

# Staples Treasure Hunt Coppell Fulfillment Centers



August 21, 2011  
**Energy Reduction Kickoff**



- Kick Off by Rob Roest & Bob Valair
- Participant Introductions
- Review Today's Agenda

# Staples Coppel FC Building Details



- Building is 376,000 square feet
- Built in 1990
- 158 Staples Associates
- Operations is 123 hours per week
- 100% cooled and heated
- Additional RTU's Added

# Quill Coppel FC Building Details



- Building is 245,000 square feet
- Built in 1990
- 104 Staples Associates
- Operations is 90 hours per week
- 100% cooled and heated



# Safety & Housekeeping Notes



No open toe shoes allowed

Dress comfortably because of warm warehouse

Everyone will be escorted by Staples Associate.



# Introductions



- Your Name
- Your Companies Business
- Your Role With Staples
- Number Of Years With Staples or Supporting Them

# Agenda



- Staples and Quill Facility Welcome and Building Details
- Staples NAD Energy Conservation Program
- Orlando Treasure Hunt Video
- Current Cost and Team Structure
- Energy Reduction Treasure Hunt Process
- Questions & Answers



# NAD Energy Conservation Program



*“the greenest kWh is the one you conserve”*

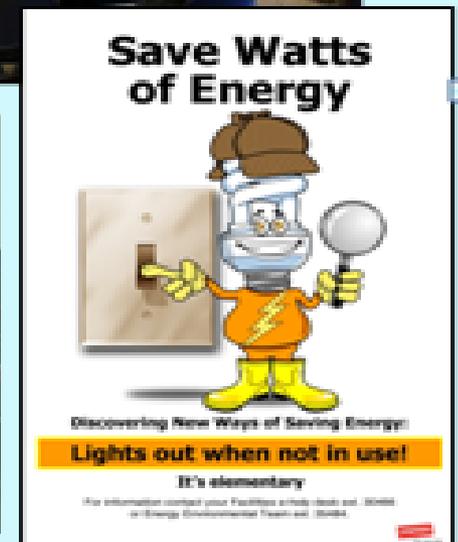


# NAD 2011 Program Highlights



## Quick Wins...

- Included electricity awareness in Associate Town Hall meetings
- Turned off all warehouse & office lights / equipment when not used
- Posted local energy consumption
- Brought in Wattson for FUN!

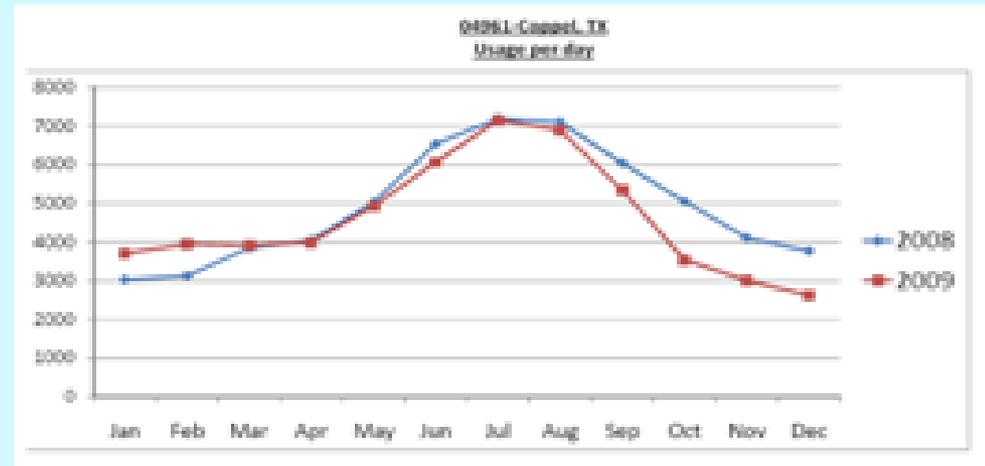


# NAD 2011 Program Highlights



## Improvements Made...

- Provided management with usage data and reports.
- Installed motion sensors in all common areas for auto on/off.
- Updated dock door bulbs from conventional Halogen to LED.
- Used programmable thermostats to optimize the building HVAC.



# Pilot Sites Saw Big Results



## Aurora Fulfillment Center

**25%+ Savings!**

- Employee meetings
- *Excess lighting off*
- *Relocated Switches*
- *Thermostats*
- *Conveyor*

Site	Aurora, CO - 3
Type	Usage per day

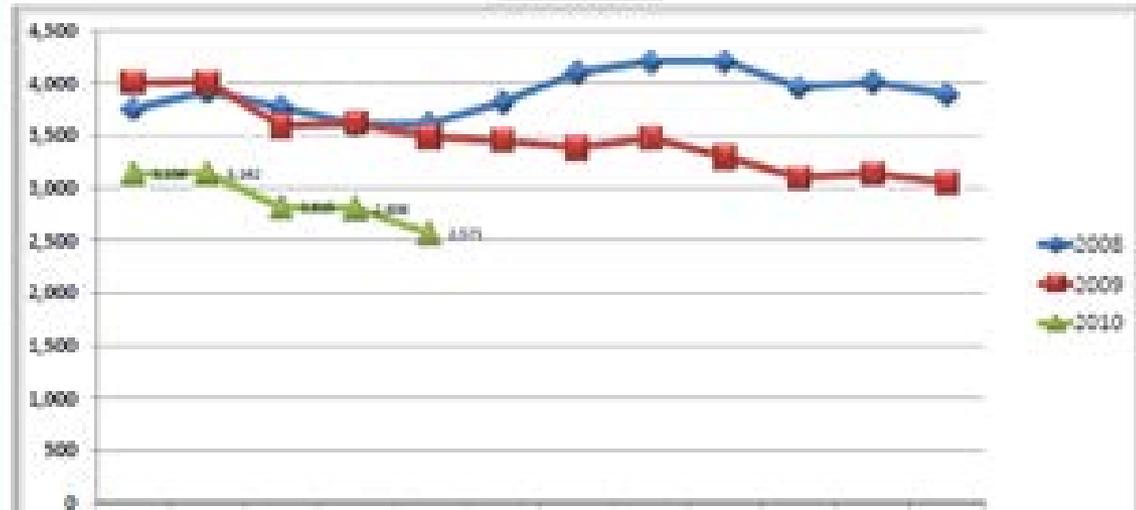
Average Month	Year 2008	Year 2009	Year 2010	2008-09 Var%	2009-10 Var%
Jan	3,754	4,001	3,134	6.6%	-21.7%
Feb	3,928	4,011	3,142	2.4%	-21.7%
Mar	3,768	3,994	2,815	-4.6%	-21.7%
Apr	3,608	3,613	2,808	0.1%	-22.3%
May	3,608	3,490	2,571	-3.3%	-26.3%
Jun	3,837	3,452		-9.8%	
Jul	4,099	3,385		-17.6%	
Aug	4,207	3,479		-17.3%	
Sep	4,206	3,395		-21.7%	
Oct	3,958	3,301		-21.7%	
Nov	4,007	3,179		-21.7%	
Dec	3,891	3,048		-21.7%	
YTD-Avg	3,733	3,742	2,894	0.3%	-22.7%

Est 2009 1 with Usage	1,084,888
Actual	\$0.00
Est 2009 100% with	1.00

Usage Reduction	\$/Year Savings
5.0%	\$ 4,760.34
10.0%	\$ 9,520.28
15.0%	\$ 14,280.42
20.0%	\$ 19,040.56
25.0%	\$ 23,800.71

Usage Reduction	Annual Equivalent Trees Planted
5.0%	1,580
10.0%	3,161
15.0%	4,741
20.0%	6,322
25.0%	7,902

Aurora, CO - 10230  
Usage per day



# Coppell Staples Treasure Hunt Team



Lighting	HVAC/EMS	Conveyor Motors	Communications
Bob Valair	John Marzec	Charles Bevington	Kathy O'Connell
		Robert Roest	Chante Scott
Chris Maxwell Joan Mayo	Adam Pulskamp Keith Svonovec Rick Hall Chris Johnson	Ray Neiser Sara Gammell	Pat Maher

# Coppell Quill Treasure Hunt Team



Lighting	HVAC/EMS	Conveyor Motors	Communications
Bob Valair	John Marzec	Charles Bevington	Kathy O'Connell
		Robert Roest	Chante Scott
Chris Maxwell Joan Mayo	Adam Pulskamp Keith Svonovec Rick Hall	Ray Neiser Sara Gammell	Pat Maher

# Coppell SDO Treasure Hunt Team



Lighting	HVAC/EMS	Motors	Communications
Bob Valair	John Marzec	Charles Bevington	Kathy O'Connell
Eric Johnson			Chante Scott
Chris Maxwell Joan Mayo	Adam Pulskamp Keith Svonovec Rick Hall	Sara Gammell	Pat Maher

# Treasure Hunt Goals



## Objective:

- Become knowledgeable on Staples Energy Reduction Treasure Hunt process
- Team to produce plan for Staples to reduce energy consumption by 30%

## Goal:

- Instill Energy Savings as Part of the Culture
- Deploy Technologies to Eliminate Waste
- Each team to find one to two Prospects per person

## In and Out of Scope:

- Nothing out of Scope; Everything is to be considered
-



# Sunday 8/21 Agenda

1:00 PM...Welcome and Introduction Presentation

1:15 PM...Split into teams -- Tour the Coppell Site

3:30 PM...Regroup and Share Ideas

4:00 PM...Arrive at Quill Coppell and split into teams and tour site

6:30 PM...Regroup and share ideas and energy reduction opportunities

7:00 PM...Dinner



# Monday 8/22 Agenda

- 7:00 AM...Teams meet at Staples to observe startup
- 10:45 PM...Employee energy rally
- 11:30 AM...Regroup and Share Ideas
- 12:00 PM...Lunch
- 12:30 PM...Continue energy reduction identification
- 3:00 PM...Team visits Coppell SDO for 1 hour
- 5:30 PM...Finalize energy reduction summary & report-out presentation
- 6:00 PM...Adjourn to dinner



# Tuesday 8/23 Agenda

7:00 AM...Teams meet at Quill Coppell

11:30 AM...Regroup and share ideas

12:00 AM...Lunch

12:30 PM..Continue energy reduction identification

2:30 PM...Finalize energy reduction summary & report-out presentation

3:00 PM...Adjourn, Team needs to leave at this time to catch flights



# YOY Reports Quill 4961



## Staples Electricity Report



Site Name	04961-Coppel, TX
Region	(All)
Pilot/Retail DCs	(All)

5%	Over
1%	Caution
0%	Savings



ENERGY STAR RATING:

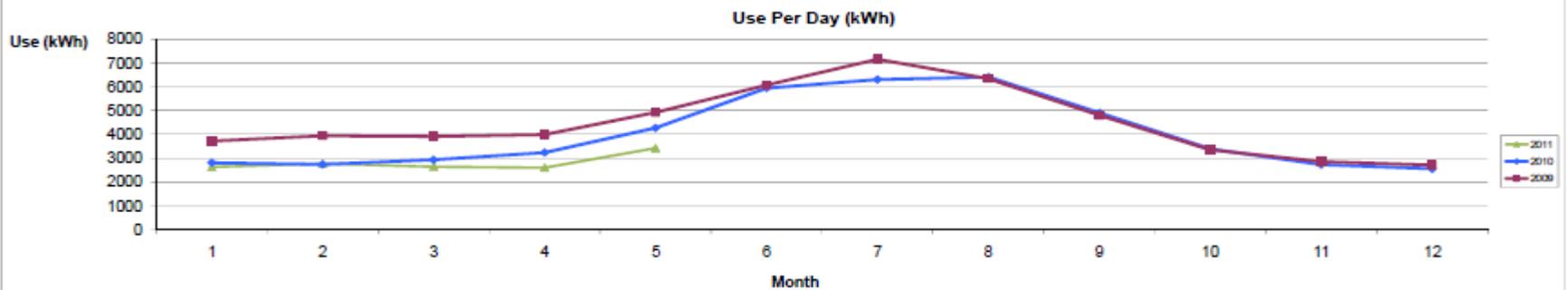
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Use Per Day (kWh)					
Month	2009	2010	2011	2009-10 Var%	2010-11 Var%
1	3,716	2,805	2,629	-24.5%	-6.3%
2	3,943	2,734	2,770	-30.7%	1.3%
3	3,912	2,930	2,833	-25.1%	-10.1%
4	3,993	3,231	2,600	-19.1%	-19.5%
5	4,924	4,269	3,421	-13.3%	-19.9%
6	6,063	5,942		-2.0%	
7	6,338	6,301		-0.6%	
8	6,338	6,407		1.1%	
9	4,801	4,904		2.2%	
10	3,352	3,393		1.2%	
11	2,855	2,725		-4.5%	
12	2,706	2,552		-5.7%	

Actual 2010 Use (kWh)	1,468,980
Unit Price \$	0.1043
lbs CO <sub>2</sub> /kWh	1.32

Use Reduction	\$/Year Savings
5.0%	\$7,663
10.0%	\$15,326
15.0%	\$22,989
20.0%	\$30,652
25.0%	\$38,314

Use Reduction	Annual Equivalent Trees Planted
5.0%	3,166
10.0%	6,332
15.0%	9,498
20.0%	12,664
25.0%	15,830



# YOY Reports Staples

## 4839



### Staples Electricity Report



Site Name	04839-Coppell, TX
Region	(All)
Pilot/Retail DCs	(All)

5%	Over
1%	Caution
0%	Savings



ENERGY STAR RATING:

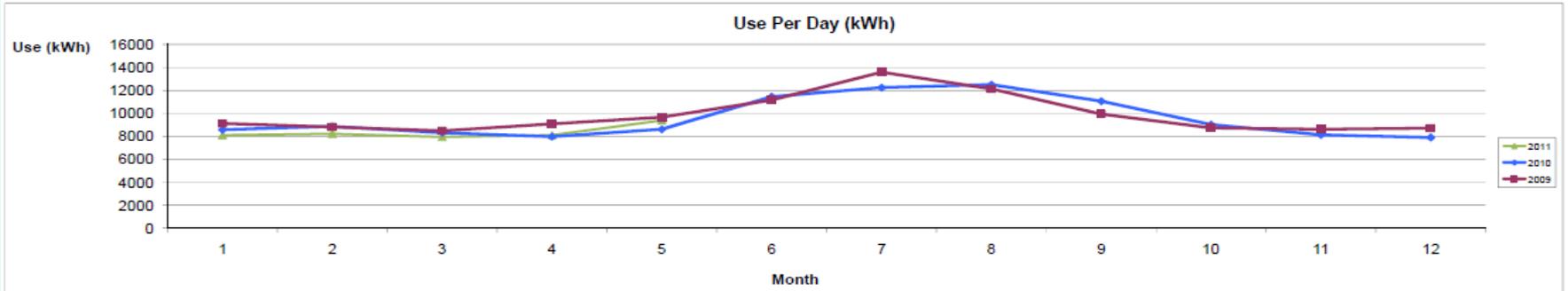
67

Use Per Day (kWh)					
Month	2009	2010	2011	2009-10 Var%	2010-11 Var%
1	9,125	8,576	8,103	-6.0%	-5.5%
2	8,816	8,866	8,228	0.6%	-7.2%
3	8,480	8,316	7,947	-1.9%	-4.4%
4	9,089	7,980	8,099	-12.2%	1.5%
5	9,664	8,613	9,385	-10.9%	9.0%
6	11,157	11,465		2.8%	
7	12,129	12,252		1.0%	
8	12,129	12,512		3.2%	
9	9,947	11,063		11.2%	
10	8,741	9,032		3.3%	
11	8,624	8,126		-5.8%	
12	8,710	7,907		-9.2%	

Actual 2010 Use (kWh)	3,490,724
Unit Price \$	0.1004
lbs CO <sub>2</sub> /kWh	1.32

Use Reduction	\$/Year Savings
5.0%	\$17,527
10.0%	\$35,054
15.0%	\$52,581
20.0%	\$70,109
25.0%	\$87,636

Use Reduction	Annual Equivalent Trees Planted
5.0%	7,523
10.0%	15,046
15.0%	22,569
20.0%	30,092
25.0%	37,616



# Questions and Discussion



**Pat Maher**

**Burton Energy Group**

**(443) 336-5940**

**[pmaher@burtonenergygroup.com](mailto:pmaher@burtonenergygroup.com)**

# Agenda



# Agenda

