



State of Efficiency



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ef·fi·ci·en·cy [i fish'nsee]

The productive use of **resources**;
the degree to which something is
done well or without wasted energy



DCS Divisions: Pursuit of a Common Goal

The Department of Central Services (DCS) is developing an energy efficiency & conservation plan to address specific sustainability goals in each division of the agency. A primary purpose of the plan is to serve as a model of compliance with the letter and spirit of environmental and resource conservation laws and regulations.

Below are the five goals of the DCS plan. The division with major responsibility for each goal is listed beside it.

- 1) Implement Sustainable Building Practices: [Construction & Properties \(CAP\)](#)
- 2) Reduce Transportation-Related Pollution: [Fleet Management](#)
- 3) Maximize Recycling; Minimize Waste: [State Surplus](#)

- 4) Minimize Facility-Related Energy & Water Use: [Facilities Management \(OFM\)](#)
- 5) Maximize Use of Environmentally Preferred Products & Reduce Use of Toxic Products & Chemicals: [Central Purchasing](#)

Other divisions of DCS will contribute to the plan by implementing policy changes and

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“We, the public servants of the state of Oklahoma, are hereby committed to the conservation of resources and the protection of future generations through the promotion and implementation of sustainable business practices.”



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OU's Lean & Green Training Program

The University of Oklahoma Lean Institute will be officially launching its new Lean and Green training program for Oklahoma state agencies in Fall 2010. Lean and Green teaches organizations how to identify and eliminate environmental waste from their own operations through three intensive days of training spread over 10-12 weeks.

Between class sessions, participants work on a real world improvement project at their agency, under the guidance of the instructor. By the end of the training, participants not only have enhanced green job skills and a certificate from OU, but they have also made measurable improve-

ments in their business. This program is funded as part of the Oklahoma Department of Commerce's "Oklahoma Green Project," making it free to participating agencies, and is applicable to agencies from all fields. There will be at least one training location set up in the State Capitol Complex for interested agencies.

The Lean Institute conducted a test of the Lean and Green curriculum in partnership with the City of Norman in Spring 2010. Six students drawn from the operating staff of the City's water treatment and wastewater plants produced projects outlining cost effective ways that they could eliminate

roughly **\$105,000 annually in energy waste, chemical usage, and excess material transportation** from their operations with very reasonable ROIs. Their projects are now being implemented at their facilities.

This training is a great tool to not only make Oklahoma businesses greener, but to make them stronger and more competitive as well. The Lean Institute is currently recruiting businesses from across the state who would like to take part in this program over the next three years.

To learn more or sign up to participate in this program, visit www.lean.ou.edu or contact Dr. Marc Jensen at 405-325-9135 or marc.jensen@ou.edu. 



DOES YOUR AGENCY HAVE AN ENERGY EFFICIENCY & CONSERVATION PLAN AS REQUIRED BY 27A O.S. SUPP. 2009, §3-4-106?

This *free* training is an opportunity to gain information to assist your agency's compliance with the spirit of the law. The first session is composed of three (3) days of class:

SEPTEMBER 20th, OCTOBER 18th, & NOVEMBER 15th

Only 25 seats are available and registration is limited to a maximum of two participants per agency, so waste no time...

REGISTER TODAY!

Designing a Sustainable Fleet Strategy

By [Staci Woodberry](#) and [Andrea Ivory](#),
DCS Fleet Management Analysts

Fleet management's role in state sustainability initiatives is often critical to achieving program goals in cutting energy consumption, reducing greenhouse gas emissions, and supporting good "planetary citizenship." Do you ever wonder what impact fleet vehicles have on our state's environment? Assuming each vehicle drives at the speed limit and logs 18,000 miles annually:

- ⇒ Each compact car emits 5.31 tons or 10,620 pounds of carbon dioxide (CO₂) annually.
- ⇒ Each mid-sized car emits 9.90

tons or 19,800 pounds of carbon dioxide annually.
⇒ Each SUV or pickup emits 14.43 tons or 28,860 pounds of carbon dioxide annually.

The total effect on the environment, based on a 9,000 state-owned or leased vehicle fleet: **87,066 tons or 174,132,000 pounds of carbon dioxide emitted annually.**

Even during budget constrained, bottom-line-wary times, the State continues to pursue green fleet measures, especially those that can have an immediate impact on agencies' budgets.

Building an eco-responsible fleet requires research, good planning, and effective implementation. Fleet managers are, through necessity, evolving into project management professionals, lean process 'black-belts' and astute business analysts.



Fleet Manager in Lean Process training.

Building Right Mix of Green Vehicles & Technologies



The State continues to be fuel-neutral in its support of green vehicles and technologies. Fueled by federal regulation (Corporate Average Fuel Estimate – CAFE) the State's strategic procurement processes now include the integration of alternative fuel vehicle categories across the statewide automobile contract categories (SW035).

Corporate Average Fuel Estimate Standards

Model Year	Passenger Car MPG	Passenger Car CO ₂	Light Truck MPG	Light Truck CO ₂
2011	31.2	285	25.0	355
2012	32.8	271	26.4	337
2013	34.0	261	27.8	320
2014	34.8	255	28.2	315
2015	35.7	249	28.6	310

Additional statewide contracts have been awarded for after-market alternative fuel conversion technologies; both compressed natural gas (CNG) and liquefied petroleum gas (LPG) to support building larger, more eco-compliant fleets within state agencies (SW809). This particular contract has become the bellwether for other states inter-

ested in driving the results of small volume manufacturers and larger auto giants like GM and Chrysler back into the alternative fuel vehicle market. General Motors will begin selling OEM CNG vans in 2011. Chrysler (Fiat) will begin importing OEM CNG vehicles as early as 2012. The Oklahoma Department of Central Services continues to award for existing conversion technology kits - as well as awarding developmental projects for high-use passenger vehicles (2010 Chevrolet Impala) and conversely low-density, high-mileage, workhorse vehicles (2010 GM Savana and Express Vans), which are commonly used by agencies like the Department of Corrections, Department of Veterans Affairs, and state universities 



[Click Here to read the article in its' entirety from the Fleet Management Website.](#)

DCS Divisions...(continued)

improving processes. For example, a division might replace petroleum vehicles with electric powered or CNG vehicles to contribute to the agency goal of reduced vehicle pollution. Divisions can also reduce travel costs and subsequent pollution by encouraging carpooling, video-conferencing and teleconferencing.

State Leasing plans to encourage energy savings and recycling in leased properties by incentivizing lessees for their participation. With each expansion

of the DCS recycled materials program, State Surplus continues to minimize the volume of waste entering landfills.

Identifying unnecessary waste and eliminating inefficient routines are crucial to achieving any paper and waste reduction objectives. DCS has already begun the 'Employee Self-Service' program as a way for employees to view/change their employee records when needed, instead of distributing printed copies regularly. Internal procedures have been altered in OFM and CAP

requiring documents such as bids, plans, and specifications to be in electronic format as opposed to paper copies. Another no-cost technique to reduce paper consumption is to ensure all printers and copiers print on both sides of the paper (duplex printing) by default.

DCS expects to finalize and publish the complete plan by September 30th.

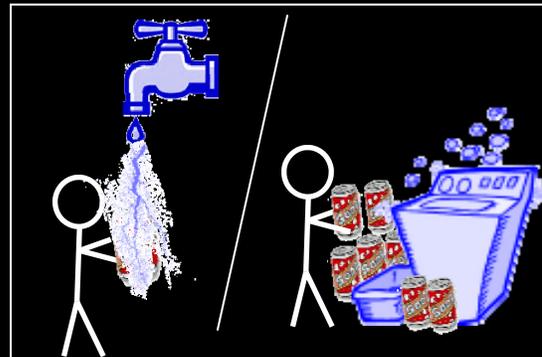
For more information regarding the DCS Sustainability plan or for assistance in starting a plan at your agency, please contact Liz Haigh by

[email](#) or at (405) 521-3315. 

1.) Empty.



2.) Rinse.



3.) Recycle.



4.) Repeat.

[CLICK HERE](#) to see DCS Recycling Guidelines.



USGBC Member Benefits for State Employees

The U.S. Green Building Council (USGBC) is a non-profit organization that promotes sustainability in the design, construction, and operation of buildings. USGBC is best known for its development of the *Leadership in Energy and Environmental Design* (LEED) building rating and certification system.



The State of Oklahoma, through the Department of Central Services, recently became

a corporate member of USGBC, which entitles any full-time State employee to create a site user account and connect to the membership.

Some of the benefits of a USGBC membership are:

- ⇒ Access to the over 18,000 USGBC members and their technical expertise and resources.
- ⇒ Educational opportunities including workshops and web-based seminars on different elements of the green building industry.

⇒ Members-only savings on LEED study guides, courses, and exams.

⇒ Access to the USGBC Member Forum, a free, annual event offering networking opportunities and updates on green building initiatives.

If your agency is responsible for the construction, renovation, or maintenance of the space it occupies and would like more information regarding creating a user account please contact [Liz Haigh](#) at (405)521-3315. 

Energy Savings & Renewable Energy Update



Energy Generated (Numbers updated 8/30)		Energy Savings (FY08 through FY10)	
Total Wind	19,130 kWh	Total Energy (kBtu)	-35,608,404 kBtu
CO ² Equivalent	32,904 lbs	Electricity (kWh)	-8,313,376 kWh
Total Solar	42,362 kWh	Natural Gas (Dth)	-7,120 Dth
CO ² Equivalent	72,862 lbs	Water (Gallons)	-17,524,000 Gallons

For a complete listing of energy savings & renewable energy generation totals, please visit: [OFM Energy Tracking Page.](#)

Central Purchasing: Green Solicitations

By [Steve Hagar](#)
 State Purchasing Deputy Director

A basic premise of State Purchasing is to convey to our state suppliers, by means of our solicitations, what we deem important when it comes time to evaluate supplier responses. We will typically convey to our suppliers by listing within the solicitation what we will evaluate in order of importance. We also assure that our evaluation tool is tightly aligned with what will be conveyed within the solicitation. The evaluation tool will be used by the evaluation committee to evaluate supplier responses and will include specific weights and point values assigned to each of the components referenced within the solicitation.

While the components of evaluations vary considerably from project to project, most state acquisitions will have some impact to our environment and should therefore provide an opportunity to challenge our supplier base to consider environmental ramifications. Due to the typical size of state government's acquisitions, we are uniquely positioned to help drive the marketplace. It was a request of proposal for state vehicles that



ultimately changed the market for vehicles to move seat belts from an

optional feature to a standard requirement.

As your agency identifies the need to make an acquisition, consider including evaluation components that will help drive sustainable green practices and products. Some considerations will be more apparent and easier to identify such as requesting "products manufactured with recycled materials" (contains a minimum of 10% post-consumer materials) or products made with "recyclable materials" (materials or products which are capable of being recycled), while others may not seem to lend themselves to environmental considerations.

Take for example the need to purchase a riding lawn mower for a state facility. You may believe there are few choices that offer any discernable environmental benefits. Turns out, one of your suppliers now has a compressed natural gas



(CNG) riding mower for your consideration. A slight premium could easily be justified when considering the "life cycle cost" (beyond the purchase price, additional considerations given for cost of operation, waste disposal, durability and reusability, also known as total cost of ownership).

For those acquisitions for which there seem to be no obvious environmental considerations, offer to award "bonus points" to suppliers who offer creative ways to reduce impact to the environment. You would need to convey within the solicitation something to the effect



Packaging Over-kill.

of "responses to the state that address environmental considerations may be awarded up to 5 additional bonus points at the discretion of the state". In the case where seat belts were offered, the state solicitation did not request seat belts but rather offered points for suppliers offering safety improvements to their vehicles.

Given the opportunity and incentive our state suppliers may surprise you in the creative ways in which they try to differentiate themselves from the competition, why not give it a try? 

For more information about Green Solicitations and how to 'Re-Invent Your Purchasing' contact Steve Hagar by phone (405.522.3369) or [email](#).

Re-Invent Your Print!

State Surplus: DCS Recycling Update



DCS recently began the [“Re-Invent Your Print!” Recycling Program](#) in DCS-managed facilities. In July, State Surplus began weighing and reporting recyclables collected. The numbers below are through July 2010.

Paper	8,077 lbs.
Cardboard	1,406 lbs.
Aluminum & Plastic	118 lbs.



Get to Know Your Facilities Professionals!

The Facts

Name:

Ron Dennis

Occupation:

Construction Maintenance
Administrator III

Years with DCS:

3

Specialized Skills:

Leadership, Task Management,
Marathon Runner and
Karaoke King Extraordinaire

Hometown:

Pryor, OK

Ron Dennis came to DCS in September of 2007 as a Construction Maintenance Technician I after 20 years in the U.S. Army. Since then, Ron has risen through the ranks and now manages 19 employees as the Central Maintenance Manager for Facilities Services. Ron gained much of his facilities knowledge in the Army as a Construction Supervisor. He spent time in Kansas, Washington, Panama, and Germany before coming back to Oklahoma, where his last assignment was training troops for tours in Iraq and Afghanistan. Ron has been married for 22 years to his wife Toni. He has four daughters, and is Grandpa to an 18-month old granddaughter. Ron says the best part of his job is his staff and the flexibility and support from management. 



[Ron Dennis](#)

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Next Issue:

State Capitol Building Receives Energy Star Label

What a Bunch of Bulb-Crushery!

Sustainable Holiday Party

