



# Annual Report 2011

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State of Illinois  
Green Governments Coordinating Council



[www.green.illinois.gov](http://www.green.illinois.gov)



STATE OF ILLINOIS  
**OFFICE OF THE GOVERNOR**  
SPRINGFIELD, ILLINOIS 62706

**Pat Quinn**  
GOVERNOR

December 22, 2011

Dear Friends,

Sustainable governance is a fundamental obligation of our generation. It is our responsibility to leave the next generation with a clean, green Land of Lincoln while imparting the necessary skills to preserve our ecosystem in the face of future environmental challenges. This task must begin within state government and I am proud to chair a Green Governments Coordinating Council (GGCC) that sustains a green ethos throughout State operations.

This 2011 GGCC Annual Sustainability Report outlines the innovative sustainability initiatives unfolding across our state agencies, boards, and public institutions. This year we received an unprecedented wealth of quantitative and qualitative data from reporting entities. This data achieves the dual feat of highlighting our successes while providing a roadmap for future improvement. I want to emphasize the contributions of Central Management Services which provided aggregated data from across sectors of State Government.

While our success as an administration is a product of coordinated collaboration, it is also critical to recognize the sustainable contributions of extraordinary individuals within the State. With this aim, I am proud to introduce the new "Caught Green Handed" profiles in the 2011 Report. In these profiles, we seek to highlight and celebrate State Employees who went above and beyond in their green efforts for the State of Illinois. These public servants renew the promise of State government and remind us what we can accomplish through dedicated public service.

I believe this report will reenergize our sustainability efforts and elevate Illinois as a national model of conscientious State governance. Of course, our work is never complete and I know that we will sustain our momentum in future years.

Sincerely,

A handwritten signature in black ink that reads "Pat Quinn".

Pat Quinn  
Governor

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# I. INTRODUCTION

The Green Governments Coordinating Council is proud to publish this seventh annual report. The report highlights green initiatives and sustainability successes achieved by Council members and by constitutional offices, state agencies, boards, commissions, and educational institutions throughout Illinois.

## *Background*

The Illinois Green Governments Coordinating Council was originally formed by Executive Order in 2000. However, the enactment of the Green Governments Illinois Act (20 ILCS 3954) in the fall of 2007 formally established the Council in Illinois statute. With the enactment of the Green Governments Illinois Act, the Council grew in membership and authority.

Chaired by **Governor Pat Quinn** and comprised of 14 state agency members, the Council seeks to, “integrate more fully into the ongoing management systems, long-range planning, and daily operations of State agencies a number of cost-effective environmental sustainability measures that enhance health and safety, reduce the consumption of energy and fuels, conserve water, minimize emissions and reduce solid and hazardous wastes” (20 ILCS 3954/10).

For FY2011 reporting, GGCC continued to use an Excel template, which replaced the online "Go Green Planning Pro" in FY2011. While the Excel

template serves to assist state agencies in meeting the requirements of the Green Governments Illinois Act, it is also available as a tool to guide other institutions—particularly universities, colleges, schools, and local governments—in formalizing their own sustainability plans.

## *Scope*

Sustainability assessment, planning, and reporting cover six operational areas that reach across the key opportunities for greening state operations and policies:

- *Office Operations*—Document production and distribution, communications, and recycling;
- *Purchasing of Goods and Services*—Procurement of paper, office supplies, and electronics;
- *Transportation*—Vehicle use and maintenance, conventional and alternative fuel consumption, and use of transportation alternatives including remote conferencing;
- *Facilities Management*—Energy efficiency, water conservation, green cleaning, integrated pest management, stormwater retention, and natural landscaping;
- *Construction and Renovation*—Green building certification (e.g., LEED), white roofs, renewable energy systems, green

- construction materials, and demolition recycling; and
- *Education and Outreach*— Employee education and awareness, Green Team communication and activities, contests, and awards programs.

The Structure of the report reflects these operational areas, though many initiatives fall in two or more categories. The report recognizes individual agency accomplishments but also highlights interagency cooperation—a key to sustainable operations. The new “Caught Green-Handed” profiles have been added to recognize outstanding individual efforts, but also to emphasize that all agency accomplishments are achieved through the concerted efforts of dedicated personnel across government.

### *Report Highlights*

This year state agencies and institutions have made great strides in reducing imaging devices and related printing costs. A wide variety of departments have planned for, initiated, and completed major retrofits and renovations to existing buildings—another great success for the State and benefit to taxpayers. In addition, state agencies and institutions have expanded an impressive array of recycling efforts on various scales. What follows are but a few of the many impressive accomplishments reported this year.

The Office of Central Management Services has significantly reduced the State’s spatial and thus carbon

footprint, taken the lead on various energy-efficiency retrofit projects, and coordinated a number of comprehensive print reduction initiatives. Already a “green” leader, the Illinois Department of Corrections has continued to expand its impressive recycling and local food programs, making a positive impact on local communities and saving taxpayer dollars. The Department of Revenue continues to shift its operations online and reduce paper use on a massive scale, while improving security and efficiency. In terms of infrastructure, the Illinois State Toll Highway Authority has made great progress implementing various large environmentally-friendly projects previously in the research stage, while continuing to explore new ways to “green” State infrastructure. All reporting universities, lead by the University of Illinois, are improving operations, education, and outreach and on various levels, creating a robust sustainable culture on Illinois campuses.

These efforts, under the leadership and guidance of the Council, demonstrate the State’s commitment to greening Illinois operations and policies this year and in future years. The State’s commitment, furthermore, is a reflection of the efforts of dedicated personnel throughout State government, and intra office as well as increasing interagency cooperation.

### *Executive Initiatives*

As Chairman of the Council, Governor Pat Quinn and his office’s staff coordinated a number of cornerstone initiatives on behalf of the Council this year. The Council continued its annual sustainable symposium series including

the autumn Sustainable Universities and Colleges Symposium, winter Sustainable Government Symposium, and spring Sustainable Schools Symposium. This was the second year the Sustainable Universities and Colleges Symposium partnered with the Illinois Green Economy Network in finding a community college host; this year that host was Heartland Community College in Normal, IL.. These events draw participants from the public and private sectors enabling them to collaborate with, inspire, and learn from one another.

Agencies continued to respond effectively to Executive Order Number 10 (2010) requiring additional spending reductions access the board. In their reports agencies also cited Executive Order Number 11 (2009) requiring them to adopt various “green” operational practices and encouraging other governmental entities to follow suit and take advantage of State contracts. This year’s emphasis on Information Technology reflects last year’s GGCC “Green IT Challenge,” and Central Management Services commitment to implementing cost-saving IT/telecom reductions across other agencies. “Green” construction and retrofits were spurred by Governor Quinn’s \$31B capital bill (signed in July 2009) as well as ARRA funding. As in previous years the Governor will recognize state agencies with Green Government Awards and Illinois residents, schools, and organizations with Environmental Hero Awards.

As it looks ahead, The Green Governments Coordinating Council will continue to focus on improving State operations and policies. Council agencies have critical roles in carrying out Illinois’s legislative mandates on environmental issues such as the energy efficiency standards and green building. Through continued attention to these priorities, and ongoing collaboration with our partners in local governments, state agencies, and public institutions, the Council aims to make next year, and each coming year, even greener than the last.

## II. REPORTING AGENCIES

The following agencies completed at least one section of the Green Governments Coordinating Council sustainability planning and reporting requirements for fiscal year 2011.

Council Member agencies are listed in *bold italics*.

### CONSTITUTIONAL OFFICES

#### ***Office of Management and Budget***

Office of the Auditor General

Office of the Comptroller

#### ***Office of the Governor (Chair)***

#### ***Office of the Lt. Governor***

Office of the Secretary State

### STATE AGENCIES

Arts Council

Auditor General

#### ***Department of Agriculture***

Department on Aging

#### ***Department of Central Management Services***

#### ***Department of Corrections***

Department of Healthcare and Family Services

Department of Financial and

Professional Regulation

Department of Human Rights

#### ***Department of Human Services***

#### ***Department of Natural Resources***

Department of Revenue

#### ***Department of Transportation***

Department of Veterans' Affairs

Emergency Management Agency

#### ***Environmental Protection Agency***

Gaming Board

Illinois Historic Preservation Agency

Illinois State Police

Office of the Appellate Defender

Racing Board

State Universities Civil Service System

### BOARDS AND COMMISSIONS

#### ***Board of Education***

Board of Elections

#### ***Board of Higher Education***

#### ***Capital Development Board***

Criminal Justice Information Authority

Guardianship and Advocacy Commission

Illinois Civil Service Commission

Illinois Commerce Commission

Illinois Council on Developmental Disabilities

Illinois Prisoner Review Board

Illinois State Toll Highway Authority

Pollution Control Board

Student Assistance Commission

### DIVISION OF STATE AGENCIES

CMS Bureau of Communications & Computer Services

CMS Bureau of Personnel

CMS Bureau of Property Management

CMS Division of Vehicles

IDOC-Lincoln Correctional Center

### EDUCATIONAL INSTITUTIONS

Northeastern Illinois University Chicago

Northern Illinois University

Southern Illinois University Edwardsville

#### ***University of Illinois***

Western Illinois University

## **II. AGENCY ACCOMPLISHMENTS**

### **A. OFFICE OPERATIONS**

The Green Governments Coordinating Council is pleased to announce that all reporting state agencies have increased efforts to reduce, reuse, and recycle. All reporting agencies distributed and circulated documents electronically. Agencies continued to recycle plastics, batteries, and reuse office materials. Particularly notable this year is widespread efforts to reduce imaging device, and the application of “green” information technology to improve operational efficiency and reduce energy consumption.

#### ***Electronic Distribution***

This year agency offices have made significant advances in electronic distribution. The Office of the Auditor General has purchased multiple scanners to reduce the number of copies needed by placing scanned documents in a shared directory or on the Intranet. This initiative is integrated with their EWP (Electronic Workpaper Program) software. The office also provides Requests for Proposals and audit guides in electronic format and achieves a significant reduction in paper and copying.

The Capital Development Board’s FY-2011 goal to reduce paper consumption by 10% was supported by implementing the following initiatives: 1. A new browser-based data storage system; 2. Software that allows plan reviewers to conduct on-line reviews (which not only saves paper but also saves the State thousands of dollars each year by reducing the printing costs for plan sets and specification manuals); 3. Electronic paycheck stubs (via the CMS/BCCS EPASS program) ; 4. Various on-line forms and submittals. FY-2011 paper consumption was down significantly from the previous year—more than the 10% goal.

The Illinois Department of Human Rights provides scanners for all employees, and encourages their use instead of fax machines. All employees have been provided with software that creates PDFs and are instructed in their use. This department is also redesigning a number of its methods for distributing internal reports to avoid their being printed. This is projected to save 500+ sheets of copy paper each week and 2600 pages of form-feed paper each two months.

The Illinois Board of Higher Education (IBHE) has developed a new electronic/on-line Academic Program Approval process that allows institutions seeking operating and degree-granting authority the ability to apply via the IBHE website. In FY-2011, the IBHE received 350 Notices of Intent and 257 full applications via the website from institutions seeking new program approval and/or the authority to operate and grant degrees. (The Notices of Intent represent a 2-page document and applications can be in the 100s of pages each.) 229 program change requests (for changes to approved programs) were

also handled electronically. This system has reduced the use of paper, as well as mailing materials and postage. In addition, existing paper documents are being scanned and converted to Laserfiche® which allows for electronic distribution of materials.

In Fiscal Year 2011 the Illinois Department of Revenue (IDOR) set several new electronic filing and electronic payment records. This Department will receive over 4.3 million electronically-filed, IL-1040 returns, which is a 20% increase over 2010. **Almost 75% of the returns that the department receives for individual income tax will be filed electronically.**

IDOR continues to systemically take the paper out of business taxpayers' hands and has directed them to utilize one of its electronic filing options to file their sales tax returns. In 2011, the department will receive over 900,000 sales tax returns electronically or over 60% of the returns through one of its electronic filing options. It now mails sales tax forms to less than 15% of the businesses. This represents a 75% reduction in the past couple of years, when it mailed forms to over 90% of the businesses that file sales tax returns. In addition, IDOR added business income tax returns to their electronic filing options in the fall of 2010 and has continued to expand the number of taxes that taxpayers may file electronically in 2011. Their electronic payments programs continue to grow with over 79% of the dollars, or \$24.8 billion, being received through one of its electronic payment channels. **This is an over 12% increase from fiscal year 2010 levels.**

Among other notable agency achievements in electronic distribution, the Office of the State Fire Marshal distributes almost all documents electronically and has implemented an electronic signatures system to reduce printing. All Illinois Racing Board publications are now available online, and most inter-office documents are scanned and emailed rather than being mailed. The Illinois Office of the Comptroller will continue to publish all reports on their website, and the State Universities Civil Service System reduced Newsletter mailings by 100% this year.

“What percentage of your agency publications are made available electronically?”

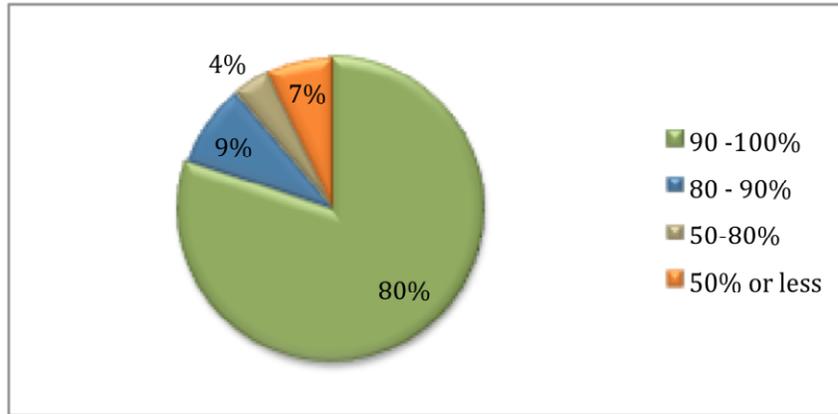


Figure 1: Document Published Electronically:  
% of reporting agencies (in chart) and % of documents (in legend)

“What percentage of forms received by your agency are received electronically?”

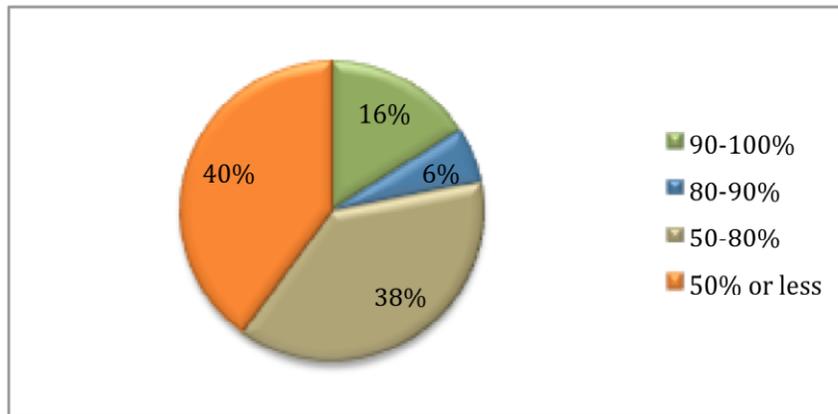


Figure 2: Percentage of Forms Received Electronically:  
% of reporting agencies (in chart) and % of documents (in legend)

### ***Reduction of Imaging Devices***

Past GGCC research indicates that every 10% reduction in imaging devices translates to a 1% savings of annual agency expenditures. Central Management Services (CMS) reports an estimated annual ongoing savings of **\$2,720,019.12** from printer, fax, copier, and scanning equipment reduction. CMS notes the following initiatives pursued with partner agencies: "The Illinois Department of Children and Family Services (DCFS) has undertaken an aggressive schedule to roll out a more efficient network print network. Tollway and the Illinois Department of Employment Security (DES) will be purging some large facilities in the next 40 days. The Department of Human Services (DHS) continues its impressive phasing out of expensive-to-operate printers, copiers, faxes, scanners."

The Department of Healthcare & Family Services (DHFS) has recently developed a comprehensive Green Plan for the reduction and consolidation of imaging devices with the assistance of CMS and the Executive Ethics Commission. The equipment assessment and data analysis project is designed to meet the goals set forth by Executive Order 11 (2009), regarding sustainable practices and initiatives within the State government. This year DHFS sent 103 printers, 12 scanners and 10 faxes to CMS Surplus. DHFS anticipates considerable reductions and savings for FY-2012 through FY-2013 as the plan is implemented.

At the Peoria regional office, the Department's assessment criteria model resulted in the removal of 2 copiers, 3 fax machines, and 13 printers. Although a few otherwise redundant imaging devices had to be retained for security purposes, this initiative resulted in a 100% reduction of copiers, 100 % reduction of fax machines, and a 52% reduction of printers, for an overall reduction of 62%. Even with the addition of 2 multi-function devices, the office is realizing a \$774.00 annual toner savings in addition to electricity savings. Environmental benefits include reduction of the State's carbon footprint and energy savings with various positive impacts. DHFS is also focusing on educating employees about the initiative and training them how to utilize these devices in the most efficient manner.

The Civil Service Commission has reduced the number of imaging devices by 12.5% during fiscal year 2011. At the Illinois Criminal Justice Information Authority offices, a printer/copier survey was completed in July and as a result, 27 copiers and printers will be turned in and replaced by 7 Xerox multi-function machines. **This initiative will result in \$1,715 per month savings.**

## By the Numbers

Reduction of Imaging Devices across Agencies (Reported by CMS)

- Total number of devices eliminated ytd: 6,219
- Printers, 2326; Faxes, 365; Scanners, 795; Copiers, 423; Color Copiers, 1
- Monthly Cost Savings \$226,668.27; Annual Ongoing Savings \$2,720,019.12

### ***“Green” IT***

The Department of Healthcare & Family Services has adopted and follows the Green IT practices as established in Executive Order 10 (2010), requiring additional spending reductions across the board.

The Illinois Environmental Protection Agency installed *Preton*<sup>®</sup> pixel optimization software to reduce printer ink/toner usage. This initiative reduced consumable printer costs by \$3,000. The Department of Revenue submitted a Procurement Business Case (PBC) to procure *Preton*<sup>®</sup> software that achieves substantial reductions in printer toner usage and to identify wasteful printing practices on an individual user level. CMS is studying purchasing this software for the entire State.

All electronic/computer equipment purchased by the Illinois Commerce Commission is state-of-the-art in terms of efficiency, thereby reducing energy consumption with every purchase. As a specific example, the Agency continues to virtualize its servers, at a ratio of four physical servers consolidated onto one virtual server. This is a distinct “green” advantage that drastically reduces power consumption, not only in the amount of power required for running one more efficient server rather than four servers, but also in reduced power utilization to run air conditioning to counteract the heat generated by multiple servers.

# Spotlight

Savings due to reduced consumption of electricity:  
The CMS Bureau of Communications & Computer Services realized **\$1.4 million savings** across 35,000 PCs and laptops utilizing active PC power management.

The IT@Illinois initiative at the University of Illinois at Urbana-Champaign is focused on ensuring high-quality information technology support while also reducing duplicative efforts across campus. Components of this initiative include a unified communications system that combines e-mail, calendaring, and, telephone services. This initiative is expected to save the University significant resources. This initiative also includes efforts to consolidate data centers across campus. **Cost-savings associated with consolidating small servers are estimated to be approximately \$3 million**, the bulk of which is a result of reduced cooling costs.

## ***Recycling***

The Office of the State Fire Marshal has a comprehensive recycling program. They have a large three-tier station in their break room consisting of plastic, aluminum and paper recycling. In addition, they have large paper recycling receptacles around the agency. 95% of all employees have a personal recycling bin at their desks. They also have a cardboard recycling and re-use receptacle in the back of the agency. All agency employees get updates on recycling efforts and green initiatives.

The Illinois Gaming Board uses recycled paper and continues to re-use office supplies such as binders, clips, rubber bands, manila file folders, inter-office envelopes, and expandable pockets. The Office of the Lieutenant Governor sets an example by utilizing the State *I-Cycle* program. And the University of Illinois at Springfield has a website, [uisapps.uis.edu/surplus/](http://uisapps.uis.edu/surplus/), which is used to locate electronic items that can be reused at UIS.

Central Management Services (CMS) reports impressive results from their State Use Vendor electronic recycling program. CMS has recorded over \$3 million in savings compared to the prior contractor vendor rates. The State has responsibly recycled **71,807 pieces of electronic equipment** for a total savings of **\$3,100,563** since the program's inception in April 2010. CMS has further increased efficiencies by implementing direct shipment to the State Use Vendors. This process reduces State

man hours required to operate the program. Below is a breakdown of the estimated savings to the State:

- Recycling Savings by using State Use Recyclers (at \$12.50 ea. asset) = \$897,587.50
- Savings by Wiping/removing/destruction (23,736) at \$20.00 ea. hard drive) = \$474,720.00
- Additional Transportation Savings to agency (fuel, packaging \$0.50 per pound) = \$1,728,255.00
- Printer Reduction = 2,326 printers

TOTAL SAVINGS to State of Illinois: **\*\$3,100,562.50**

*(\*Savings compared to Premier Services Master Contract Rates for same services provided)*

Recently CMS has been focused on expanding the statewide footprint for the *I-Cycle* Program by utilizing State Use Vendors. Ultimately these efforts will translate into reduced waste removal/landfill expenses. CMS intends to track those savings when new waste removal contracts are implemented. The expanded areas of coverage now include the following counties: Effingham, Clay, Marion, Jefferson, Richland, and Lawrence. This includes approximately 30 agencies within 21 facilities, 10 of which had no prior recycling program.

## By the Numbers

### State Wide Recycling Totals (ytd): Weights in Pounds

- Paper: 2,427,049
- Aluminum: 6,716
- Old Corrugated Cardboard: 241,648
- Plastic: 2,211
- Commingled: 58,428
- Tin: 12,415

## By the Numbers

### Recycling Statistics: conversion based on per ton of paper recycled

- Trees Saved: 20,630
- Water Conserved: 8,494,672 gallons
- Unreleased Pollutants: 72,811 (lbs)
- Landfill Area Saved: 3,641 (cubic yards)
- Oil Saved: 461,139 (gallons)
- Electricity Save 4,977,877 (KWh)

Paper Recycled Per State Employee: 45,799 (lbs)

“Which of the following items are collected in your agency recycling program?”

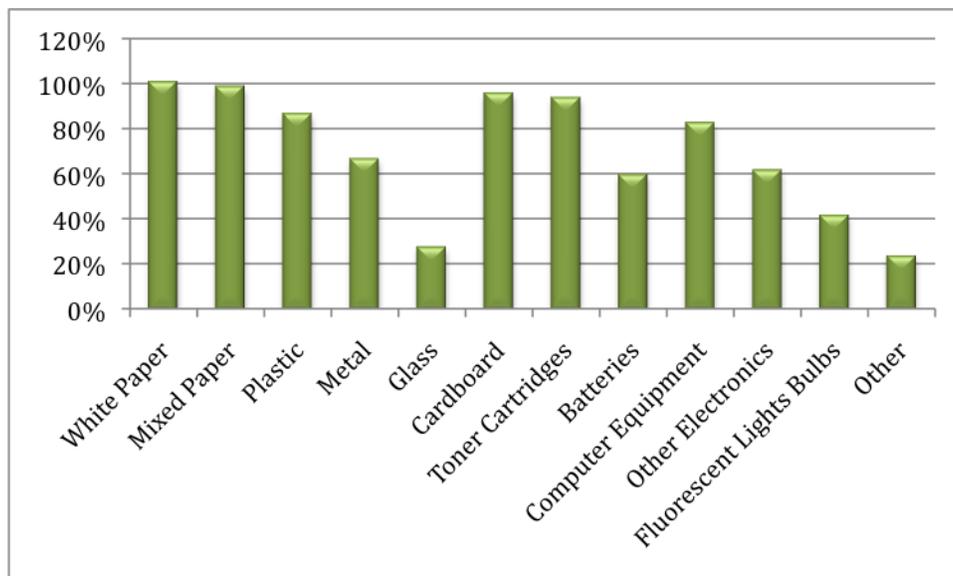


Figure 3. Office Recycling: percentage of reporting agencies that recycle each item

### ***Office Energy Efficiency***

The Office of the Auditor General uses programmable thermostats, energy efficient and motion sensor lighting, and automatic sleep modes for printers/copiers. They continue to reduce their office cleaning from 5 days to 3 days per week, achieving a reduction in energy and use of cleaning products.

At the University of Illinois at Springfield, nearly all classrooms, restrooms, and conference rooms have occupancy sensors that will turn off the lights when unoccupied. The State Universities Civil Service System has replaced workstation battery backups with *GreenPower* UPS technology that improves operating efficiency and eliminates waste energy consumption.

The Department of Revenue purchased and installed a new shredder/grinder at the Willard Ice Building, which reduces energy costs and increases recycling. This new shredder/grinder was procured to meet the Internal Revenue Service's strict requirements for disposal of printed Federal Taxpayer Information (FTI). The new machine is much faster, safer and more energy-efficient than the old machine.

The Office of Sustainability at the University of Illinois at Chicago began a *Green Office Challenge*. This program is designed to work with individual offices and departments to help them implement a number of sustainability initiatives. It also serves as a way to recognize offices and departments that have taken steps to become green leaders on campus. These offices are working to reduce their environmental impact in the areas of Energy Management, Office Supplies, Recycling and Waste Reduction, Transportation, Food and Beverage, and Networking and Engagement. The Office of Sustainability's goal is to see the program continually expand over the next few years to include as many employees on the UIC campus as possible.

state agencies and offices continue in their efforts to reduce energy consumption in various ways. Many agencies have signs to remind employees to turn off lights in conference rooms and policies to turn off computers at the end of the day. Some offices, however, are constrained by external limitations. The charts below illustrate some of these efforts.

“Has your agency instituted a policy or procedures to turn off electronic equipment when not in use?”

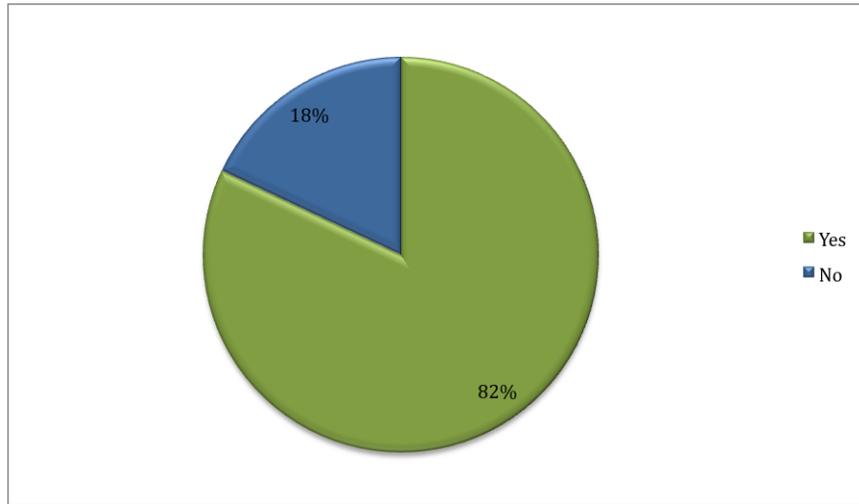


Figure 4. Policy to Turn Off Electronic Equipment

“Does your agency maintain a policy or procedures to turn off lights when leaving the building at night?”

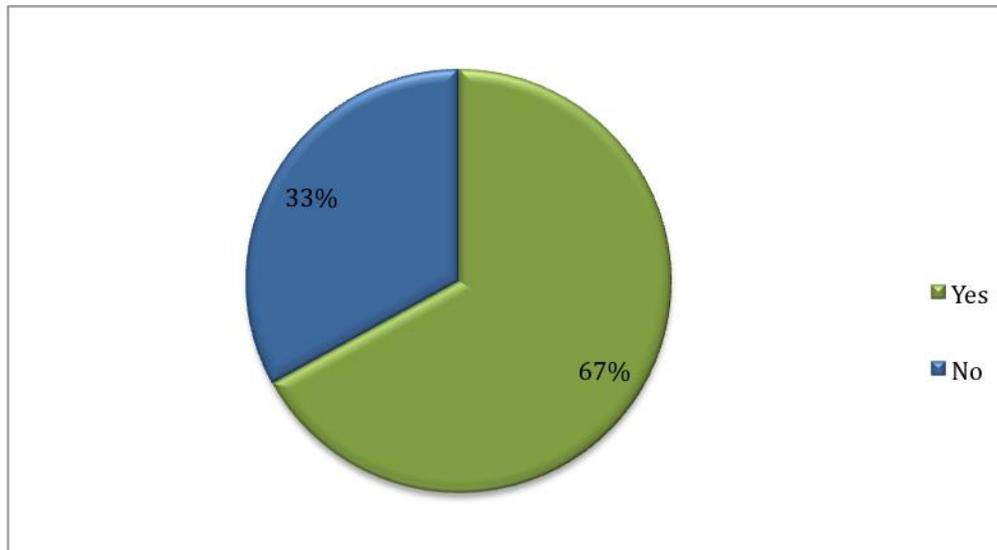


Figure 5. Policy to Turn Off Lights

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***Caught Green-Handed . . . creating a paperless environment***

Brian Kirkorian—Division of Vehicles (DOV), Central Management Services



Brian took a lead role in removing all old printers and fax machines from each DOV garage and the main DOV office. Brian coordinated with CMS BCCS to return and recycle 67 pieces of equipment – some of it almost 20 years old. The old equipment has been replaced with a limited number of ENERGY STAR compliant, multi-functional devices at a ratio of 1 MFD to 4 old machines. This initiative has saved and will continue to save energy, paper, toner, and maintenance costs.

Brian is also working with the DOV team to create a paperless work environment. He developed the DOV home page where agencies could find all forms, information, and training materials, reducing the need for hard copies. He is also working with regional managers and shop supervisors to analyze office practices and see where opportunities exist to reduce and eliminate paper.

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***Caught Green-Handed . . . recycling and monetizing waste***

Debbi Leach—Division of Vehicles, Central Management Services



Debbi Leach has embraced the green leader position and has been instrumental in working with Mike Cavanaugh (CMS recycling coordinator) in recycling efforts at the DOV. She has rolled out “blue bins” at DOV office and garages, took a lead role in organizing a clean-up of all garages, turned in mounds of old paperwork (coordinating with recycling and shredding), and coordinated the return of old office equipment for recycling.

Debbie worked with the local janitorial company to coordinate recycling efforts and ensure they were following the State Green Cleaning guidelines. She also worked with Mike Cavanaugh and the CMS Green Team to coordinate metal recycling in all garages at DOV. Each garage is recycling about 4,000 lbs. of metal per month, and the DOV collects revenue for the “waste.”

## **B. PURCHASING OF GOODS AND SERVICES**

State agencies are purchasing recycled and “green” office supplies as well as energy efficient equipment. Many agencies are procuring furniture from local or CMS surplus inventories. The State Police and Department of Transportation have purchased vehicles through the U.S. General Services Administration at substantial savings. Many agencies procure food locally and a few institutions maintain their own produce gardens.

### ***Office Equipment and Supplies***

The University of Illinois at Urbana-Champaign purchases soybean oil-based ink, recycled supplies, recyclable supplies, and environmentally preferable supplies. The Purchasing Division specifies and purchases products with recycled material content whenever comparable to products without recycled content.

The Department of Revenue has developed an internal printer and fax cartridge tracking system to track and resolve issues related to complaints regarding poor quality recycled cartridges. Procurement will work with I.T. staff and the cartridge vendors to resolve these issues, ensure that the department can continue to meet its needs, and guarantee that it can continue to purchase only recycled printer and fax cartridges.

State agencies and offices generally make a concerted effort to purchase or procure recycled or recyclable equipment and supplies (see figures 6 and 7, next page). Some agencies, however, have reported logistical and/or cost constraints.

“Did your agency buy some printer/copier paper with recycled content in FY2011?”

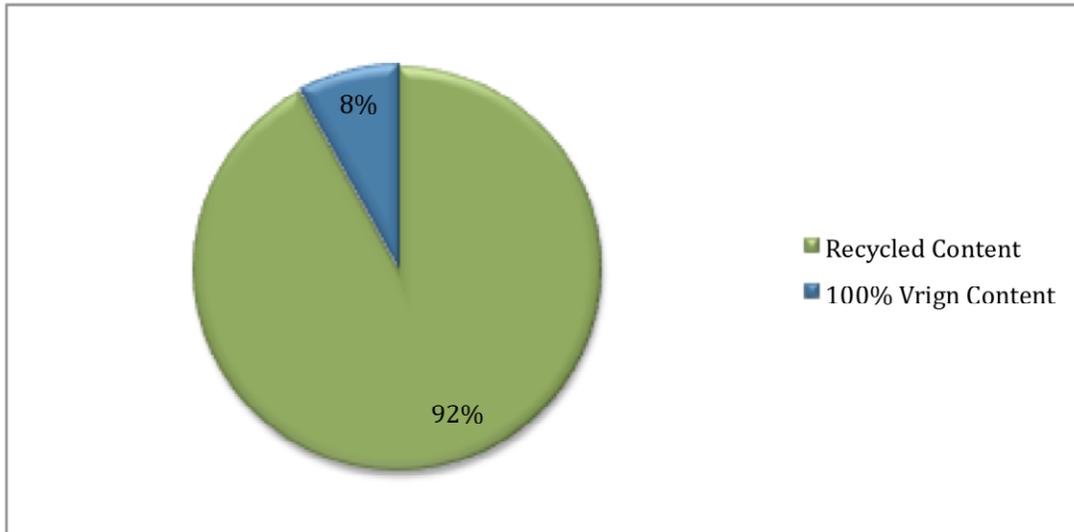


Figure 6. Percentage of reporting agencies that bought some printer/copier paper with recycled content (92%). Total paper with recycled content (238,883.00 reams).

“What percentage of paper bought by your agency contained recycled content?”

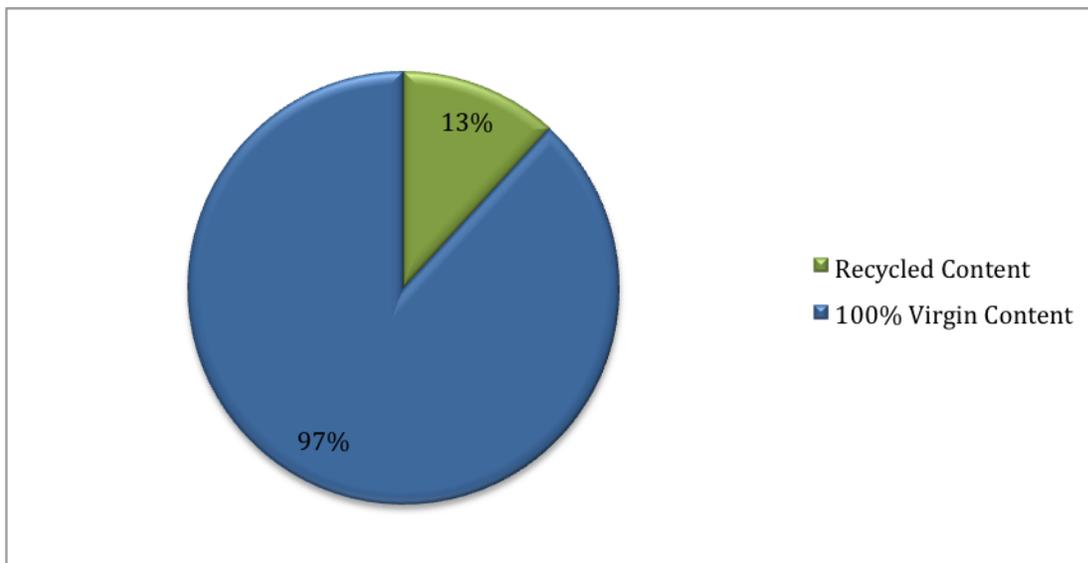


Figure 7. Percentage of paper bought with recycled content (13% of 1,914,322 reams)

## ***Green Cleaning***

The janitorial vendor at the Illinois Environmental Protection agency uses the *Envirox* line of cleaning products. These cleaning products are "Green Seal" certified. All cleaning products used by the Illinois State Board of Education are green friendly. The Office of Lieutenant Governor is currently exploring the use of green cleaning products in the Capital office.

At the University of Illinois at Urbana-Champaign, the Building Services division has been adding new green products or procedures each year since they began using green or EPA-approved products in 2000. In 2009, approximately 20% of the University's cleaning materials and equipment were Green Seal certified. **Today, that percentage is more than 50%.** Building Services purchased several ionized water cleaning systems. The use of these systems displaces the use of chemicals for cleaning, reduce operating costs, natural resource use, and improve indoor air quality. Hygiene-monitoring meters that read the cleanliness of the surface indicate that the ionator systems disinfect just as well and in some cases better than standard germicide chemicals.

## ***Vehicles***

The State of Illinois acquires vehicles through the U.S. General Services Administration. "The Office of Vehicle Acquisition and Leasing Services provides government agencies with quality vehicles and fleet management services at economical rates. By leveraging the government's large procurement volume, GSA is able to procure more than 65,000 vehicles annually at substantial savings to the government" (Source: *U.S. General Services Administration*, <http://www.gsa.gov/portal/content/104492>).

The State Police and IDOT have concluded their participation in the GSA vehicles saving program for this Fiscal year. The State has acquired **75** vehicles for an estimated savings of **\$592,500**. CMS, IDOT and ISP have exhausted their financial resources to continue this outstanding program. State agencies will continue efforts to obtain funding for FY-2012 and FY-2013 for this worthy initiative.

## ***Local Food***

The Illinois Department of Corrections is incrementally expanding the use of locally grown foods in accordance with the Illinois Food, Farms & Jobs Act ([Public Act 095-0145](#)). Additionally a large number of adult correctional centers maintain produce gardens with the produce used in their dietary departments. IDOC staff members have also been regular participants in the Green Government Coordinating Council's Procurement Sub-Committee.



Vegetable Garden at Lincoln Correctional Center

At the University of Illinois at Urbana-Champaign, the Dining Services Division of Housing has made great strides in sustainable practices. The Division purchases food from more than 17 local growers or processors. It also purchases dairy products from the University's own dairy farm.

The Office of the Lieutenant Governor plans to develop and circulate a policy to purchase local foods at office hosted/sponsored events.

### ***Logistics***

The Illinois Criminal Justice Information Authority uses CMS master contracts whenever possible to purchase goods and services. A printer/copier survey was conducted in July and as a result 27 copiers and printers were turned in and replaced by 7 Xerox multi-function machines. This resulted in a \$1,715 per month saving.

The Illinois Emergency Management Agency's Bureau of Environmental Safety has continued to emphasize the "Reduce" aspect of the "Reduce-Reuse-Recycle" model to provide environmental management. The Bureau continues to use a "Just-in-Time" purchasing strategy to reduce hazardous waste, and to employ strategic sampling methodologies to reduce the samples required to be analyzed while still meeting agency requirements. This directly translates into reduced hazardous waste production and disposal. IEMA is committed to broad-based recycling of materials.

The University of Illinois at Urban Champaign makes every effort to purchase wisely. The Purchasing Division identifies frequently purchased items for which recycled content items can substitute. Examples of reviewed items include the following: office supplies, paper products, building materials, lubricants, reprocessed chemicals, remanufactured parts, landscape products, and pavement materials. To ensure that a

larger percentage of the University's waste stream can be recycled, the procurement policy seeks to eliminate the purchase of non-recyclable materials when suitable substitutes exist. The University also has a policy regarding the purchase of energy efficient electronic equipment and appliances. ENERGY STAR rated items are required unless an alternative is justified economically.

Further, since the implementation of the University of Illinois *iBuy* web-based procurement system, most if not all invoicing is done electronically, saving a great deal of paper. In addition, having a central point for receiving has reduced transportation costs, traffic congestion, and therefore emissions. Moving forward the Purchasing Division is working to reduce packaging materials by suggesting delivery in durable totes, rather than cardboard boxes.

### ***CMS Surplus***

The Illinois Commerce commission procured various items from surplus: 8 File cabinets, 1 Wood cabinet, 11 Guest chairs, 1 Love seat, 2 Metal stands, 1 Wood/metal stand, 1 Mobile printer stand, and 13 Metal lamps.

The Illinois Department of Veteran Affairs has acquired the following items from CMS Surplus: 4 five-drawer file cabinets, 2 leather side chairs, 1 gray executive chair, 6 other chairs, 4 laptop cases on wheels, 1 mobile print stand, 1 folding table, 2 bookcases, 1 micro fridge, and 2 bulletin boards.

At the Department of Agriculture—State fair—items from CMS surplus include furniture, appliances, and office accessories: tables, chairs, stools, office chairs, file cabinets, outdoor benches, microwaves, refrigerators, hangers, coat racks, fans, concrete trash cans, lights, furniture for “Kids Korner,” paper products, etc.

The Office of Lt Governor acquired a conference table, chairs, and desks. The Office of the State Fire Marshal acquired 20 computers transferred in from another agency, and office furniture, including chairs, cabinets, shelving, from CMS surplus. The University of Illinois Springfield makes every attempt to reuse all furniture, before it is returned to CMS, for re-issuance.

## C. TRANSPORTATION

State agencies continue to use alternative transportation methods including car-pooling, public transportation and cycling. The department of Revenue has tied walking, cycling, and public transportation initiatives to employee health and CO<sup>2</sup> reduction campaigns. All agencies use video-, web- and teleconferencing technologies. In addition, large-scale fleet changes in some sectors of government have substantially reduced fuel consumption and emissions.

### *Alternative Transportation and Carpooling*

The Illinois Arts Council requires that staff members either car pool or take the train when attending events. Several individuals continue to ride their bikes to work. The Illinois Council on Developmental Disabilities continues to reduce agency travel through carpooling, walking and use of public transportation when feasible. A majority of the staff at the Illinois Gaming Board staff uses public transportation or car pool. The Illinois Environmental Protection Agency provides preferred parking to employees that carpool to work at its HQ building in Springfield, and two bike racks in covered areas.

The Department of Revenue participated in the Springfield-Sangamon County Regional Planning Commission's "Curb Your Car Challenge" in May. The department finished first in the large employer category and had, by far, more employees than any other agency who walked, biked, or bused to work during the week. The Sustainability Committee and the Revenue Employee Club led the effort to encourage employees to participate in this event through outreach efforts in the weeks preceding the event.

In an effort to extend this success, the Sustainability Committee and the Revenue Employee Club sponsored a department-wide "10-ton challenge" between July and September of 2010, during which it encouraged employees to walk, bike, bus or carpool to work. The goal was to reduce carbon dioxide emissions by 10 tons. More than 100 employees participated. Using accepted conversion tables for mileage commuted during this event, the Department of Revenue calculated that the CO<sub>2</sub> reduction **exceeded 30 tons.**

# Spotlight

## “REV Up Your Health”

The Department of Revenue’s summer 2011 program focused on encouraging employees to exercise. The “REV Up Your Health” program, which ran from June through September 2011, motivated employees to “Get Up, Get Active and Get Fit.” Employees were encouraged to increase (or start) their exercise activities, including bicycling and/or walking to work. Using conversion programs, the department calculated the employees exercise totaled 61,412 miles, including 6,260 miles commuting to and from work." The program earned them recognition in the Transportation category of the 2011 Green Governments Awards.

The Illinois State Board of Education makes every attempt to reduce agency travel and use of agency vehicles by ride-sharing. No additional vehicles were purchased or replaced in the past year by the Illinois Law Enforcement Training and Standards Board; where multiple employees are travelling to the same location, they car-pool. The Illinois State Police encourages employees to carpool to conferences and major meetings, whenever possible. The University of Illinois at Chicago is committed to alternative transportation through a variety of initiatives including bicycle racks across campus, U-PASS as student transit benefit, and links to PACE ride-sharing site. The University also sponsors a Sustainability Week Transportation fair which features *Lets I-Go* and *ZipCar* as alternative transportation options.

The University of Illinois at Urbana-Champaign has a long history of supporting public transit, walking, and bicycling—the most sustainable mode. Through a partnership with the Champaign-Urbana Mass Transit District (MTD), all members of the University ride the bus for free. Over ninety percent of students use an alternative means of transportation to get around the community. In January 2009, Illinois provided yet another form of alternative transportation: *Zipcar*, a membership-based, car-sharing program with cars available by the hour. Car sharing reduces trips and each car share vehicle is expected to take 15 personal vehicles off the road. Champaign-Urbana has 12 cars with over 300 members.

The many exciting improvements for bicycling on campus have earned Illinois national recognition as a Bronze Level Bicycle Friendly University by the League of American Bicyclists. The University District Bicycle Master Plan has been developed in cooperation with MTD, the City of Urbana, the City of Champaign and the Regional Planning Commission. The Department of Kinesiology and Community Health has in place a pilot bike-sharing program, where members of their department can borrow a

bicycle to get around campus. A Fall 2011 Engineering Learning in Community course is working to expand this program across campus. In March 2010, the University partnered with The Bike Project cooperative to open a Campus Bike Project (CBP), which provides a do-it-yourself workspace for bicycle repairs with tools and knowledgeable volunteers. All abandoned bikes are donated to CBP where they are refurbished, scrapped for parts, or recycled. Also, the University Police Department has 10 officers patrol on bikes and recently acquired two *Sentinels*. The *Sentinels* are electric, three-wheeled vehicles equipped with lights and a siren. Like bicycles, the *Sentinels*, allow officers to patrol and quickly respond to areas that are not easily reached by squad cars.

### ***Teleconferencing and Logistics***

The Department on Aging coordinates its department errands providing the opportunity to save the number of trips made to other state buildings. Videoconference facilities are used whenever possible to reduce travel. The Office of the Auditor General continues to promote compressed work time, flex-time schedules, and work at home options to reduce energy consumption. At the Civil Service Commission teleconferencing is used for agency representatives to “attend” Civil Service Commission monthly meetings. The Illinois Council on Developmental Disabilities continues to reduce agency travel by utilizing teleconferencing whenever possible. The Council also rents smaller/hybrid vehicles for travel when available. The Department of Revenue is exploring the feasibility of an agency-wide (or facility-wide) 4-day workweek to save electricity, water, cleaning services, gas emissions, etc.

Transportation at the Illinois State Board of Education has been reduced through conference calls and webinars. This fiscal year the Board made 657 conference calls and participated in 346 videoconferences. The Board also hosted **109 webinars for 13,734 attendees**. The Illinois State Police is striving to reach an ambitious fuel reduction target by using videoconferencing and conference calls instead of travel when possible. ISP is also reviewing fleet data to determine if required vehicle maintenance is being performed in a timely manner, and promoting driver responsibility by emphasizing proper vehicle tire pressure.

The University of Illinois at Urbana-Champaign excels in all aspects of sustainable logistics. This year, a website with active transportation resources will go live that will include maps, project lists, descriptions of transportation partners, club member options, and safety tips. Campus is also working with community transportation planners through the Regional Planning Commission to implement a mode choice component of the travel demand model, a micro simulation of the travel patterns in the University District by mode, and a complete review and assessment of traffic circulation conditions. These models and the circulation study will help the University and community partners evaluate recent improvements and make recommendations for additional enhancements for all travel modes on campus.

“How often does your agency use video-, web-, and teleconferencing?”

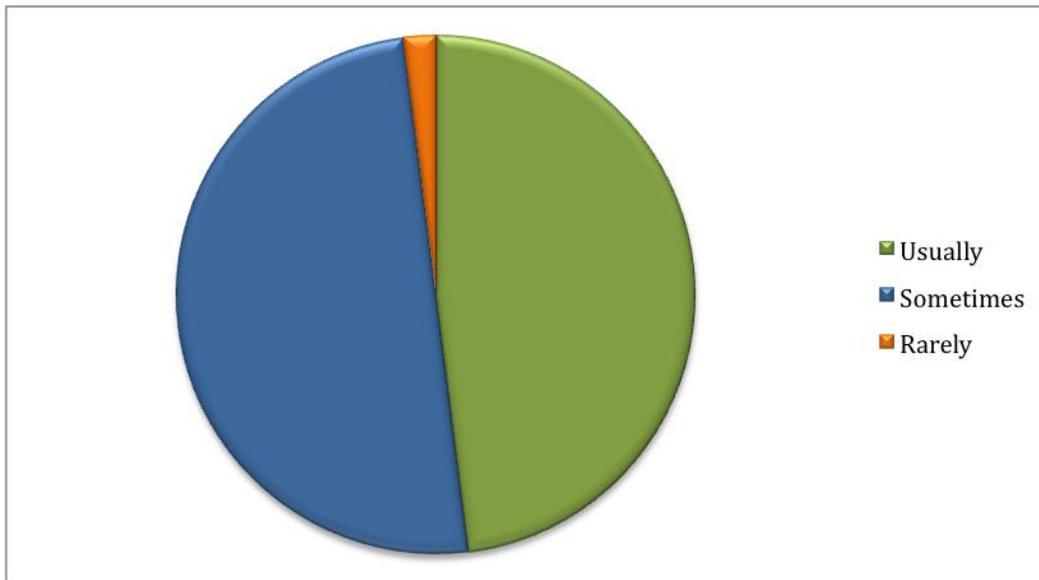


Figure 8. Video-, Web-, and Teleconferencing

### ***Fleet Changes***

The Illinois State Police has an objective to reduce agency petroleum use 20% by July 1, 2012 when compared to FY-2008 levels. It is also committed to decreasing its use of conventional fuels by 2% annually. Accordingly, ISP is replacing many of its older mileage vehicles with current model vehicles with better gas mileage, most of which are also flex fuel. The percentage of flex fuel vehicles has risen from 29.3% to 31.7%, a 2.4% increase. The agency is also replacing the Central Headquarters Pool, used mostly by civilians, with some compact vehicles and hybrids. ISP purchased 451 vehicles during FY-2011 to replace high mileage, older model vehicles.

The Illinois Prisoner Review Board has recently updated its entire fleet to E-85 compliant vehicles. The Illinois State Board of Education fleet now consists of 10 vehicles: 3 new flex-fuel vehicles were purchased at the end of FY-2011 and the 3 aging vehicles were sent to surplus. Among the sustainability goals at that the Office of the Lieutenant Governor are adding an electric car to the Chicago fleet, and trading a traditional car for a hybrid at the Carbondale office.

The Illinois Emergency Management Agency in conjunction with the Illinois State Police has piloted a program to fit a single vehicle with inspection, security, and response equipment. The pilot was a great success and has been implemented as policy. Return on IEMA’s investment to outfit is remarkable and includes resource conservation in the

form of fuel savings, vehicle maintenance savings over the life of the program, and reduced logistical issues for individual ISP districts.

All of the Motor Pool vehicles at the University of Illinois at Springfield average between 30-35 MPG on the highway. Some vehicles are E-85 and all others can use ethanol, or a percentage of ethanol with unleaded gasoline. Instead of purchasing new maintenance vehicles for the trades, the University secures used vehicles from the CMS Surplus Vehicle Department. However, the University recently purchased an electric golf cart, which can be used by maintenance trades on short on-campus trips, and is a fuel-efficient alternative to service vans.

Some vehicles in the University of Illinois at Urbana-Champaign campus fleet have been switched to ethanol fuel blend E85. Illinois has also been experimenting with several types of sustainable vehicles including e-ride utility trucks, Global Electric Motorcars (GEMS) and Mini Trucks. Illinois has two e-ride utility trucks in the service fleet. Powered by nine eight-volt batteries, the all-electric trucks produce none of the ozone-depleting emissions of gas-powered trucks, and do not require hazardous chemicals such as antifreeze and oil.

All-electric vehicles are not a new concept for the Car Pool, which has had eight GEMs (small electric vehicles) in its fleet since 2004. However, unlike the GEMs, the e-ride trucks are designed specifically for utility tasks and can haul about 1,200 pounds of cargo. Campus Mail, the Paint Shop, the Locksmith Shop and several other units have been test-driving eight Mini Trucks from several different manufacturers to gauge their suitability and durability as service vehicles. Although the Mini Trucks are gas-powered, they have smaller engines than full-size utility trucks and offer better fuel economy.

## **By the Numbers**

How many total vehicles are in your fleet?

Statewide totals (reported by CMS)

Total Vehicles: 11,958

- Conventional gas vehicles: 5,439
- Hybrid vehicles: 81
- Flex-fuel (E-85) vehicles: 3,773
- Diesel vehicles: 2,655

### ***Fuel Reduction and Alternatives***

The Department on Aging encourages drivers to purchase E-85 fuel in department pool cars when available. Aging distributed a list including a map of stations in Illinois that sell E-85 fuel to each of the State vehicles driven by department employees. Emails outlining tips for reducing fuel consumption was sent to department drivers. All employees at the Illinois Criminal Justice Information Agency are encouraged to use E-85 when possible. Maps and information on CMS garage locations and eco-friendly gas station location are in the glove box of all agency vehicles. The Office of the Lieutenant Governor is identifying free E-85 applications for Blackberries, iPhones, and Androids and will encourage employees to install the apps to find stations when they are traveling. The Office also plans to track mileage over the next year and set a reduction goal.

In order to reach its overall fuel reduction and conventional fuel reduction objectives the Illinois State Police has implemented a wide variety of initiatives. In addition to purchasing more fuel-efficient and flex-fuel vehicles, the agency encourages employees to refill E-85 vehicles with ethanol fuel, and provides on-line access to listings of Illinois E-85 filling stations. Conventional fuel purchases in FY-2011 were reduced by 73,376 gallons, representing a 3.37% decrease from FY-2010. Overall ISP consumed 1.7% fewer gallons of fuel in FY-2011 than in the previous fiscal year. **Since 2008, ISP has decreased overall fuel consumption by 17%.**

The University of Illinois at Urbana-Champaign employs various technologies to measure and reduce fuel use. A new computer system that interfaces with modules inside many 95 vehicles in the service fleet enables Facilities & Services to wirelessly download detailed data about each vehicle's fuel consumption and the amount of time the engine spends idling. Foremen have been asked to work with their crews to reduce the amount of time that service vehicles spend idling whenever possible to help conserve fuel. A pilot GPS system is being tested that can link the high-idling times with specific drivers.

## By the Numbers

How many gallons of fuel were consumed by your fleet vehicles in FY2011, in total and by type below?

Statewide totals (reported by CMS)

Total Gallons: 10,120,814

- Conventional gasohol: 6,410,168
- E85: 165,118
- Conventional diesel: 1,112,599
- Biodiesel: 2,432,929

“Please indicate which programs your agency conducts to reduce the consumption of petroleum-based fuels.”

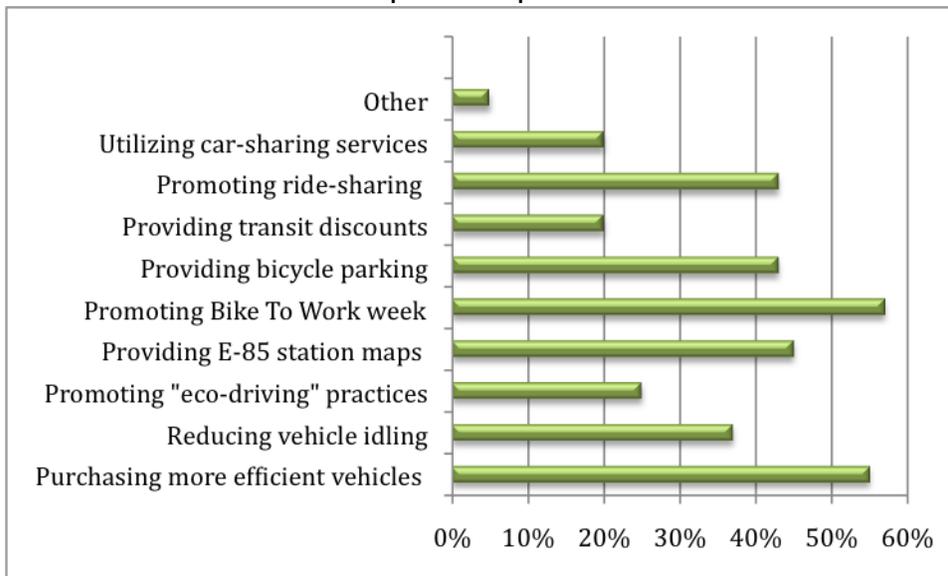


Figure 9. Fuel Reduction Programs (% of reporting agencies)

## D. FACILITIES MANAGEMENT

Agencies have continued to raise building management standards to reduce negative environmental impacts. “Green” facility management initiatives include wise investments in alternative energy, energy-efficiency retrofits, sustainable landscaping, and water conservation. Central Management Services and the Department of Corrections have made a significant positive impact by reviewing, improving, and expanding regional and statewide recycling practices.

### ***General Building Management and Standards***

Central Management Services Bureau of Property Management continues to program all new lease acquisitions under sustainable guidelines soon to be defined by a new set of rules to be submitted to JCAR (Joint Committee on Administrative Rules). CMS reduces the spatial footprint of leased properties through the following measures: programming new acquisitions below a prescribed benchmark of 275 rentable square feet (or 200 usable square feet) per person; consolidating leased space into other facilities; and the negotiation of rate reductions has yielded a cumulative first year savings of \$35 million. Since July of 2007, CMS has eliminated 1 of every 5 square feet of leased space, 1 of every \$4 of direct lease costs, and 1 of every 3 leases in the statewide portfolio.

**The Quinn Administration is responsible for over 89% of the area reduction, 92% of the cost reduction and 54% of the number of lease reductions.** With utility costs averaging 10.6% of annual direct lease costs, an estimated \$3.5 million is saved annually as a result of reducing the spatial footprint of the leased property portfolio.

The Illinois Office of the Comptroller is drafting a program statement for a new facilities lease, which will include additional energy conservation and other Green initiatives.

### ***“Green” Power***

In FY-2011 Central Management Services increased its investment in green power and reduced costs. Before Governor Quinn took office in January 2009, the State was contracted to purchase 24.5 million kilowatt-hours in green power through the statewide contract. FY-2011 green power purchases were approximately 177 million kilowatt-hours. The overall price of that power, including the increased green purchase premium, resulted in a more than **10% reduction in supply costs** over FY-2009 levels.

The University of Illinois at Urbana-Champaign is committed to reducing its carbon footprint. A significant obligation related to the **Illinois Climate Action Plan** includes ceasing the use of coal at the campus power plant by 2017. Accordingly, Facilities & Services has contracted with a professional consultant to help develop a Utilities Energy Production and Distribution Master Plan. This plan will evaluate the existing

infrastructure of Abbott Power Plant, as well as provide analyses necessary for using alternative fuel sources. The plan will also recommend a strategy for reaching the goal of **eliminating coal by 2017**.

Agencies investing in various alternative energy sources include the Department of Revenue, the Department of Human Services, and The Illinois Department of Corrections.

Alternative energy also helps the State reduce its carbon footprint. The Illinois Environmental Protection Agency reports the following climate-change initiative and results:

In 2007, the Governor's Office enrolled the executive branch side of State Government in the Chicago Climate Exchange (CCX), the first rules-based greenhouse gas reduction and trading program for emission sources and offset projects in North America. The State of Illinois joined CCX as a Phase II member. This committed executive branch state agencies to cut emissions by 1.5% each year below baseline for the period 2007 to 2010, thereby achieving a total reduction of 6% by the end of the fourth year.

Illinois EPA (IEPA) was designated as the lead agency for managing the CCX project. Working with the Department of Central Management Services, Capital Development Board, and state power providers, IEPA prepared the baseline greenhouse gas emissions inventory for executive branch operations. The year 2000 was chosen as the baseline year, with greenhouse gas emissions estimated to be over 790,000 metric tons. The inventory included direct emissions from on-site combustion of fossil fuels (e.g., coal, natural gas, petroleum) in buildings, equipment, and vehicles. It also covered indirect emissions from the purchase of electricity and natural gas at state-owned or leased buildings, including the Capital Complex in Springfield.

While direct emissions remained relatively stable over the four-year period, indirect emissions from buildings were reduced due to energy efficiency measures and the purchase of electricity from renewable energy resources (primarily wind energy). The State's executive branch government exceeded the emission reduction targets for the years 2007, 2008, and 2010. In 2011, CCX transitioned to an offsets registry program. Information on the Chicago Climate Exchange is available online at <https://www.theice.com/ccx.jhtml>



Wind Energy Helps the State Reduce its Carbon Footprint

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***Caught Green-Handed . . . Collaborating Broadly to Reduce Emissions Far and Wide***

Kevin Greene, Manager—Office of Pollution Prevention, Illinois Environmental Protection Agency



Kevin Greene has kept the Chicago Climate Exchange program alive and highly successful since 2007, when the Governor’s Office enrolled the executive branch side of state government in the Chicago Climate Exchange (CCX). Participation in the program has served as a model for how state government and others can “lead by example.” The Illinois environmental Protection Agency and Central Management Services gained valuable experience in understanding the tools and resources needed to prepare a baseline inventory and annual emissions reports. The lessons learned will be helpful in identifying where the greatest efficiencies can be achieved for future emissions reduction activities in state government operations.

Kevin Greene is the manager of the Office of Pollution Prevention at the Illinois Environmental Protection Agency (IEPA). He leads the agency’s efforts to promote pollution prevention through technical assistance, voluntary recognition and product stewardship initiatives. He has been with IEPA since 1996. Kevin is a member of the Illinois Green Governments Coordinating Council, in which he serves on the energy efficiency, green purchasing and campus sustainability subcommittees. Prior to joining IEPA, Kevin worked for three nonprofit environmental organizations. He authored the State’s first pollution prevention law in 1988. Kevin holds a B.A. in Sociology from the University of Illinois at Urbana-Champaign.

## By the Numbers

### Chicago Climate Exchange Emission Reduction Schedule (Years and Emissions Reduction Targets, below 2000 baseline)

- 2007 1.5 % below baseline
- 2008 3 % below baseline
- 2009 4.5% below baseline
- 2010 6% below baseline

Note: The State's executive branch government exceeded the emission reduction targets for the years 2007, 2008, and 2010.

### *Energy Efficiency Retrofitting*

The Department of Central Management Services continues to collaborate with the Capital Development Board and the Department of Commerce and Economic Development to accelerate the implementation of energy efficiency upgrades to state-owned and leased facilities within the Executive Agency Portfolio. In FY-2011, in the aftermath of a CDB-managed HVAC renovation project, this department noted a **68% reduction in energy** intensity at the Michael A. Bilandic Building, a major State office hub in downtown Chicago, which resulted in the building receiving the Energy Star Label. CMS also noted an **annual 2.3 million kilowatt-hour usage decline** at the James R. Thompson Building. This achievement at the State's largest single office building was a product of a variety of in-house and contract-driven lighting upgrades.

## Looking Ahead

CMS has initiated energy audits of 5 significant sites to identify future upgrade opportunities, and has identified 130 others to follow up on in pursuit of potential energy upgrades.

On the macro-level, CMS has noted an over **10 million kilowatt-hour reduction in electricity usage** since Governor Quinn took office in January 2009. Working through the Energy Efficiency Committee, they have worked to fast-track the use of the guaranteed energy savings contracting process. CMS has also encouraged the landlords of six leased properties to utilize Energy Efficiency Portfolio Standards program rebates to facilitate lighting upgrades that will reduce energy usage and cost attributable to the State as a customer by over 869,000 kilowatt-hours and \$86,000 respectively.

## Looking Ahead

The Department of Revenue has requested an energy efficiency project for the Willard Ice Building in its annual Capital Budget Request. The proposed energy saving projects include a wide variety of cutting-edge HVAC, lighting, and water-conservation retrofits including a new control panel, “air to plate” heat exchanger, LED fixtures and lamps, photo cells for all outdoor lighting, and motion-sensor switches in 30+ conference rooms. The Department also proposes to study the application of solar technology and the re-use of grey-water. Projects requested in the FY-13 Capital plan for the Willard Ice Building would drastically reduce the department’s carbon foot print and reduce operating costs by an estimated 30%.

The Department of Human Services is committed to a wide variety of energy-efficiency retrofits at various locations. These include HVAC, plumbing, insulation, lighting, and alternative energy projects. At the Fox Developmentally Disabled Center, DDHS has already replaced two hot water heaters with on-demand water heaters using funds from an ARRA Energy Efficiency and Conservation Block Grant. Among the many planned projects are the following: closed-loop piping retrofits, power plant upgrades, window and insulation retrofits, gas conversions, and solar panels.

The Department of Agriculture—State Fair—is installing high efficiency lights in the main Agriculture building. In addition, a high efficiency HVAC system was installed in the past year.

The Illinois Historic Preservation Agency reports an HVAC renovation project fit for a President. The renovation of the HVAC system at the Lincoln Tomb was completed in January 2011. This project includes a geo exchange unit. This project also disconnected a domestic water source cooling system that was very wasteful of water. The complete project data on energy and water savings is impressive and earned IHPA an Energy Efficiency & Conservation award at the 2011 Green Governments Awards.

## Did you know?

Abraham Lincoln said, “You cannot escape the responsibility of tomorrow by evading it today.”

The University of Illinois at Urbana-Champaign continues to lead the way in sustainability at all levels of its operations. In tandem with other energy conservation efforts, utility meters in more than 85 campus buildings have been repaired, replaced, or upgraded. Accurate metering has facilitated more informed decision-making regarding project selection and resource use. Beginning in FY 2012, the campus will implement a unit-based energy billing system. This billing system represents a major shift in responsibility for utility expenses, shifting the opportunities for conservation from the campus level to the unit level.

The metering upgrades have also contributed to a new Energy Dashboard system. The energy dashboards will be displayed in strategic areas across campus to provide understandable information and to encourage more responsible use of resources. Administrators and students are also collaborating to develop an appropriate framework for a revolving loan fund that will assist in providing resources to future conservation projects. Efforts are underway to determine funding sources and project selection criteria.

The University of Illinois at Springfield has a progressive energy-efficiency policy. All new construction at the University is designed to meet a minimum of LEED Silver standard (though the University does not pay for the "certification" of that standard). The University has **changed out over 95% of all lighting fixtures and ballasts**, to higher efficiency fluorescent lighting and has installed occupancy sensors in almost all classrooms and restrooms. The University has also begun testing with exterior LED lighting.

The University of Illinois at Springfield also promotes energy conservation by raising thermostats in the summer two degrees and lowering it in the winter, two degrees. The University recently refurbished its main boiler and is actively looking at new projects to make its heating and cooling systems more energy efficient.

Northeastern Illinois University has replaced lighting fixtures and lamps, installed motion sensors, and retrofitted exit signs to achieve greater energy efficiency. Northeastern also uses low VOC paint. Southern Illinois University Edwardsville has completed lighting retrofits, purchases high-energy efficient appliances and electronics, and uses low VOC paints.

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***Caught Green-Handed . . . leading energy-efficiency retrofits***



Eliseo (Al) Rios, Bill Keating, Russ Zwierzynski— Central Management Services, JRTC “Go-To” Green Team

Al Rios has been the team leader and advocate behind in-house lighting retrofit projects at the James R. Thompson Center (JRTC) and the Michael A. Bilandic Building (MABB). He and his fellow electricians, Bill Keating and Russ Zwierzynski, have devoted their expertise and creativity to identify and quantify measures, which have benefitted the taxpayers of Illinois through improved operations at these flagship buildings. They have also been the CMS technical experts in the development of an expanded scope of contractor-driven lighting retrofit projects being implemented through the Capital Development Board.

They have been highly motivated and extremely thorough in documenting the materials and supplies needed to perform the in-house work and quantifying the pre-project and post-project lighting outputs. Their knowledge of the electrical systems at the two buildings is second to none and their enthusiasm for reduced energy consumption is infectious.

Thus far, utility data has confirmed that the JRTC has reduced its annual electricity consumption by over **2 million kilowatt-hours since 2007**, with at least one-third of that reduction coming from the lighting retrofits already completed. The savings have not come at a cost of comfort or function. In fact, the new bulbs and ballasts are producing such superior output that CMS has succeeded in turning off almost 40% of the existing fixtures while maintaining the pre-project functional light levels. These savings will grow significantly when the CDB project has been completed. Al and his team are now beginning to focus on the MABB in-house project, where they expect to have a significant impact.

Team leader, Al Rios hails from New Lenox and has been a State employee since 1985, when the JRTC opened. Bill Keating, from Bridgeport, has served the State since 2008. Russ Zwierzynski is from Oswego, and has been a State employee since 1994.

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## ***Landscaping***

The Illinois Department of Corrections remains a leader in sustainable landscaping and environmental stewardship. This fiscal year the Dwight Correctional Center implemented the "Planting for the Future" program. Through this program **100 donated trees were planted** throughout the facility's grounds. In a budget neutral move dead or damaged trees were removed, shredded and used as mulch around the newly planted trees. The new initiative will help cool the facility's buildings and create additional habitat for wildlife. Grounds improvement projects also engage offenders in meaningful work and create a more calming environment.

At the Lincoln Correctional Center mulch is created through composting garden/lawn waste. The facility deadheads marigolds to reclaim seeds for and future plantings and uses donated horse manure for fertilizer. The Department of Corrections also collaborates with the Department of Agriculture—State Fair—on sustainable landscaping initiatives. The DOC uses compost, water from water barrels, and native plants in DOA landscaping projects. Moreover, ICI-Menard participates in the Executive Mansion Vegetable Garden, which received a GGCC award in the Sustainable Education & Outreach Category in 2010.

In a joint venture, the Illinois Department of Transportation, the Illinois Department of Corrections, the Illinois Department of Natural Resources, Prairie Dog Volunteers and Brimfield High School students **planted 5000 prairie plugs at Jubilee College State Park**. IDOT also uses native plants, compost and efficient stormwater management in many projects throughout each year. Erosion control practices include dredging and repairing overgrown ditches with seed and blanket. The Department also uses plant material grown by IDNR in rest areas.

At the University of Illinois at Urbana-Champaign nearly 100% of campus landscaping waste is composted or mulched. Any trees that are removed are chipped and reused leaf debris that is stored and composted for use on campus; grass clippings are returned back to the lawn. The clippings are not bagged, except for rare instances of long grass in high profile areas.

The University has also identified and implemented 10 No-Mow Zones across campus. Benefits from this effort include lower maintenance costs, fewer emissions from mowers, and the attraction of wildlife to campus. Eventually, some of these areas may be restored to a true prairie ecosystem. In June 2009, two large prairie plantings were installed at the College of Veterinary Medicine and **a 2.5-acre prairie was planted** near the President's House.

In May 2009, a student-run farm began operation. The produce harvested from this farm is sold to Dining Services for use in the residence halls. Items grown at the student farm include lettuce, tomatoes, radishes, onions, carrots, and peppers, among others.

The University of Illinois at Springfield processes all tree clippings into wood chips for further use as a mulch and protector for the existing trees on campus. The University also receives wood chips from local tree service businesses, diverting them from the city compost. All compost is mixed with topsoil and used on campus. This practice eliminates the need to purchase costly mulch while diverting a considerable amount of landscape waste from the waste stream. It is estimated that 140 cubic yards or **66,080 pounds of wood chips are processed and reused on campus yearly**. In addition, the compost extends topsoil and improves soil structure.

In FY-2011 the Southern Illinois University Edwardsville completed a rain garden to manage stormwater on campus, and, in December 2010, the Board of Trustees approved a land-use plan to create a **380-acre nature preserve** on campus. This plan was presented at the 2011 GGCC Sustainable Universities and Colleges Symposium.

### ***Water Conservation***

The Office of the Auditor General has installed low water use toilets and quick heat/reduced flow water faucets. The ICI-Menard Program partnered with the Illinois Department of Transportation in their K-5 Rain Barrel Design Contest which was awarded in the 2011 GGCC Green Governments Award, Water Quality & Conservation Category.

This fiscal year, the Illinois State Toll Highway Authority installed a bioswale, and adaptive vegetation, and removed areas of the irrigation system at its headquarters in an effort to reduce local stormwater pollutants and to reduce the amount of water utilized for irrigation purposes.

The University of Illinois at Urbana-Champaign is aiming for the target set by the Climate Action Plan to **reduce potable water usage and its associated emissions 20% by 2015**. The Campus has begun to utilize efficient water fixtures, including low-flow aerators for faucets, dual-flush and high efficiency toilets, high-performance low-flow showerheads, and pint urinals. These fixtures will continue to be utilized in new buildings and retrofits and newer technologies to improve upon these efficiencies will be researched and harnessed. In addition, all of the residential dining halls are tray-less dining facilities. The implementation of tray-less dining has reduced post-consumer waste by almost 5 tons daily, **saved 194,145 gallons of water per academic year**, 817 pounds of dish detergent, and 50 pounds of rinsing additive.

### ***Recycling at State Facilities***

The Illinois Department of Corrections is closing the loop on resources as it sets an example in waste reduction. The Illinois Correctional Industries Program at Menard recycles Waste Vegetable Oil (WVO) from correctional centers throughout the State. The WVO is collected in recycled shipping totes acquired with the assistance of The University of Illinois' Illinois Sustainable Technology Center. When full, those totes are transported back to the Menard facility on back hauls by ICI Trucking. The WVO is then processed into B100 Biodiesel used to fuel the vehicles and equipment needed to operate ICI's community based recycling program.

Illinois Correctional Industries at Menard has entered into a cooperative agreement with Randolph County to expand services at ICI's community based Recycling Center. The county government granted fiscal resources to ICI that have allowed for both a building expansion as well as the purchase of equipment that will enable ICI to more than double the amount of recyclables the center can process.



Illinois Correctional Industries-Menard Recycling Center

Recycling at the Du Quoin State Fair was a cooperative effort between Du Quoin Fair staff and ICI-Menard, with the help of the staff and offender work crews from Du Quoin IIP. The efforts of Jeff Mason were the key to the success of this endeavor. As in past years the proceeds from the sale of the aluminum collected were forwarded to the Combined Veterans Appeal to support their advocacy of Illinois' Veterans. Proceeds from the sales of the other recyclables collected are deposited in the ICI 301 Working Capitol Fund to help support the fiscal sustainability of Illinois Correctional Industries and more specifically the ICI-Menard Recycling program in their mission to provide both

public service and “green collar” vocational training opportunities to the offenders assigned to the program.

These inspirational efforts at IDOC/ICI-Menard secured the agency a 2011 Green Governments Award in the category of “Waste Reduction & Recycling”.

At the University of Illinois at Urbana-Champaign the Waste Transfer Station currently recycles or diverts from landfill **52% of the University’s waste**. The Illinois Climate Action Plan calls for the development of a zero-waste policy by 2011, and an improved **waste diversion rate of 75% by 2020**.

Recycling of demolition and construction waste has become standard practice for the Urbana campus. In 2007, a dining facility was demolished and 77% of the waste was recycled. More recently, two dining halls were demolished with a **97% diversion rate**, both beyond the standard LEED minimum rate of 75%.

In July 2011, Property Accounting (often called Surplus) started using the State’s two contracted electronics recyclers. The new process is effectively centralizing recycling with State vendors and assists the State of Illinois in both compliance with recycling and saving money.

Through a partnership with the Illinois Biodiesel Initiative, Dining Services donates 100% of its waste vegetable oil for conversion to biodiesel. At the end of the academic year when students move out of the dormitories, Housing donates many of the items left behind to local charities. University Housing annually donates approximately 16,000 pounds of clothing and other goods to charity.

The University of Illinois at Springfield promotes paper, aluminum, plastic, battery, and toner recycling. On a "per student" basis, the University has reduced waste generated from 1987 to 2010 by almost 47%.

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***Caught Green-Handed . . . diverting 180 tons of food waste***

Mike O’Grady—Grounds & Fleet Services, Illinois State University



In January 2011, Illinois State University began accepting food waste for composting from non-residential community entities. ISU’s Community Food Waste Composting project is a public/private collaborative to divert food waste from the landfill, and, as of third quarter reporting, nearly 180 tons of food waste had been received at the University’s composting site.

While there are a number of people and organizations involved, the driving force behind the endeavor is Mike O’Grady. Mike has worked unfailingly to overcome internal and external hurdles to the project, and is an outstanding liaison between the University, the community, and the private businesses that participate in the program. State support has come from the Department of Commerce & Economic Opportunity and multiple state legislators. Municipal governments have supported the project, and some county facilities divert their food waste to the site as well.

Mr. O’Grady is a key force in accomplishing these successes. As a 35-year employee of the State he has spent the better portion of his career working with state and local governments, as well as community and business to accomplish the University’s mission. These mutually successful relationships provided the foundation of trust and cooperation that were needed to undertake such a pioneering endeavor. The program has attracted small and large businesses in the community including State Farm, Country Companies, Jewel-Osco and Caterpillar. As a state institution, ISU is delighted to have provided an opportunity to contribute to the economic and environmental health of Illinois.

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***Caught Green-Handed . . . expanding recycling programs***

Chris Grissom, Superintendant—Illinois Correctional Industries, Department of Corrections



ICI-Menard has been an active participant with the GGCC and member agencies for a number of years. Grissom has attended both county commission and city council meetings to be available to discuss and promote the recycling services ICI provides in partnership with the county and local municipalities. Additionally he has been invited as a guest speaker to talk about IDOC/ICI programs from a variety of community organizations and participated in a roundtable at the annual Illinois Recycling Associations Annual conference this past June.

Grissom has been an advocate of “Green Cleaning” programs/products and helped establish ICI as one of the first Correctional Industry programs in the nation to offer a full line of third party certified green cleaning products. Grissom was also one of many stakeholders who participated in the establishment of Illinois “Green Cleaning Schools” Act.

ICI-Menard has worked extensively with Du Quoin State Fair staff to provide recycling services, throughout the year. Special Events Recycling is growing both in importance and prominence throughout the nation.

Grissom regularly participates in GGCC sub-committee meetings, quarterly meetings, and symposiums. A casual conversation at one of these meetings launched the ICI rain barrel initiative. That lunch conversation has resulted in well over 1,000 ICI manufactured drums being reused as rain barrels and placed throughout Illinois including the State's fairgrounds, rest areas, and even the Executive Mansion.

During Grissom's tenure as the Superintendent, ICI's Menard has been given 5 GGCC Awards; 3 Governor's Sustainability awards from the University of Illinois; a "Beautify Southern Illinois" award from Southern Illinois University; and several Proclamations from Randolph County and a host of municipalities in recognition of ICI's various, robust recycling programs and services.

Chris Grissom has worked for the State of Illinois for 27 years with the vast majority of it doing time with the Illinois Department of Corrections. Grissom is currently the Superintendent overseeing Illinois Correctional Industries programs at the Menard Correctional Center. ICI programs at Menard include Waste Removal and Recycling, the manufacture of third party certified and bio-renewable green cleaning products and biodiesel production.

In commenting on the role of the GGCC, now under the leadership of Governor Pat Quinn, Grissom said "The Green Government Coordinating Council has been the catalyst for a broad variety of positive initiatives within Illinois government. It's truly serves as an example of how government works when it's at its best". The same quote could be applied to Grissom and his career of stunning sustainability efforts.

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## **E. CONSTRUCTION AND RENOVATION**

Building improvements this year include a number of new LEED-equivalent buildings and various large-scale renovations to improve energy efficiency and reduce energy and maintenance costs. Renovations include “white roofs”, lighting retrofits, HVAC upgrades, and window replacements. In infrastructure improvements, the Department of Transportation has used millions of tons of recycled materials in highway construction, and the Illinois State Toll Highway Authority is researching and implementing various technologies to make infrastructure construction more environmentally sensitive.

### ***New Buildings and Additions***

“New buildings and major renovations of 10,000 square feet or more must achieve the silver building rating of the LEED (Leadership in Energy and Environmental Design) rating system for new commercial construction and major renovation projects, as established by the United States Green Building Council, or an equivalent standard, including, but not limited to, a two-globe rating in the Green Globes USA design program.” (Public Act 096-0073).

This fiscal year the Department of Human Services has made major renovations to a number of its buildings in addition to a wide variety of lighting and HVAC retrofitting projects. The Department has replaced three old roofs with energy-saving “white roofs,” replaced windows at various locations, and installed solar panels at their Mabley facility.

Southern Illinois University Edwardsville has four buildings under construction that will receive LEED certification and commissioning: a science building, and additions to Art and Design, Engineering, and the Vadalabene Center. The University is also currently replacing windows in all core buildings from single pane to high-energy efficiency windows, and is in the process of completing the STARS assessment in order to write a campus sustainability plan.

In FY-2011 one of the buildings that housed 2 offices for the Office of the State Appellate Defender located at 20 North Clark in Chicago was given the LEED certification. Additionally, the Mt. Vernon office moved to a new building and the Deputy Defender required the building developer to use cellulose blown-in recycled insulation, insulation between all office walls, geo-thermal heating/air-conditioning, high efficiency fluorescent lighting, electric eyes in all bathrooms, energy-efficient water reduction toilets and low e-glass on all windows.

The Illinois State Toll Highway Authority will be pursuing LEED EB: O&M for the CA building during FY-2012. In addition the Tollway has employed Grid Set Green Adhesive

2000, recycled lumber for its “M-1” remodeling project, and recycled metal studs and cabinetry on numerous projects.

The Tollway has also completed a major energy-efficiency lighting retrofit project. The 360 Energy Group performed a lighting audit of the Tollway Central Administration building and submitted a plan for the retrofit of the lighting system to reduce the usage by 36,768 Kilowatt hours per year. The retrofit will reduce the production and emission of the following pollutants: (emissions are in pounds per year) carbon dioxide emissions by 82,728, sulfur dioxide emissions by 643, and nitrogen oxide emissions by 301. This plan entailed installing new and replacing existing fixtures with fluorescent lamps and electronic ballasts. Work was completed by in-house staff in May 2011, and with a rebate under the Public Sector Electric Efficiency Program was completed at no cost to the Authority.

At the University of Illinois at Springfield all new construction is designed to meet a minimum of LEED Silver standard (though the University does not pay for certification). The University has **changed out over 95% of all lighting fixtures and ballasts** to higher efficiency fluorescent lighting, installed occupancy sensors in almost all classrooms and restrooms, and has begun testing with exterior LED lighting. The main boiler was recently refurbished and the school is actively looking at new projects to make campus heating and cooling systems more energy efficient.

The University of Illinois at Urbana-Champaign is committed to sustainable building design. The University’s Facility Standards and Design Guidelines require all new construction and major renovations over \$5 million obtain LEED Gold certification under the U.S. Green Building Council's LEED Green Building Rating System. All projects less than \$5 million are asked to be designed to Gold standards, but will not go through the certification process. This standard was changed from LEED Silver to LEED Gold in 2010. **In 2015, LEED Platinum will be the minimum standard for major capital projects.**

Presently, the Urbana campus has four LEED certified buildings. Two other buildings under construction will also seek LEED Gold certification. The new Electrical and Computer Engineering building is designed to reach LEED Platinum certification and is also striving for a net-zero energy design.

## By the Numbers

### Lighting Retrofits at the University of Illinois

Extensive lighting retrofits across campus are expected to save **\$1.2 million annually**. Facilities & Services now employs two retro-commissioning teams. To date, they have covered over **4 million square feet** of building space with an average energy reduction rate of **25% per building**.

Additional conservation efforts include the following: energy recovery units, steam pipe insulating, thermal energy storage, and an ESCO agreement at the Veterinary Medicine complex.

### *Infrastructure Improvements*

The Illinois Department of Transportation used over 1.7 million tons of recycled materials in highway construction in 2009. The FY-2011 figures will be much higher due to the largest road program in Illinois history. In addition recycled lumber was used by Department of Agriculture to manufacture Emerald Ash Borer (beetle) informational kiosks at IDOT rest areas.

The Illinois State Toll Highway Authority is pursuing various large-scale projects to make infrastructure construction more environmentally sensitive. In order to increase the use of non-toxic, recycled and reclaimed materials in infrastructure reconstruction and rehabilitation work, the Tollway is evaluating the use of the coarse aggregate from reclaimed asphalt pavement – black rock – into concrete pavement mixtures. Tollway Materials Engineering staff initiated research into the use of black rock into concrete in late 2010, and placed a test section on the Milwaukee Avenue ramp in October 2010. Subsequent research has been analyzing the black-rock concrete mixture properties for placement on mainline pavement. A trial production of black rock concrete, as part of a two-lift composite pavement, is being planned for 2012.

In the recycled material area, the Tollway is also researching the inclusion of > 5% by weight of recycled asphalt roof shingles (RAS) in future Hot Mix Asphalt (HMA) mixes to reduce virgin asphalt quantities. Materials Engineering staff began researching the use of recycled asphalt shingles in HMA mixes in 2007. Applications of the RAS mix design were installed at test sections along the shoulders of the Tollway's right-of-way in 2008 & 2009. The Tollway coordinated with the IEPA in 2009 and 2010 to allow for the processing of tear-off asphalt roof shingles within the State. Beginning in 2010, the Tollway incorporated the option of using RAS in all construction contracts that contain the use of HMA and forward. The Tollway additionally joined the USEPA's Waste Wise

Program to assist in quantifying GHG reductions achieved by utilizing RAS.

In order to reduce energy consumption with the production of materials for infrastructure reconstruction, The Illinois State Toll Highway Authority is researching the option to use warm mix asphalt in place of hot-mix asphalt to reduce energy consumption at the production plants. Tollway Materials Engineering staff began research on the use of warm-mix asphalt in 2008 and implemented test sections of the material to establish specifications for use. Research evaluating the use of WMA was completed in 2011, and the application of warm mix technology to all construction contracts is being considered for 2012.

The Tollway is also researching method to reduce roadway pollutant loading to adjacent waterways by constructing experimental bioswales to filter out roadway pollutants. The construction of 21 bioswales along an 11-mile section of the North Tri-State between Touhy Avenue and Lake Cook Road was completed as of October 15, 2010.

## **F. EDUCATION AND OUTREACH**

All reporting agencies are continuing to educate and engage employees in “green” office practices and challenges. Institutions like Illinois Correction Industries at Menard and the University of Illinois are expanding community-based recycling and composting programs. Academic professionals continue to collaborate with one another and reach out to teachers and students throughout the State. Various agencies have also engaged the community in restoration projects. A particular point of pride is the Fallen Soldier Tree Memorial at Illini State Park.

### ***Employee Education and Engagement***

The Illinois Council on Developmental Disabilities continues to increase staff education and awareness, and to solicit input from staff regarding the GGCC's goals and progress. At the Illinois Environmental Protection Agency, a “Green Living” tip sheet has been prepared for employees, with suggestions on how to save energy, conserve water, purchase green products, and cut waste at home and in the office.

The Illinois Commerce Commission circulates brochures and fact sheets on energy efficiency; reduce, reuse and recycle opportunities; CFL use and recycling; battery recycling; small electronics recycling; Green Fleets Program; e-Recycling Legislation and State Government Environmental Resources ranging from grants, fuels, and hazardous waste to water issues. The agency also utilizes an electronic newsletter, email from the Sustainability Committee, signs and flyers in public places, staff meetings, organized activities and events (Earth Day, Bike-to-Work Day, etc.), community events, surveys, and an intranet site to educate and engage the staff.

### **Looking Ahead**

The Office of the Lieutenant Governor plans to develop educational materials for employees on sustainability practices, develop and circulate a policy instructing employees to turn off computers when leaving the office, and mount signs reminding employees to turn off lights where applicable.

The Governor’s Office of Management and Budget (GOMB) informs employees of sustainability projects and announcements across the State by using email and a designated corkboard/dry erase board. The office recycles aluminum cans and has started a "sustainability fund" with the money collected from recycling. In addition, the

Office is in the process of developing sustainability materials that will educate employees on small things that can be done to reduce their impact on the environment and incorporating that into their annual training and new employee information. GOMB participated in the State of Illinois's annual "Curb Your Car/Bike to Work Week" with 17.5% of the workforce participating. GOMB has at least two employees that bike to work (weather permitting) year round.

As previously mentioned, the Illinois Department of Revenue participated in the Springfield-Sangamon County Regional Planning Commission's Curb Your Car Challenge in May, and sponsored a department-wide "10-ton challenge" between July and September of 2010. The Department's summer 2011 program, "REV Up Your Health," encouraged employees to exercise by walking or cycling to work.

Among FY-2012 initiatives, the DOR plans to issue an "Employee Take the Energy Challenge," where employees would commit to certain sustainable acts such as turning off monitors every night, printing only when necessary, turning lights off in conference rooms when not in use, etc. The Department also plans to develop a "Sustainability Policy" and "Everyday Sustainability Practices" training program for new and existing employees, ad signage to all conference rooms to remind employees to turn off lights when not in use, and continue to orchestrate educational and health-related sustainability events for employees.

Finally, the Department of Revenue plans to explore sustainability business trends and report on the feasibility of the following initiatives: 1) telecommuting, 2) an agency-wide (or facility-wide) 4-day workweek to save electricity, water, cleaning services, gas emissions, etc., 3) new trends discovered during the fiscal year at regularly scheduled Sustainability Committee meetings.

Among other examples of agency research are the following multi-year initiatives: the IEPA Chicago Climate Exchange project, Tollway research into various infrastructure construction methods and stormwater management, ISP fuel-efficiency research, the DHFS/CMS systematic imaging device analysis, and various CMS recycling initiatives.

### ***"Green" Communities***

As previously mentioned, Illinois Correctional Industries at Menard has long been engaged in ambitious expansion of services at ICI's community-based Recycling Center. This growing partnership serves as an outstanding example of how state and local governments can work cooperatively to expand needed services in a cost efficient manner that benefits the taxpayer.

At the Department of Agriculture—State Fair—a new, vegetated roof was completed a year ago. The "green" roof is the first one undertaken by Capital Development Board, and tours are regularly offered to visitors.

# Spotlight

In a joint venture, the Illinois Department of Transportation, the Illinois Department of Corrections, the Illinois Department of Natural Resources, Prairie Dog Volunteers, and Brimfield High School students planted **5000 prairie plugs** at Jubilee College State Park.

## ***Academic Engagement and Outreach***

Southern Illinois University Edwardsville sent 2 members of the faculty to “Train the Trainers” AASHE, and 3 students and the sustainability officer to the AASHE 2010 conference. (SIUE sent 3 students, 2 sustainability officers, and 2 faculty members to AASHE 2011.) The University also sent the campus architect, sustainability officer, and 4 engineering students to Green Build 2010, and 6 students to Green Build 2011. Finally, SIUE planned and executed Campus Earth Week 2011 activities and implemented a website: [www.siu.edu/sustainability](http://www.siu.edu/sustainability).

The Office of Sustainability at the University of Illinois at Chicago uses various listservs, mass mailings (which go out to the entire campus community), and targeted mailing lists as a way to disseminate information. A weekly column 'Shades of Green' is written in the UIC newspaper. The Office of Sustainability maintains a website, found at [sustainability.uic.edu](http://sustainability.uic.edu) that keeps the campus up to date. If an event is happening on campus, banners and posters are placed around campus as well.

The Office of Sustainability and the Department of Biological Sciences at UIC have partnered with the Jane Addams Hull-House Museum in the development of a community garden. The Office of Sustainability is also working to achieve certification under the Arbor Day Foundation’s Tree Campus USA program, which emphasizes effective management, student education, and community outreach.

At the University of Illinois Springfield, the Senate Sustainability Committee has hosted many "brown bag" sessions throughout the year to educate the campus on ongoing campus initiatives in recycling, utility conservation, and construction. The campus has also hosted outside speakers, who address conservation and environmental efforts. The campus has a website, <https://uisapp-s.uis.edu/surplus>, which is used to locate electronic items that can be reused at UIS. All incoming freshman receive an orientation

presentation by faculty and staff that specifically educates and informs students of "sustainable activities" that UIS supports.

The GGCC annual Sustainable Universities and Colleges Symposium is an opportunity for college and university administrators, professors, student leaders, and private-sector professionals to exchange ideas in the effort to enhance sustainability at Illinois institutions of higher learning. This year speakers, workshops, and panel discussions covered topics such as sustainable renovation and construction, energy efficiency, renewable energy, conservation, water and waste reduction, benchmarking, and environmental education and service learning. Presenters hailed from Eastern Illinois University, Southern Illinois University Carbondale, Southern Illinois University Edwardsville, the University of Illinois at Chicago, the University of Illinois at Urbana-Champaign, and Western Illinois University.



Local and Sustainable Lunch  
at the 2011 GGCC Sustainable Universities and Colleges Symposium

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***Caught Green-Handed . . . reaching out to the academic community***



Gary Miller—University of Illinois, Prairie Research Institute

For the past 3 years Gary Miller has Co-Chaired the Green Universities and Colleges Subcommittee for the GGCC and has represented the University of Illinois on that Council. He has also served as a technical resource for the Green Cleaning Schools Act for the State of Illinois.

As Co-Chair of GUCS one of his goals is to foster a partnership with all institutions of higher education, public and private, in Illinois and with related efforts in state government agencies. The GUCS has held well-attended, monthly webinars with guest speakers, on a wide variety of topics including energy efficiency, renewable energy, green purchasing, local food, alternative transportation, community health, and smart design.

In addition, the sub committee has two active workgroups. One has revised and established a new University Compact which has now been signed by over 30 institutions. The second workgroup deals with policy and legislative issues of common sustainability-related concerns to higher education.

For the past two years Gary has served on the organizing committee for the annual Sustainable Universities and Colleges Symposium, assisting with planning programs and reviewing proposed presentations. In the spring of 2011, he collaborated with Julie Elzanati, Co-Chair of GUCS, to undertake a survey and review the status of wind power curricula in Illinois. The results of this assessment were presented at the Advancing Wind Power in Illinois Conference 2011 held at the Illinois Institute of Technology in July.

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# Spotlight

“Old is the New Green”

The Illinois Historic Preservation Agency reports that the theme of the 2011 statewide historic preservation conference was “Old is the New Green”. Keynote speakers and featured sessions throughout the conference focused on the many aspects of sustainability. The opening reception included a director's showing of the documentary film *The Greenest Building*. The Preservation Services website (<http://www.state.il.us/hpa/ps/>) features PowerPoint presentations on the positive connection between historic preservation and sustainability. Mike Jackson, the Preservation Services Division Chief is an active leader on this topic serving the national preservation community.

## ***Lest We Forget***

“No immaculately maintained lawns here, just strong and solid oaks that protect the life that grows beneath their canopy, just as the soldiers did for their country.”

—Fallen Soldier Tree Memorial

The Fallen Soldier Tree Memorial at Illini State Park in Marseille spans two and a half acres and is dedicated to the men and women from Illinois who have died in Afghanistan or Iraq. The site is graced by more than 200 oak trees, planted by volunteers—one for each Illinois service member who was lost. This living memorial creates a peaceful, environmentally-friendly sanctuary, in which fallen US Armed Forces personnel can be honored. The project was spearheaded by Illinois Department of Transportation’s Sustainable Practices Manager, Steve Massey. In addition to planting trees, volunteers placed a large boulder with a bronze plaque, installed a flagpole with solar lighting, and poured a concrete parking area.

Governor Quinn expressed his gratitude to fallen Illinois soldiers at the Memorial on Veterans Day, November 11th, 2011.

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***Caught Green-Handed . . . honoring men and women of honor.***



Steve Massey, Sustainable Practices Manager—Illinois Department of Transportation

Mr. Massey coordinates interdepartmental activities in order to achieve sustainability goals. He advocates the conservation of resources, energy efficiency, waste reduction and recycling, pollution prevention, increased reliance on renewable resources, and other measures consistent with sustainable living within state government. Among his most notable accomplishments is the creation of the Illinois Fallen Soldiers Tree Memorial, a living memorial to US service members who gave their lives in service to America.

Steve Massey began his career with the Illinois Department of Transportation in 2003 and currently serves as IDOT's first Sustainable Practices Manager. In this role he makes policy recommendations to the Secretary of Transportation and senior-level staff. He serves on the Green Government Coordinating Council and is co-chair of the transportation subcommittee.

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Fallen Soldier Tree Memorial at Illini State Park in Marseille

## CONCLUSION

State of Illinois Green Governments initiatives this year reflect a commitment to sustainability on at least three levels. State agencies, boards and commissions, and educational institutions have maintained and continued to develop green office policies and practices related to every-day operations. These include increasing electronic distribution, reducing imaging devices, purchasing environmentally friendly equipment and supplies, taking advantage of local and centralized surplus inventory, and increasing recycling programs.

On another scale, State units are collaborating with one another on sweeping energy efficiency retrofits and renovations. With the support of federal stimulus funds, State capital, and Central Management Services, agencies, boards and commissions, and educational institutions have updated lighting systems, installed white roofs and energy-efficient windows, updated HVAC systems and controls, etc. These projects will significantly reduce negative environmental impacts and realize both short-term and long-term savings for taxpayers.

A third category of green initiatives is large-scale projects unique to particular sectors of government. These projects have evolved out of the unique challenges and opportunities inherent in each overarching task of State government. The Department of Corrections, for example, has expanded local recycling and local food programs to the benefit of correctional institutions and local populations, creating more integrated and sustainable communities. The Illinois State Police, Department of Transportation, and Illinois State Toll Highway Authority have initiated and collaborated on a wide variety of projects to improve infrastructure while reducing negative environmental impacts. They have also employed infrastructure improvements as vehicles for research, education, and community outreach.

In all of these initiatives it is apparent that the culture of Illinois government is changing and that green initiatives are saving taxpayers millions of dollars. This change is attributable to various factors including State executive leadership, unit leadership, and the commitment of employees at large. The State has much to be proud of and much to look forward to as it has set its ship on the right course for next year and for years to come.