

Environmental Management Information Systems

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Who is CCE ...

- We're the largest bottler in North America of carbonated soft drinks
- We are also the largest bottler in the entire Coca-Cola system
- CCE is a company consisting of many companies

Challenges ...

- Changing the cultural mindset
- Centralized VS Decentralized ?
- No previous utility management program
- Standardization of utility data (water, water and sewer, etc...)
- Management 'buy-in'

Why CCE needed an EMIS program...

- Obtain purchasing power for all utilities based on usage and cost data.
- Provide data collection for conservation opportunities
- Provide cost-benefit analysis
- Provide utility data to The Coca-Cola Company for the Annual Environmental Report

How to convince management to invest in EMIS...

Pilot Pilot Pilot

- Measure the numbers at one location and work with them to conserve and save

Brag Brag Brag

- Report the findings
- Keep up the momentum
- Network within your company with other departments, e.g. procurement
- Go to workshops - like NAEM - for ideas

What can this program provide your company?

- Third party bill payment
- Utility management tool
- Trending reports
- Graphs
- Consolidated data

Benefits of Utility EMIS

- Central repository for utility data
- Ability to standardize data via reporting and graphs
- Could be more cost effective to manage external vs. internal
- Provides data for Key Business Indicators
- CO\$T saving opportunities are unavoidableForces plants to look at and do something about consumption

Limitations of Utility EMIS System

- The database is only as good as the data entered:

Garbage In = Garbage Out

- Initial set up of system can be time consuming and very labor intensive

Implementation of EMIS

What did CCE have to do?

- Gather a month's worth of invoices in hardcopy form
- Luckily, invoices were going to one repository
- Not so lucky, only hardcopies were available
- Provide a facility address list that corresponded to all utility service addresses
- Confirm and correlate utility service company lists with CCE account numbers

Learnings from EMIS project

- Evaluate your staffing needs
- Evaluate data availability and needs such as electronic VS hardcopy, internal VS external data
- Make friends with your IT department
- Keep management informed of setbacks
- Keep management informed of milestones
- Don't panic and don't give up

Example Reports...

Service Summary

Menu Reports Analysis Trends Accounting Site Information General Information Options Update Custom



COCA-COLA ENTERPRISES
PO BOX 723040
ATLANTA, GA 31139
2/24/2004



Reports - Service Summary

From Period To Period
January 2003 December 2003

Site (Blank for All) Look Up

OR

Type All
Group All
Region All
Division All

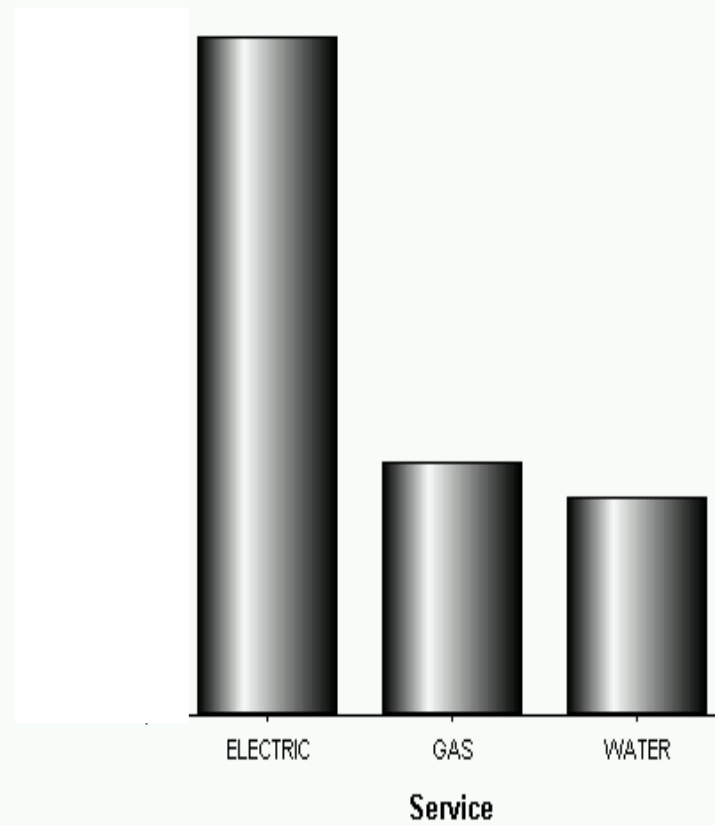
Go

<input checked="" type="checkbox"/> SERVICE	COST	COST %
ELECTRIC		
GAS		
WATER		
Total:		

! Indicates Rebill Invoice

Service Summary Graph

Utility Summary



Bar Chart ▾ Swap Scales Swap 3D Clipboard

Bill Detail / Site Specific

Menu Reports Analysis Trends Accounting Site Information General Information Options Update Custom



COCA-COLA ENTERPRISES
PO BOX 723040
ATLANTA, GA 31139
2/24/2004



Reports - Bill Detail

Service: ELECTRIC From Period: January 2003 To Period: December 2003 Vendor: All Vendors Invoice #: 0

Site (Blank for All): 09640 Look Up

OR

Type: All
Group: All
Region: All
Division: All

Go

<input checked="" type="checkbox"/> SITE #	SITE NAME	VENDOR	ACCOUNT	INVOICE #	BILL DATE	PERIOD	ELECTRIC	INVOICE AMOUNT	BAL FWD	IMAGE
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027299000	462331	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027300500	462327	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027301002	462322	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027301500	462329	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027310001	462326	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027311500	462330	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027312502	462325	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027312601	462324	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027312750	462328	01/24/2003					
09640	COLLEGE PARK PRODUCTION	CITY OF COLLEGE PARK	4027299000	494365	02/22/2003					

Site Detail

Menu Reports Analysis Trends Accounting Site Information General Information Options Update Custom



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2/24/2004



Reports - Site Detail

Service: ELECTRIC | From Period: January 2003 | To Period: December 2003 | Group By: Site | Time of Use | Sub-Service

Site (Blank for All): 21038 | Look Up

OR

Type: All | Group: All | Region: All | Division: All

Go

<input checked="" type="checkbox"/> SITE #	SITE	COST	KWH	KW	COST/KWH
21038	ALEXANDRIA PRODUCTION				

Total:

Vendor Detail

Menu Reports Analysis Trends Accounting Site Information General Information Options Update Custom



COCA-COLA ENTERPRISES
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 2/24/2004



Reports - Vendor Detail

Service: From Period: To Period: Sites: Vendor:

Site (Blank for All)

OR

Type:
 Group:
 Region:
 Division:

VENDOR	SITES	COST	ACTUAL USAGE	COMPUTED THERM	COST/THERM
CENTERPOINT ENERGY ARKLA(888)	8				
CAMDEN SALES CENTER (48762)					
JONESBORO SALES CENTER (48012)					
LAWTON SALES (16302)					
LITTLE ROCK PRODUCTION CENTER (48901)					
MORRILTON SALES CENTER (48904)					
SHREVEPORT SALES CENTER (04911)					
TEXARKANA SALES CENTER (15907)					
WEST MEMPHIS PRODUCTION (48007)					
Total:	8				

Benchmarking

Analysis - Benchmarking

Service **From Period** **To Period**
 ELECTRIC January 2003 December 2003

Site (Blank for All)

OR

Type CCE PRODUCTION
Group All
Region All
Division All

--- Benchmark Against ---

Site (Blank for Company Average)
OR
Type All **Group** All **Region** All **Division** All

Measurement Cost/Usage **Type** Best **Return Amount** 5 Number Percent

SITE #	SITE NAME	SITE VALUE	BENCHMARK VALUE	DIFFERENCE
02216	NEEDHAM PRODUCTION	\$		24
53400	TRUESDALE PACKAGING	\$		23
54022	INDIANAPOLIS PRODUCTION	\$		16
50021	EAGAN / EPC PRODUCTION	\$		12
48901	LITTLE ROCK PRODUCTION CENTER	\$		11

Trends (Electric)

Trends - Usage

Service **Beginning Year** **TOU** **Sub Service**

Site (Blank for All)

OR

Type
Group
Region
Division

MONTH	KWH		KWH COST	
	2003	2004	2003	2004
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				
Total:				

Trends (Gas)

Trends - Usage

Service **Beginning Year** **TOU** **Sub Service**

Site (Blank for All)

OR

Type
Group
Region
Division

MONTH	THERM		THERM COST	
	2003	2004	2003	2004
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				
Total:				

Service Cost by Month

- Menu
- Reports
- Analysis
- Trends
- Accounting
- Site Information
- General Information
- Options
- Update
- Custom



COCA-COLA ENTERPRISES
 PO BOX 723040
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 2/24/2004



Reports - Service Cost By Month

Service
From Period
To Period
Group By
Display

Site (Blank for All)

OR

Type
Group
Region
Division

<input checked="" type="checkbox"/> SITE #	SITE	JAN 2003	FEB 2003	MAR 2003	APR 2003	MAY 2003	JUN 2003	TOTAL
04741	PENSACOLA SALES CENTER							
17647	PEMBROKE/HOLLYWOOD PRODUCTION							
17682	ORLANDO PRODUCTION							
17684	TAMPA PRODUCTION							

Total:

Site Information

Menu Reports Analysis Trends Accounting Site Information General Information Options Update Custom



COCA-COLA ENTERPRISES
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2/24/2004



Site Information - Name & Address

Site Status

All Sites ▾

Site (Blank for All)

OR

Type All ▾

Group All ▾

Region All ▾

Division All ▾

<input checked="" type="checkbox"/> SITE #	SITE NAME	DELIVERY ADDRESS	CITY	STATE	ZIP	CONTACT	TELEPHONE	FAX	EMAIL
02206	WALTHAM COOLER SERVICE	80 2ND AVE	WALTHAM	MA	02451				
02213	BRAINTREE SALES CENTER	825 GRANITE ST	BRAINTREE	MA	02184				
02215	WESTBOROUGH SALES CENTER	2 SASSACUS DRIVE MAIN	WESTBORO	MA	01581				
02216	NEEDHAM PRODUCTION	9 B ST	NEEDHAM	MA	02494				
02221	ALBANY SALES CENTER	38 WAREHOUSE ROW	ALBANY	TX	12205				
02222	NAUGATUCK SALES CENTER	80 RADO DR	NAUGATUCK	CT	06770				
02223	GREENFIELD SALES CENTER	SILVIO CONTE DR	GREENFIELD	MA	01301				
02225	SYRACUSE SALES CENTER	298 FARRELL RD	SYRACUSE	NY	13209				
02226	EAST HARTFORD PRODUCTION	451 MAIN ST	EAST HARTFORD	CT	06118				
02231	PITTSFIELD DOUBLE BOTTOM	71 DOWNING PARKWAY	PITTSFIELD	MA	01201				