

Climate Change: Barriers & Benefits on Our Economy

Joe Piedimonte

LEED Accredited Professional

Existing Buildings & New Construction

LEED = Leadership in Energy & Environmental Design

USGBC = United States Green Building Council



AUSONIO
INCORPORATED

Design+Build Specialists

Climate Change Policy

What does this mean to contractors?

- **Today:** Vehicles & Equipment Emissions



AUSONIO
INCORPORATED

Design+Build Specialists

Climate Change Policy

What does this mean to contractors?

- **Tomorrow: Green Buildings**
 - What will drive demand?
 - What are the barriers?
 - What is the economic benefit?



AUSONIO
INCORPORATED

Design+Build Specialists

Drivers for Green Building

- Local Government's ICLEI Climate Action Plan: Urban Environmental Accord
 - Standards for all new buildings
 - Standards for government buildings
- The AIA (American Institute of Architects) has mandated carbon neutral buildings by 2030



SINCE 1950

AUSONIO
INCORPORATED

Design+Build Specialists

USGBC LEED

New Construction (NC)

	» Points	Description of Level
• Certified	26-32	Minimal investment in green design, materials & administration
• Silver	33-38	A governmental standard
• Gold	39-51	Innovative with renewable energy
• Platinum	52-69	An educational showcase of green technology and innovation



AUSONIO
INCORPORATED

Design+Build Specialists

How are points generated?

- 75% of Points Needed for Certified Level
 - Federal, state and local standards
 - Readily available building materials
 - Site location
- The Remaining 25% or the next level
 - Innovative design
 - Resourceful use of materials
 - Energy management



AUSONIO
INCORPORATED

Design+Build Specialists

Chartwell School

LEED Platinum

- Innovation:
 - Slag Replacing Cement
- Resourcefulness:
 - Construction Waste Diversion



AUSONIO
INCORPORATED

Design+Build Specialists

What are the Barriers?

- **Green Building Knowledge & Experience**
 - 37 LEED AP's in AMBAG cities
 - 2 Certified Projects (Chartwell & Marine Lab)
 - 15 Registered Projects
- **Focus on New Construction**
 - Existing Buildings (EB) has only 2 registered projects: Castroville & Santa Cruz
 - Certified Gold Project: Moss Landing Marine Lab



AUSONIO
INCORPORATED

Design+Build Specialists

LEED EB – Ausonio Building

- Office example:
 - 16-T12 @ 5.1 Kwh/day
 - 3-T5 @ 1.3 Kwh/day
- Savings
 - Equal to a car off the road for 4 months
 - Wasting less on utilities (\$300 per year)
 - Saving on maintenance
- Overall impact 6 cars off the road each year



AUSONIO
INCORPORATED

Design+Build Specialists

Green Economic Benefits

- Export of talent and technology
 - Require LEED AP's and/or experience
 - Create incentives for Green Building
- Increased Property Value
- A better place to live and work
 - Existing Buildings are a great place to start



AUSONIO
INCORPORATED

Design+Build Specialists

LEED EB – Ausonio Building

- Programs 22 of the 32 points of Certified
 - Recycling: 1 lb. paper/day = 1 car off the road
 - Green purchasing: recycled products, energy efficient items



AUSONIO
INCORPORATED

Design+Build Specialists