

Empowering Utilities With Technology & People



Joe Thomas
Associate Vice President & General Manager – Client Fulfillment
The United Illuminating Company

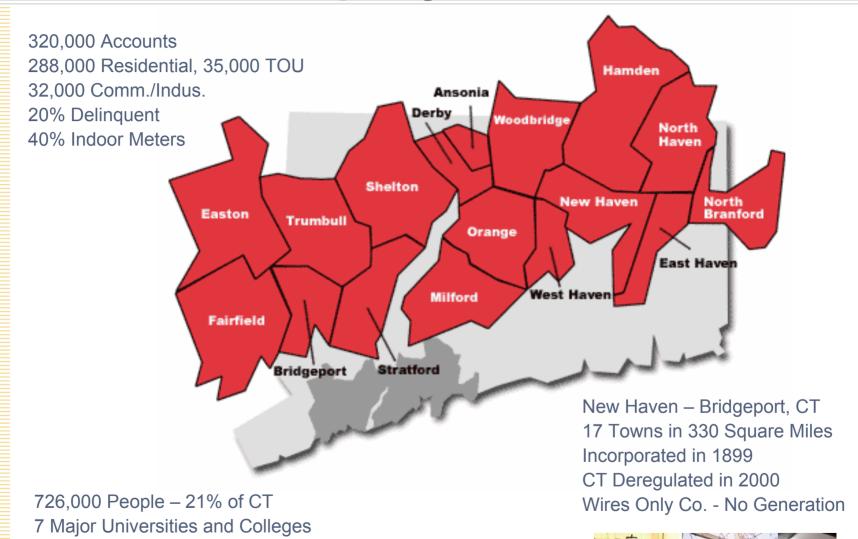
October 18, 2006

Agenda

- 1. Company Profile
- 2. Technology Past
- 3. Technology Present
- 4. Benefits of Technology
- 5. Challenges
- 6. Technology Future



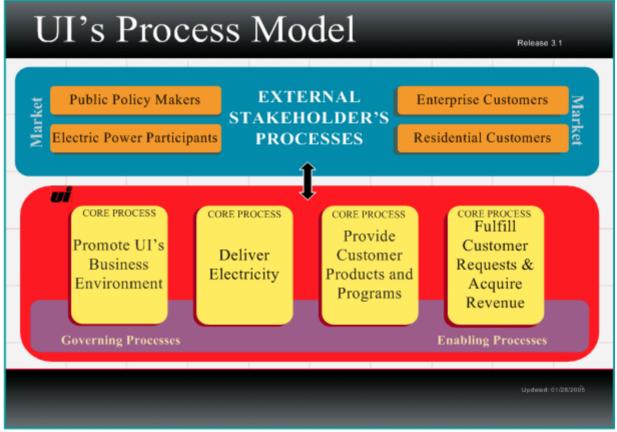
Company Profile



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1/3 Population Transient

Process Based Organization

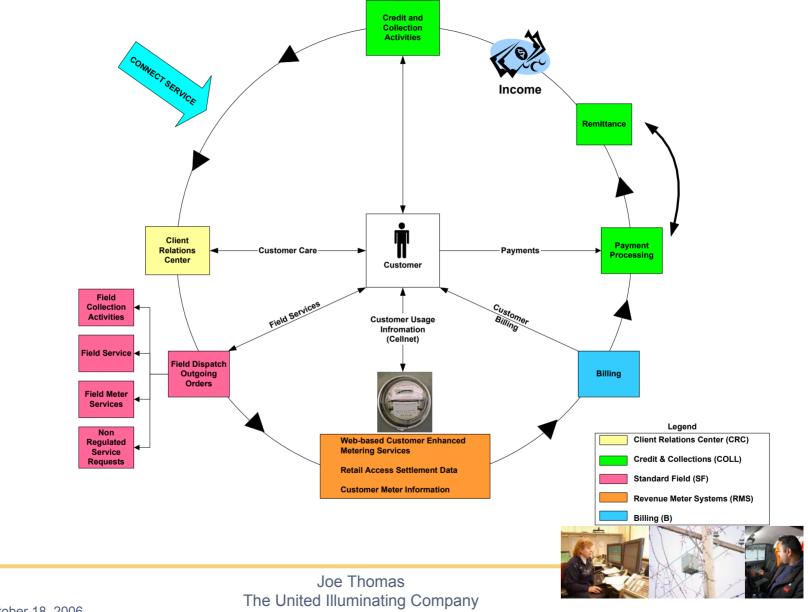


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October 18, 2006

Fulfill Requests & Acquire Revenue



Fulfill Requests & Acquire Revenue

| Activity | Annual Average |
|---|----------------|
| Customer Calls to Call Center | 804,704 |
| Interactive Voice Response Volume (IVR) | 414,279 |
| Work Orders – Electric System | 22,000 |
| Work Orders – Client Fulfillment | 121,994 |
| Daily Meter Reads | 110,000,000 |
| Monthly Invoices | 320,000 |



Technology Drivers – Past

Customer Expectations

- The Demand for Information Usage & Account Management
- Flexible Billing Model
- Credit Card
- New Products & Services

Industry Drivers

- Deregulated Energy / Delivery Model
- NAICS Code (Old SIC Code Update)
- Supplier Rate Implementation 200 to 1,200 New Rates
- Federally Mandated Congestion Charges
- Conservation & Load Management Bond Securitization

Inflexible Technology

- Unsupported Systems
- Islands of Information Multiple Interfaces
- Costly to Maintain



Technology - Present



Ongoing

Emerging Technology 2001

Network Meter Reading System 2002

Call Center Work Scheduler 2002

WorkSuite

2002

Supervisory
Control and
Data
Acquisition

2003

Fiber Backbone



Technology - Present



September 2003

Off Peak Water Heater Control

November 2003

Interactive Voice Response

November 2003

Customer Information system

November 2003

Field
Automation
Wireless
Mobile
Dispatch

February 2004

Voice Over Internet

May 2004

Call
Center
Disaster
Recovery
Center

Customer Interaction Center



Technology - Present



April 2006

Knowledge
Base &
Customer
Self
Service

July 2006

Virtual Queuing Solution

October 2006

Theft Detection Algorithms

November 2006

Remote Disconnect

December 2006

Online Customer Energy and Bill Mgmt



Benefits - Operation

Information Availability and Access

- Robust Information and Analysis Capabilities
- Information Available to All End Users
- Automated Outage Reporting
- Customer Information Systems are Available 7 x 24

SAP

Field Automation (FA)

Interactive Voice Response (IVR)

Enhanced Billing/Invoice Edits/Functionality

- Supplier Management Electronic Data Interchange (EDI)
- New Rates/Suppliers due to Deregulation
- Rate Analysis for Call Center (What If Billing)
- Virtual Disconnect Process
- Remote Disconnect Process
- Identity Theft Risk Mitigation
- Theft of Service Detection
- Ground Level Inspection (GLI)



Benefits - Company

Minimal Customization

- Allows for industry wide upgrades All stakeholders will benefit
- Reduced future upgrade cost due to minimal customization
- Supports changes for deployment of new products and services

Order Entry / Completion

- Improved office / field workflow and information
- Drop down options available to minimize errors
- Improved workflow assignments

Improved Business Continuity

- Mobile Computing Anytime, Anywhere, Any Place
- Disaster Recovery

Accountability

- Significantly Improved Audit Trail
- Increased Billing Controls
- Improved Customer Data Accuracy



Benefits - Company

Energy Policy Act of 2005

- Daylight Savings Time
- Net Metering Offerings
- Time-of-Use Rates
- Demand Response Programs
- Smart Metering Technology
- Data Presentment for Conservation and Awareness

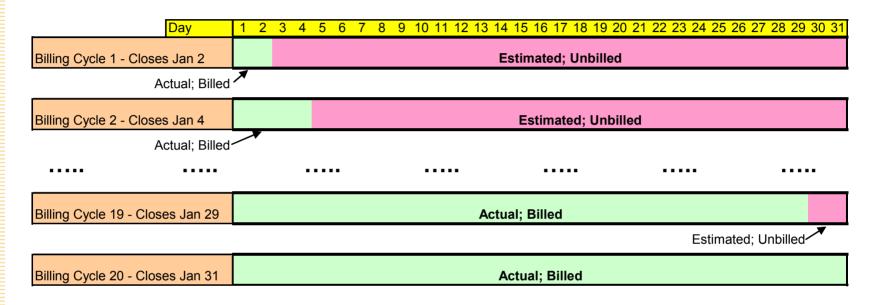
Flexible Billing/Accounting Programs

- Daily Sales of Energy
- Real Time Billing (hourly) for Large Commercial and Industrial Customers
- Reduced DSO and Increased Profitability
- Easier Daily and Monthly Balancing
- Sarbanes-Oxley Compliance



Benefits - Company

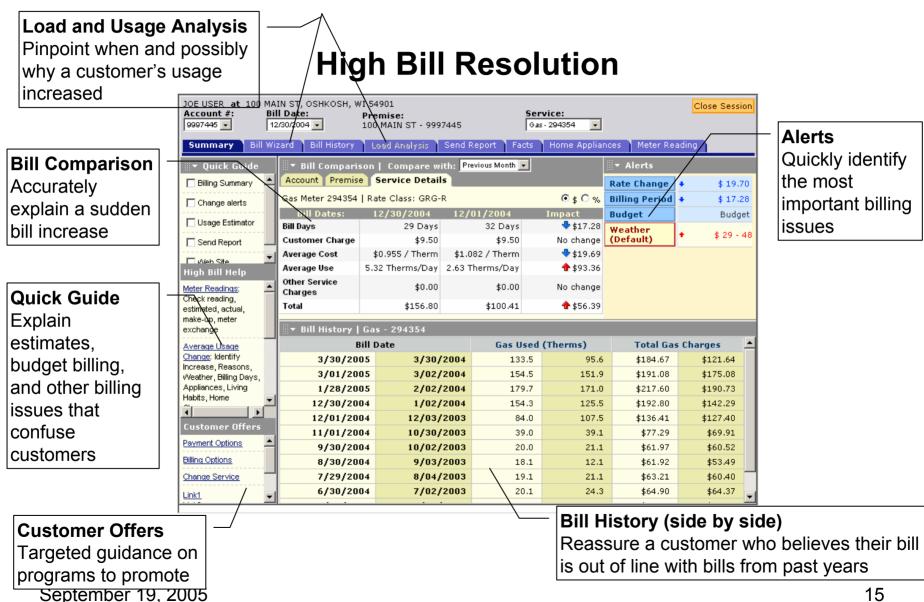
Unbilled Revenue



For the January 31st month-end close, about half the revenue is actual, and half is estimated. (The billed and unbilled totals are derived from the sum of data from the 20 billing cycles.)

New methodology eliminates unbilled estimates by receiving actual reads at end of month for every meter.

Benefits - Call Center

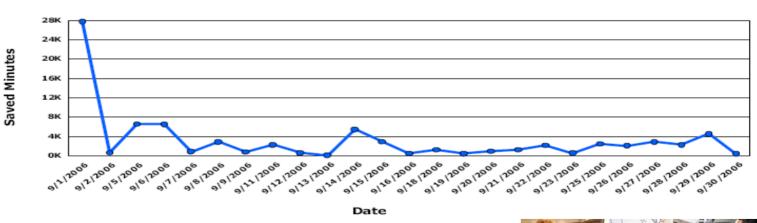


Benefits – Call Center

Virtual Queuing – Managing Call Volumes

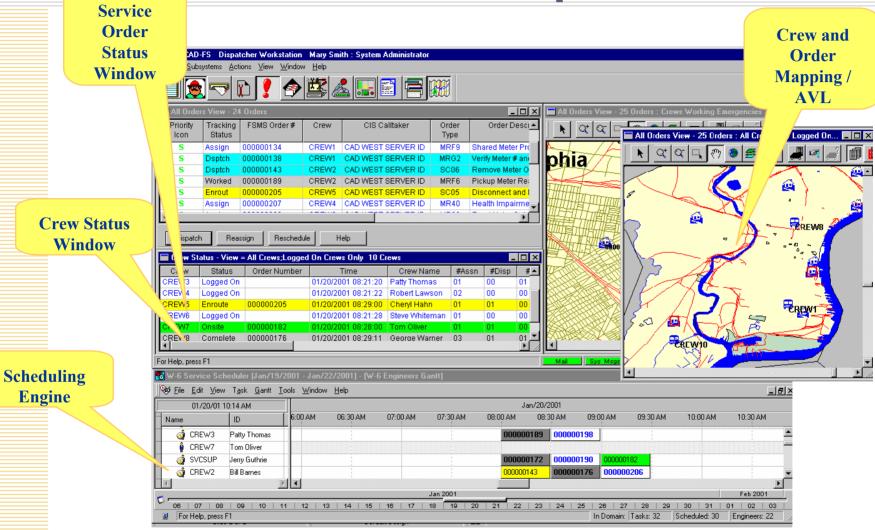
Saved Minutes Summary – Includes VirtualQueue, VirtualQueue via Web and ResQueue Reconnect calls

| Successful Reconnect | 5,433 |
|---|------------|
| Total Saved Minutes | 78,009 |
| Average Saved Minutes / Return Call | 14 |
| Total Dollar Savings @ \$0.10 / minute | \$7,800.90 |
| Average Dollar Savings / Call | \$1.40 |





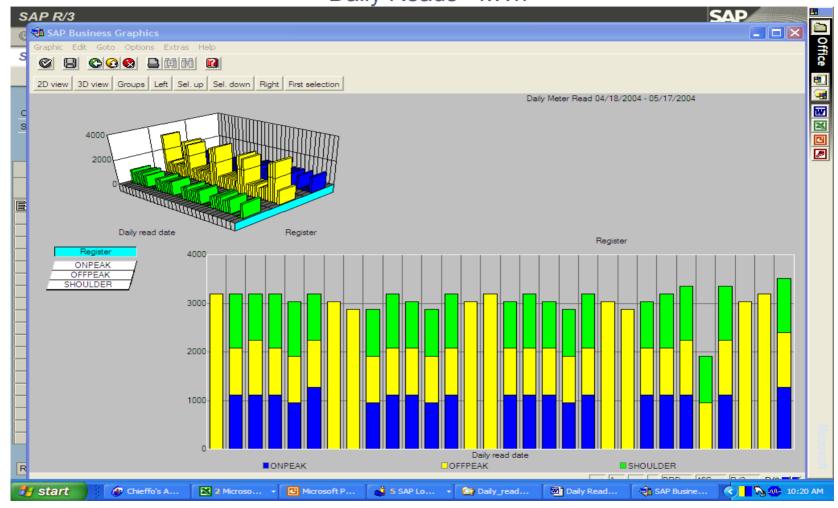




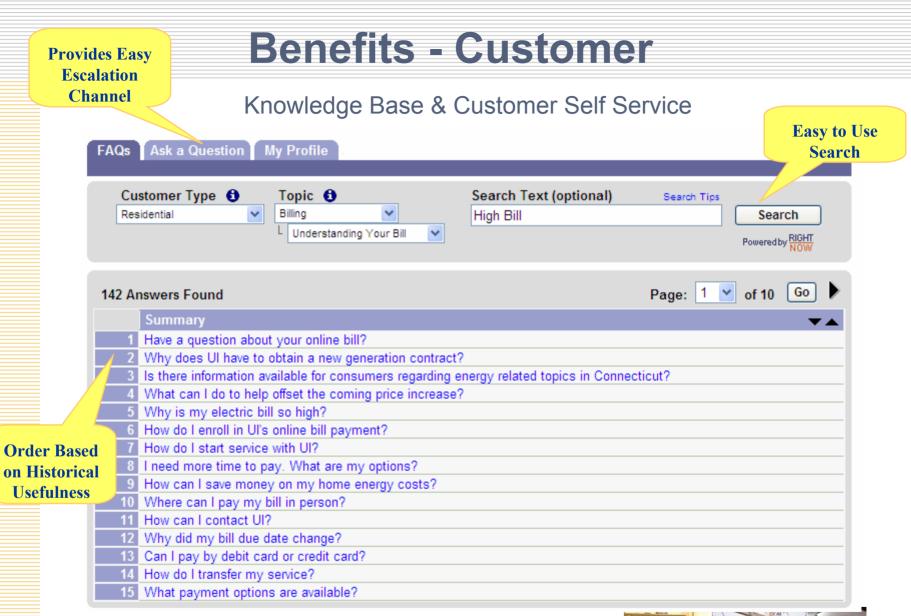
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Engine

Daily Reads - kWh

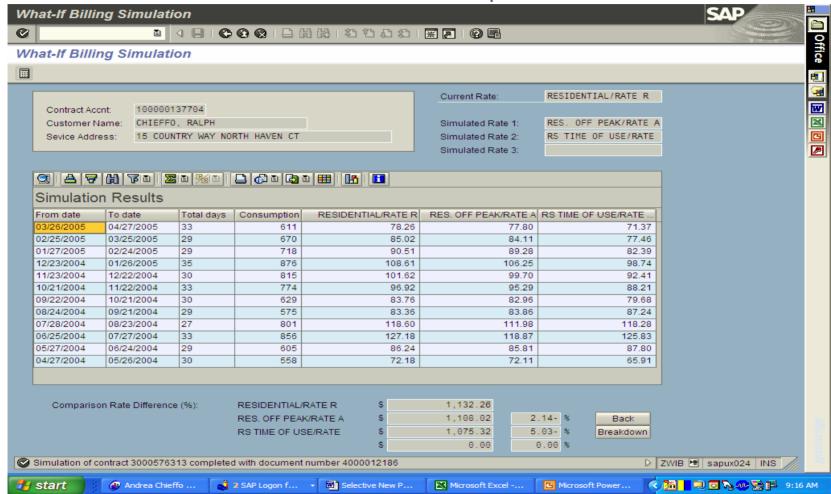






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What If Bill – Bill Comparison



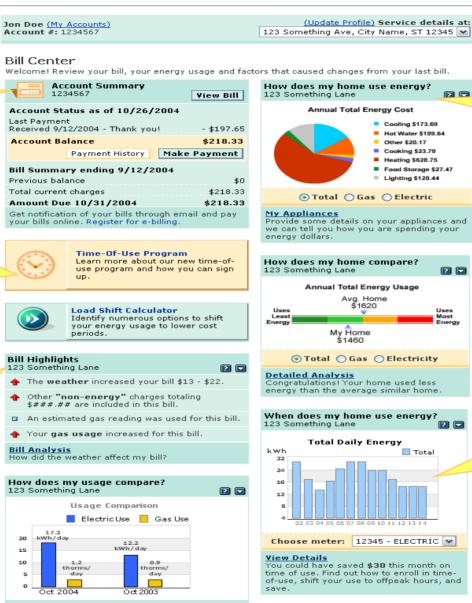


Account **Summary**

Promote TOU and Conservation programs

How did weather, rate, appliance or lifestyle changes affect my bill?

September 19, 2005



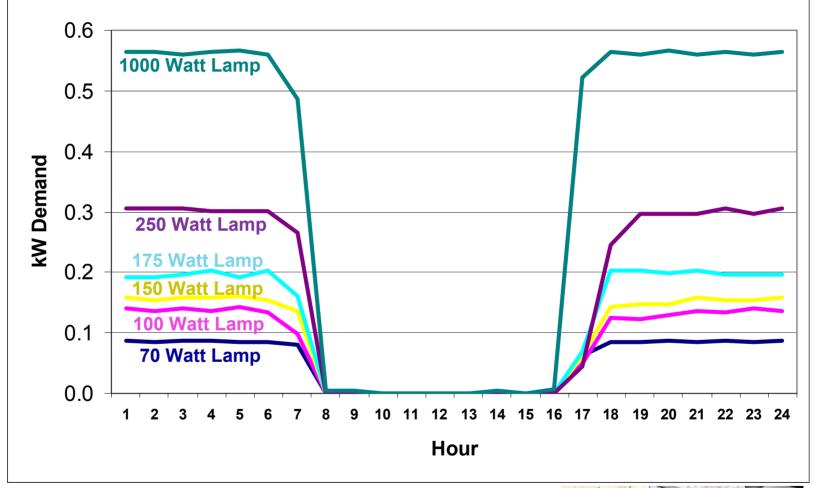
View up to 18 months of bills and usage graphs...

How did my home/facility use energy?

2

Leverage NMR data to provide load analysis.

Average Measured Streetlight Energy





Revenue Protection Drivers

- Rising Energy Costs
- Obligation to Ratepayers, Stockholders, Suppliers, and Employees
- Improved Data and Theft Detection Technology
- Increase in Unbilled Usage as a Result of Virtual (Soft) Disconnects

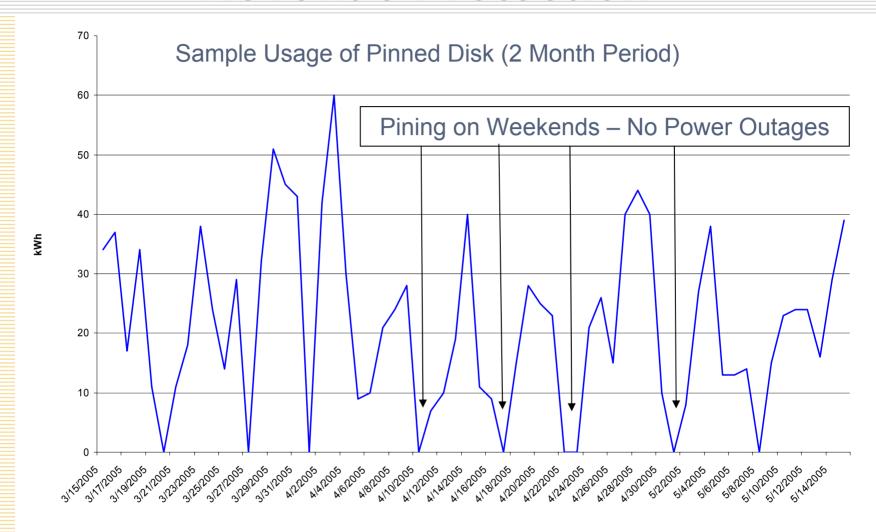
It Makes Good Business Sense

- Helps Prevent Safety Hazards for Public Service Agencies
- High Return on Investment (ROI) 245.14% 2006 (YTD)
- Protects Against Fraud
- Detects Theft Occurrences
- Assists in Reducing Uncollectibles

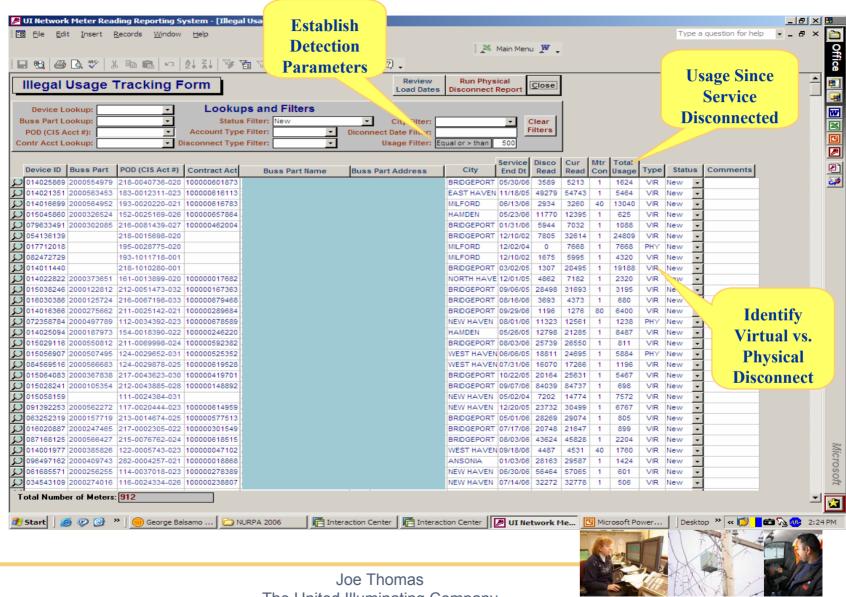
What Needs to be Done?

- Need to Focus on Revenue Protection (Staffing, Data Mgmt, Remote Disconnect)
- Need for Legislative and Regulatory Changes
- Need to Share Best Practices Among Utilities
- Support & Participate in NURPA & IURPA
- Increase Revenue Protection Staffing Levels









Man stole 14 years' worth of power, utility claims

By MATTHEW HIGBEE mhigbee@ctpost.com

power line, diverting tens of day. thousands of dollars in free electricity to his home and said has a background as an

cials sav.

ANSONIA - For 14 years, East Haven, stole \$36,136 in a former city man tapped into power since 1992, UI spokesa United Illuminating Co. man Al Carbone said Tues-

who Carbone

garage, power company offi- electrician, escaped the utili- cuted a search-and-seizure ty's attention until an anony- warrant at mous tip to the company led to mer home on Kathy Lane in an investigation.

> was arrested on a warrant charging him with the utility pole, authorities first-degree larceny.

gators and Ansonia police exe-

Ansonia.

Tracing the power line from found a breaker panel on the On Feb. 8, 2006, UI investi- side of the house, where had allegedly tapped in

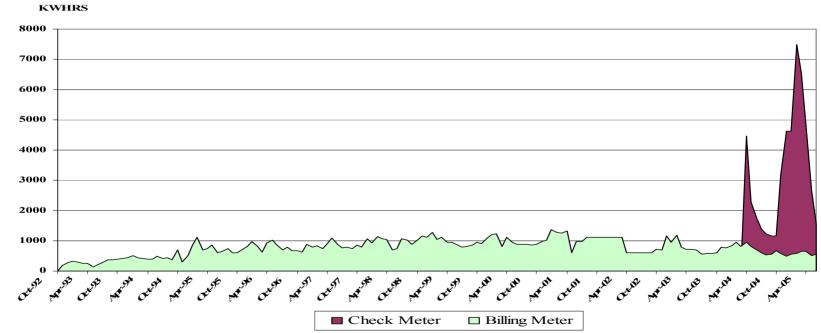
ahead of the electric meter. Carbone said.

The unmetered electricity from the breaker panel supplied power for heat and air conditioning in the house as well as a detached garage with

> Please see POWER on A6

Consumption History

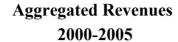
Exhibit 4

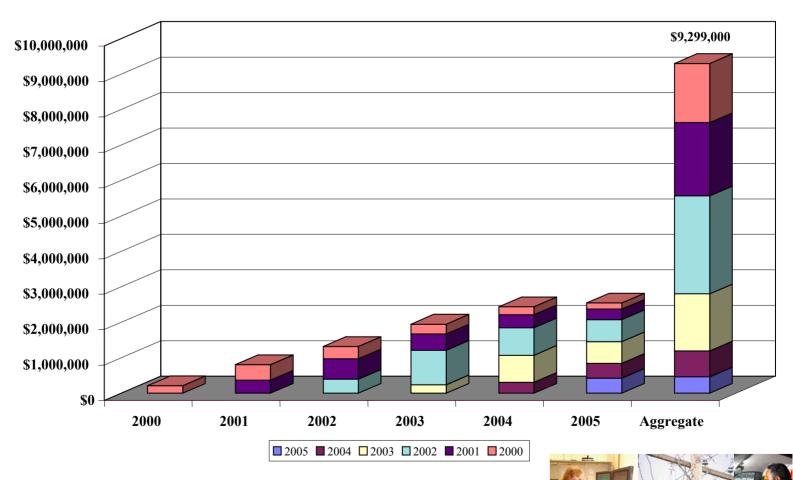


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Overall Benefits



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Future Technology Utilization

Credit Card Payments

Phone, Web, Field

Outage Management System

- Improved Power Restoration Process
- Enhanced Outage Information & Accessibility

Street Light Management System

- Automate Street Light Failure Detection
- Improve Asset Management & Location of Assets

Increase Customer Self Service Functionality

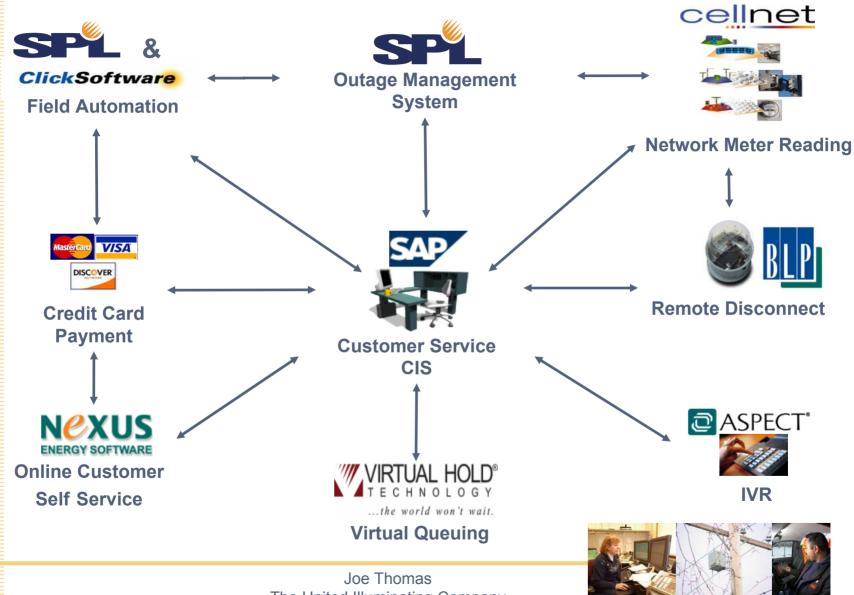
- Connect Process Contractor/Inspector/Homeowner
- Full Service Move In/Move Out, Update Acct Information, etc.

Increase Conservation Initiatives

- > TT, Education, Solar
- Improve Transformer Load Analysis



Technology Platform



Questions

Customer Service



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