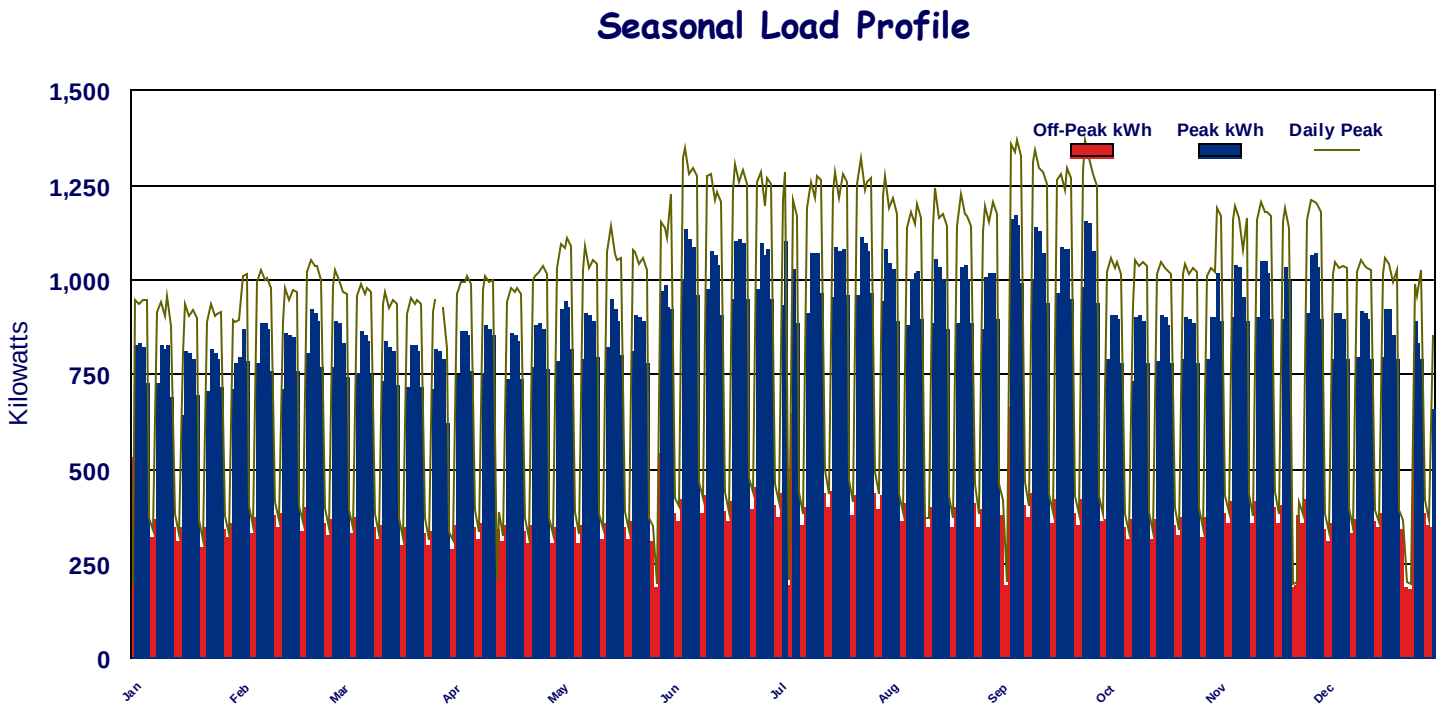
Project Requirements

- 1.25 MW Peak Electric Load



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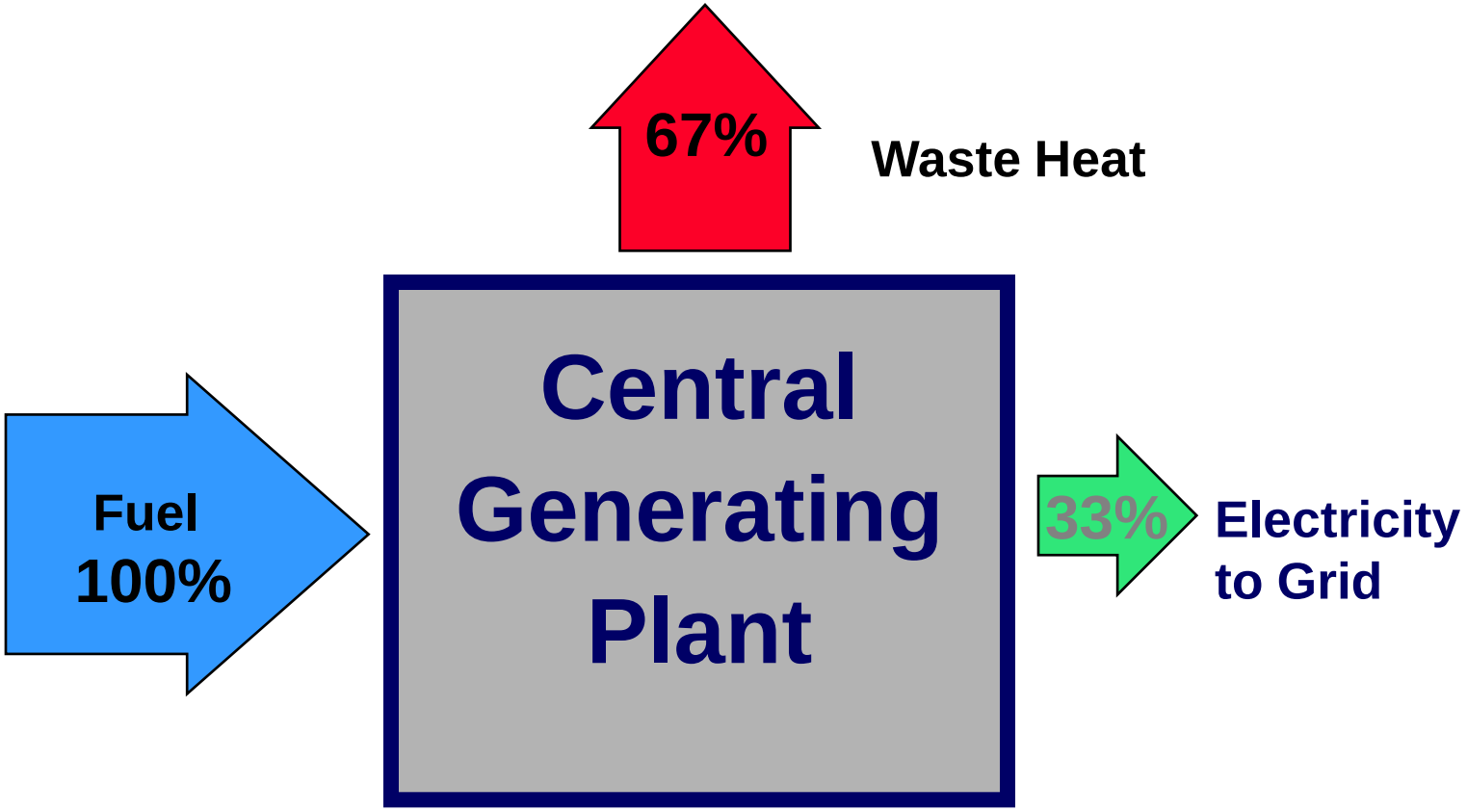
Project Configuration

- Primary System
  - 3 – 540 kWe Waukesha Natural Gas Fueled Prime Movers
  - 2 – 878,000 Btu/hr. VaporPhase Heat Recovery Steam Generators
  - 1 – 1,121,000 Btu/hr. VaporPhase Heat Recovery Steam Generator
- Secondary System
  - 3 – 500 kWe SDMO Diesel Fueled Prime Movers
- Parallel Feed Distribution System

Why CHP Works - Economically



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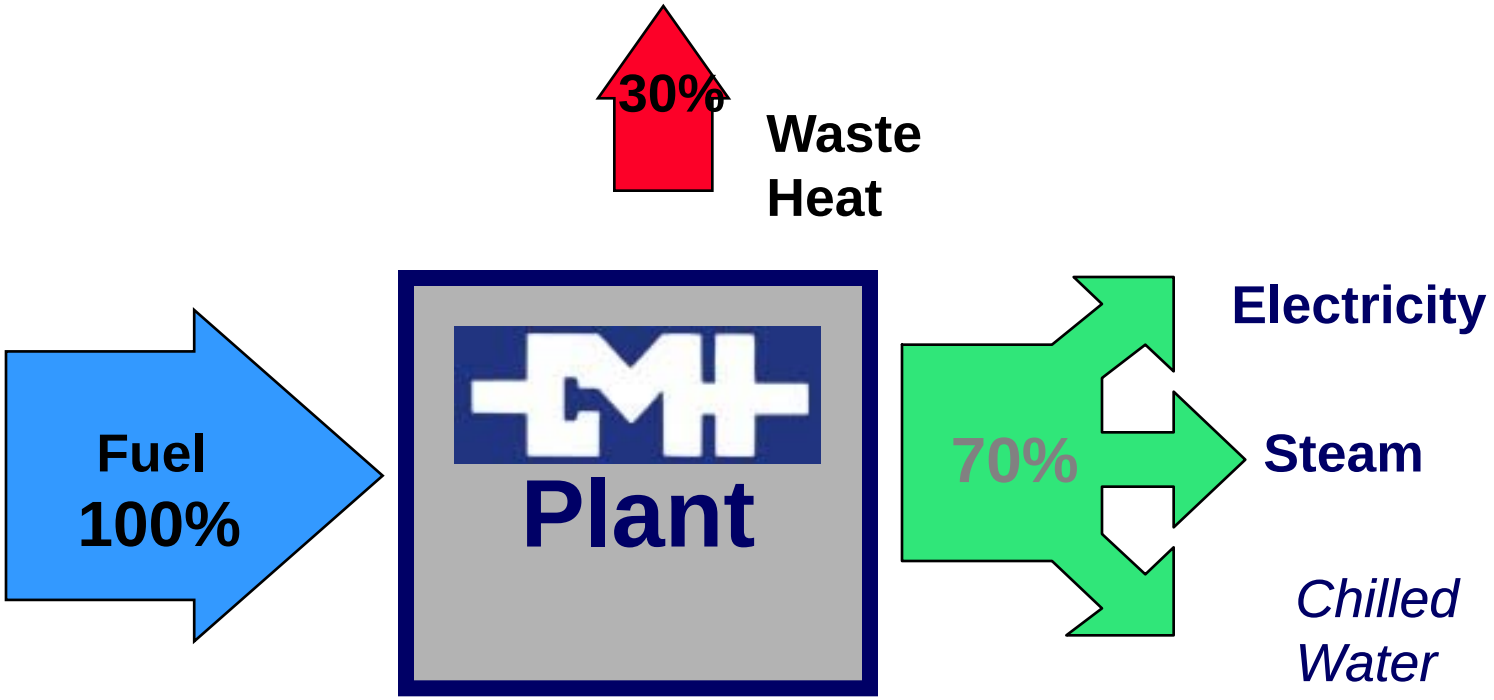
Why CHP Works - Economically



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System Efficiency

	kWh	mmBtu	Thermal Efficiency
Electric	7,000,000	23,900	29.8%
Exhaust & Jacket Water		33,800	29.1%
		Total Efficiency	71.9%

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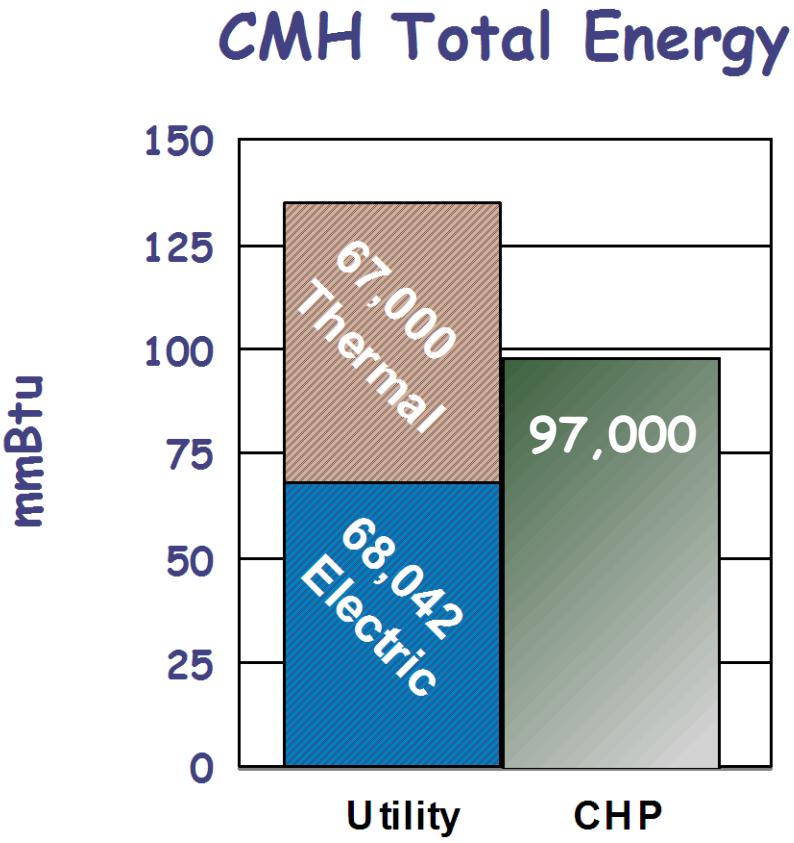
Energy Conservation



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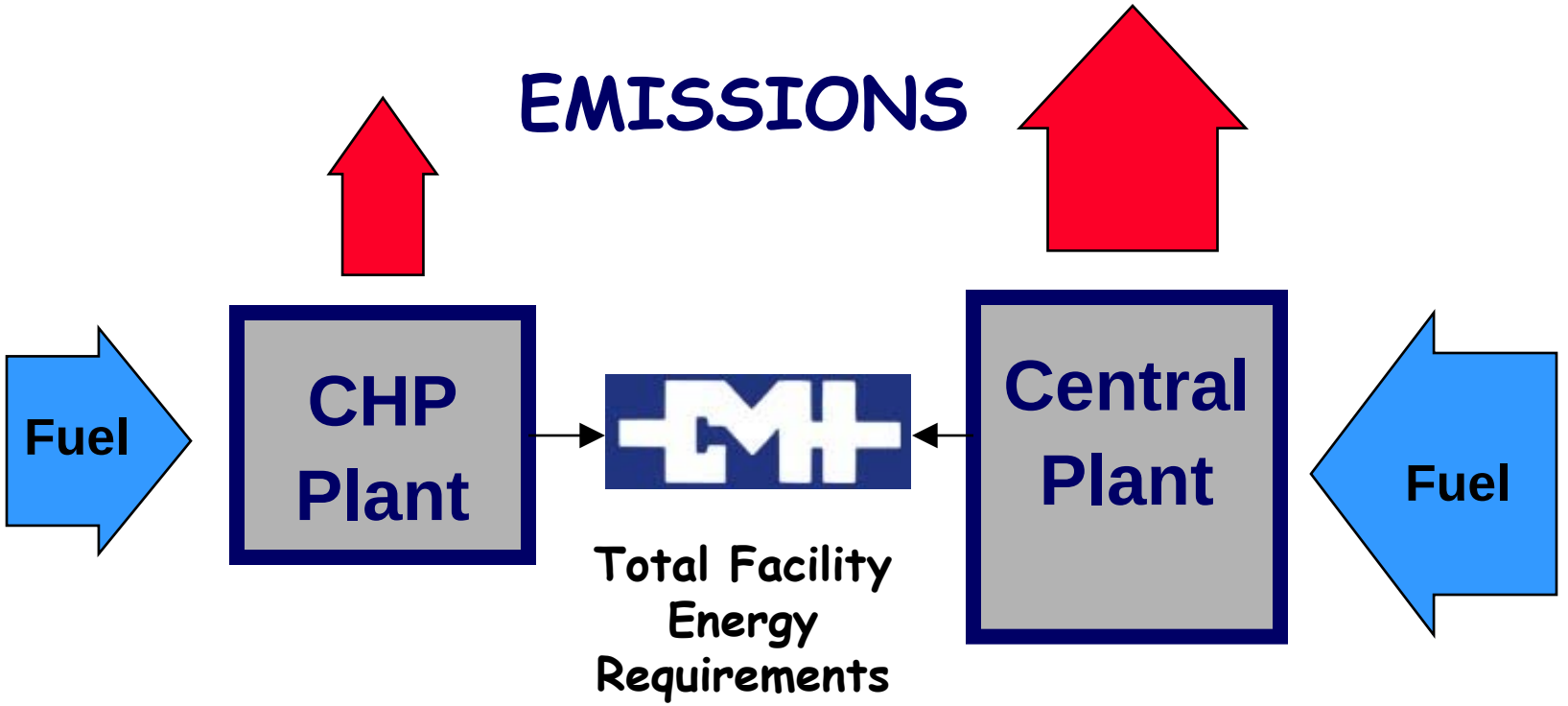
Why CHP Works - Environmentally



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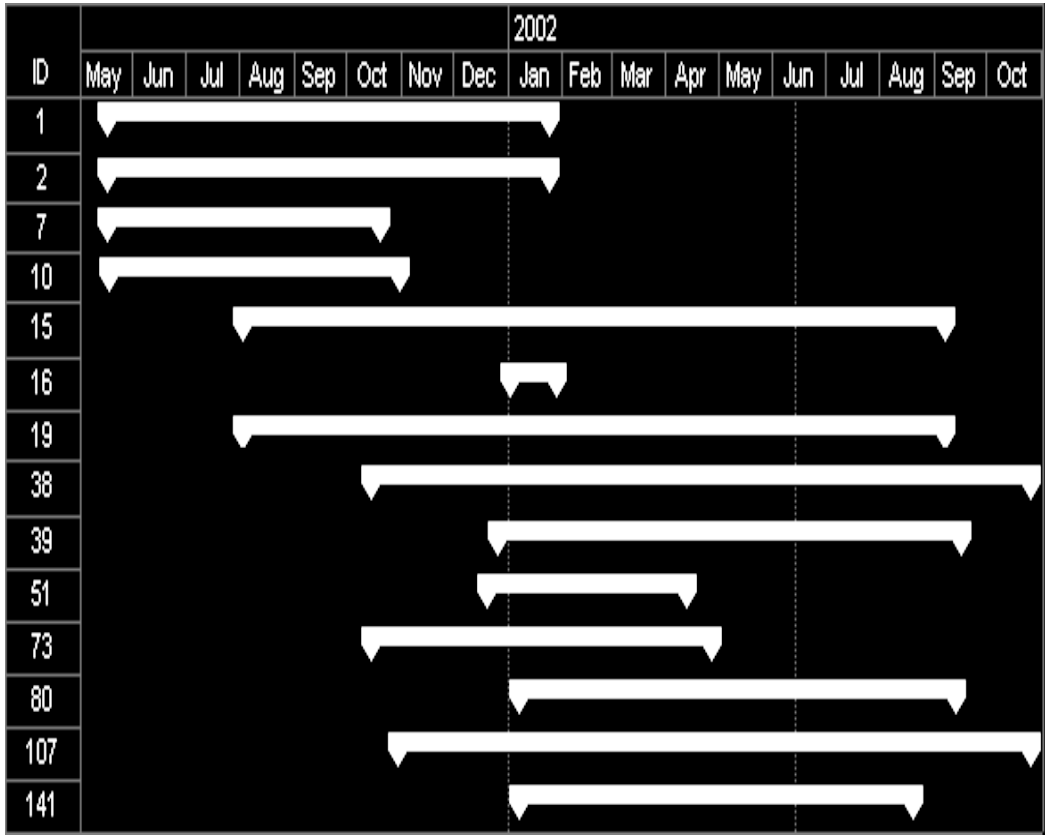
Project Schedule

- Project Finance & Admin.
- CMH Tasks
- Environmental
- ENtrust Tasks
- Distribution System
- Prelim Design
- Electric Installation -Distribution
- CHP System - COGEN
- Detail Design & As Built
- Building construction
- CHP Site Prep
- MERIT - Electric Installation
- KRAFT - Equipment Delivery & Test
- Installation & Commissioning



Energy Savings Through
Intelligent Alternatives

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When CHP Works Best

- Year round use for thermal energy
- High electric Load Factor
- No large demand spikes
- Utility as standby or supplemental service
- Top management committed to energy cost management

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Benefits of CHP

To CMH

- Lower Energy Cost
- Energy Price Stability
- Improved Reliability
- Improved Power Quality

To NYS

- Energy Conservation
- Reduced Emissions
- Reduced need for
  - New Generation
  - New Transmission

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