



SUSTAINABILITY

ENERGY | ENVIRONMENT | ECONOMICS



Orange
County
Convention
Center

Have you
been?



Alexa Stone, LEED AP O+M - Jeff Benavides, LEED GA - September 17, 2010



Why do 43M people come to Orlando every year?

Most (78%) come for fun!

Business - a different profile:

- 9.3 million visitors come for business
- 57% come for conventions or seminars
- From: DC, LA, Atlanta, NY & Dallas Ft. Worth
- 3rd most visited convention destination in the US



Why?



Massive capacity means the biggest shows!



PGA

2010 MERCHANDISE SHOW



SURF
EXPO

Orange County Convention Center



- Department of Orange County Government
- Staffed by County employees and contractors
- Funded by rental of exhibit space
- \$1B+ in economic impact to Central Florida annually

Campus Overview



- Total Site Area: 350 Acres
- Total Floor Area: > 7M sq. ft.
- 8,300 parking spaces
- 3 pedestrian bridges to nearby hotels

How can a massive structure be sustainable?

- Top Level Support
- Green Advocates on Staff
- Green Policies



Tom Ackert
Executive VP
OCCC

Solar Power



- \$2.5 million grant toward a \$8.8M project
 - Partnership with EPD, FSEC & OUC
- 1 MW PV array & 4, 10 KW experimental systems

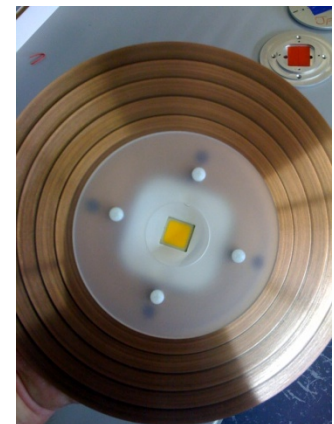
Climate Change Education Center

- View solar energy production
- Community Education
- Showcase Green Technologies



LED Pilot Testing & Conversion

HID	LED	#	Hours	Unit Watts Saved	Annual Watts Saved	Dollar Savings	Product
458W	72W	100	24	386W	337,100 kWh	\$33,710	Albeo
290W	113W	100	24	177W	154,600 kWh	\$15,460	Silescent



Leader in Waste Diversion



Centerplate

- 65% of waste stream diverted
- 100% of grease and oil recycled
- Viable foods donated
- 100% biodegradable products
- Saved \$196,744 in disposal fees
- Received \$86,595 in recycling



ISO14001 certification for EMS – the first convention center in the U.S.

Alternative Transportation



Pedicabs / bike taxis



Hydrogen powered vans



EV charging stations coming soon!



Electric Golf Carts



Segways

14 LEED Certified Convention Centers

	City	State	Rating System	Level
ARIA Convention Center and Showroom	Las Vegas	NV	LEED NC 2.2	Gold
Colorado Convention Center	Denver	CO	LEED EB O&M	Certified
Dallas Convention Center	Dallas	TX	LEED EB 2.0	Silver
David L. Lawrence Convention Center	Pittsburgh	PA	LEED NC 2.0	Gold
Kansas Cty Convention Ctr Grand Ballroom	Kansas City	MO	LEED NC 2.1	Silver
Los Angeles Convention Center	Los Angeles	CA	LEED EB 2.0	Certified
Oregon Convention Center	Portland	OR	LEED EB 2.0	Silver
Phoenix Convention Center	Phoenix	AZ	LEED NC 2.1	Silver
Raleigh Convention Center	Raleigh	NC	LEED NC 2.1	Silver
McCormick Place West Building	Chicago	IL	LEED NC 2.2	Certified
Spokane Convention Center Expansion	Spokane	WA	LEED NC 2.1	Silver
The Oregon Convention Center	Portland	OR	LEED EB	Certified
Virginia Beach Convention Center	Virginia Beach	VA	LEED EB 2.0	Gold

30 LEED Registered Convention Centers	City	State	System
Austin Convention Center Dept	Austin	TX	LEED EB 2.0
Broward County Convention Center	Fort Lauderdale	FL	LEED EB O&M
Cleveland Medical Mart Convention Center	Cleveland	OH	LEED-NC v2009
David L Lawrence Convention Center	Pittsburgh	PA	LEED-EB:OM v2009
Gaylord National Resort and Convention C	National Harbor	MD	LEED-EB:OM v2009
Gaylord Texan Resort and Convention Cent	Grapevine	TX	LEED EB O&M
Greater Columbus Convention Center North	Columbus	OH	LEED-EB:OM v2009
Greater Columbus Convention Center North	Columbus	OH	LEED EB O&M
Guiyang International Convention Center	Guiyang		LEED NC 2.2
Hawaii Convention Center	Honolulu	HI	LEED EB O&M
Jacob Javits Convention Center	New York	NY	LEED NC 2.2
Las Cruces Convention Center	Las Cruces	NM	LEED NC 2.2
Monroeville Convention Center	Monroeville	PA	LEED NC 2.2
Mumbai Conventi Center	Mumbai		LEED-NC v2009
Mumbai Conventi Center	Mumbai		LEED NC 2.2
Old Convention Center Site Redevelopment	Washington	DC	LEED ND 1.0 Pilots Only
PASADENA CONVENTION CENTER	PASADENA	CA	LEED NC 2.1
Palmdale Convention Center	Palmdale	CA	LEED NC 2.2
Puerto Rico Convention Center Facilities	San Juan	PR	LEED EB 2.0
San Jose Convention Center Expansion	San Jose	CA	LEED NC 2.2
Sanford Convention Center	Sanford	FL	LEED NC 2.2
SeaGate Convention Centre	Toledo	OH	LEED EB 2.0
Sharonville Convention Center Expansion	Cincinnati	OH	LEED NC 2.2
Sheraton Puerto Rico Convention Center	Santurce	PR	LEED NC 2.2
St Charles Convention Center	St Charles	MO	LEED EB 2.0
The Greater Columbus Convention Center	Columbus	OH	LEED EB 2.0
Tucson Hotel & Convention Center	Tucson	AZ	LEED NC 2.2
Utah County Convention Center	Provo	UT	LEED-NC v2009
WA State Convention & Trade Center	Seattle	WA	LEED-EB:OM v2009
Wilmington Convention Center	Wilmington	NC	LEED NC 2.2

LEED Planning Process

- Began research on basic LEED concepts and agreed to pursue LEED certification in 2009
- Hired *eco*Preserve as consultants Spring of 2010
- Joined the US Green Building Council
- Registered for LEED certification
- Initiated LEED assessment process
- Expected 2 year process from registration to certification





What's your next step?

- Learn about ENERGY STAR for buildings
- Voluntary now, a requirement soon



5 steps to your ENERGY STAR Label

- 1) Go to www.energystar.gov → Buildings & Plants
- 2) Go to Portfolio Manager & register
- 3) Collect & enter information to receive rating
- 4) Set energy targets (75 or better will earn your label)
- 5) Proudly display your Energy Star Plaque!





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Come see us!

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