



# Enterprise-wide solutions that improve energy efficiency and productivity

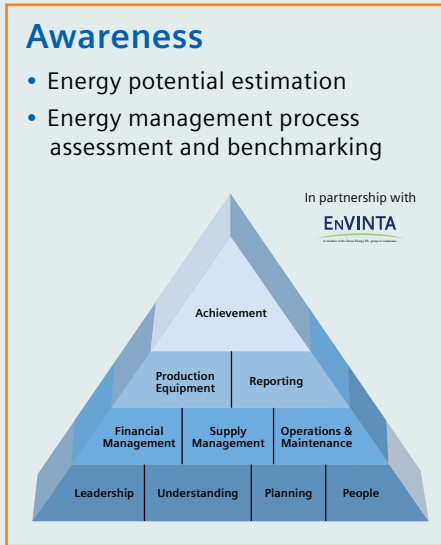
Energy & Environmental Management Solutions

Services for Industry

**SIEMENS**

# Achieve 5 to 40% sustained reductions in your energy consumption.

The Siemens systematic approach to improving your productivity and energy efficiency while reducing greenhouse gas emissions.



### Analysis

- Scoping audit
- Technical evaluation of opportunities

#	Project Description	kWh Savings	MMBTU Savings	Annual Cost Savings	Direct Install Costs	Project Development	Total Installed Cost
1	Energy Monitoring	641,399	4,445	\$ 96,108	\$ 98,438	\$ -	\$ 98,438
2	Boiler System Optimization	-	3,601	\$ 28,811	\$ 65,000	\$ 6,800	\$ 71,800
3	Hot Water Heat Recovery	-	6,116	\$ 40,989	\$ 178,313	\$ 19,400	\$ 197,713
4	Compressed Air Improvements	1,281,478	-	\$ 88,237	\$ 122,372	\$ 15,500	\$ 137,872
5	Eliminate Glycol Chiller	118,357	-	\$ 9,150	\$ 10,375	\$ 5,150	\$ 25,525
6	CHW System Optimization	237,611	-	\$ 16,473	\$ 76,250	\$ 12,300	\$ 88,550
7	Convert Various DX Systems to a Central DX	327,351	-	\$ 35,540	\$ 199,500	\$ 18,800	\$ 218,300
8	Convert to Chemical Free Water Treatment	-	-	\$ 11,418	\$ 55,313	\$ 4,800	\$ 66,113
9	Install Building Management System	426,981	-	\$ 29,400	\$ 83,500	\$ 12,200	\$ 95,700
10	Oven Optimization	491,784	37,550	\$ 286,992	\$ 282,075	\$ 28,600	\$ 310,675
11	Energy Optimized Controllers on PS Blowers	187,228	-	\$ 12,892	\$ 29,898	\$ -	\$ 29,898
12	Motor Management Data Base	259,442	-	\$ 17,864	\$ 8,750	\$ 3,600	\$ 12,350
<b>Totals for Site</b>		<b>3,971,632</b>	<b>51,713</b>	<b>\$ 672,881</b>	<b>\$ 1,218,783</b>	<b>\$ 128,150</b>	<b>\$ 1,346,933</b>
Savings (%) of total annual energy bill		12%	23%	18%			

Rough order of magnitude

Businesses operate in a world where energy prices are sensitive to political instabilities, environmental concerns and changing supply and demand. Energy prices can quickly rise, adversely affecting business and profit margins. Siemens offers the resources, expertise and technology to drive your energy consumption down while improving productivity.

### Your benefits with Siemens Energy & Environmental Management Solutions:

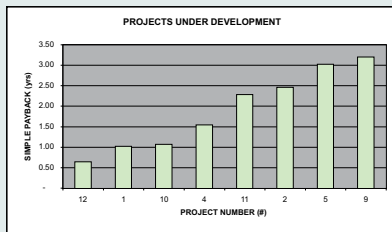
- Comprehensive solutions for all your energy sources including water
- 1 to 7% improvement in productivity
- Up to 40% sustained reductions in energy consumption per unit produced
- Increased profit margins
- Reduction in greenhouse gas emissions



Siemens offers a comprehensive line of products and solutions based on our TIA and TIP to support your energy efficiency needs. These include energy monitoring and targeting systems, intelligent demand control, variable speed drives (including regenerative), high-efficiency motors, automation, switchgear, meters, smart MCCs, process controls and more.

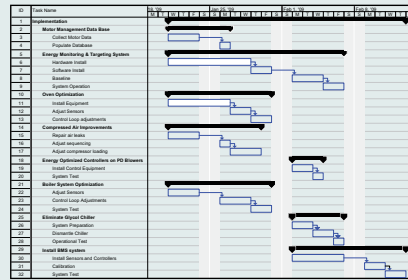
## Project Development

- Thorough engineering analysis
- Simple payback, internal rate of return and net present value calculations



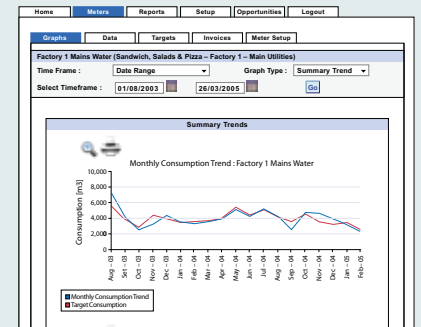
## Implementation

- On-time solution delivery
- Complete project execution



## Sustainability

- Verification
- Tracking measures
- Targeting new measures



### Solutions include:

- Totally Integrated Automation (TIA)
- Totally Integrated Power (TIP)
- Energy monitoring and targeting system
- Electrical power factor/quality
- Intelligent demand control/response
- Process control improvements
- Variable speed drive applications
- Compressed air optimization
- HVAC and controls
- Water treatment systems
- Lighting retrofits and controls

### Your advantage with Siemens:

- Proven systematic and holistic approach
- Experienced partner – from consulting to project execution
- In-depth industry experience and process knowledge
- Methodology based on continuous improvement including benchmarking tools
- Comprehensive range of products and solutions
- Flexible project financing
- Assistance with rebate filing



**More information:**

Siemens Energy & Automation, Inc.  
Industry Sector  
3333 Old Milton Parkway  
Alpharetta, GA 30005

**1-800-964-4114**

[info.sea@siemens.com](mailto:info.sea@siemens.com)

©2009 Siemens Energy & Automation, Inc.  
Siemens is a registered trademark of Siemens AG.  
Product names mentioned may be trademarks  
or registered trademarks of their respective  
companies. Specifications are subject to change  
without notice.

These brochures contain only general  
descriptions or performance features, which  
do not always apply in the manner described  
in concrete application situations or may  
change as the products undergo further  
development. Performance features are valid  
only if they are formally agreed upon when  
the contract is closed.

WEBR-00228-0309 3.5M0309PS