

State of Efficiency

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

March 1, 2012. Volume 2, Issue 3.

Published by: The Office of State Finance Department of Central Services

“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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Governor Fallin Publishes Energy Plan

The office of the Governor in conjunction with the Secretary of Energy recently published guidelines for future policies on energy, and environmental issues. This publication gives an overlook at present and future opportunities for the state of Oklahoma with regard to energy usage and production.

This is a comprehensive report detailing the challenges and opportunities across the energy sector. As noted in this publication Oklahoma has an extensive portfolio of energy options that include wind, solar, and fossil fuel reserves that can impact the national dialogue on efficient usage of our energy resources for the future, cutting our dependence on the importation of energy from unstable regions of the world.

These rich natural resources cannot be squandered in inefficient usage as has happened in the past. So this plan covers industrial electrical production efficiencies, commercial and residential building efficiency programs and incentives and other aspects of energy usage and production. These guidelines can be used to implement statutory rulemaking and public policy implementations.

As noted in our next article, “Oklahoma ranked by ACEEE”, this comprehensive plan can ensure that future rankings are much higher due to increased legislative efforts in the energy sector. Developing a comprehensive energy plan can aid Oklahoma achieve national recognition for innovation and efficiency and this plan lays the ground work for future strides in this area.

Please read the report in its entirety if you have further interest in this subject at <http://www.ok.gov/governor/documents/Governor%20Fallin's%20Energy%20Plan%20-%20Jan%202012.pdf>

Energy Star Update

Current Average Rating: 85 (out of 100)

Facilities Included: 12

Energy Star Certified Buildings: 6 ()

Format: Rating (+/- since June 1, 2011)

For more information about the Energy Star, Energy Star rating system, or other aspects of Energy Star certification

program, please visit the [EPA's Energy Star Website](#).

Kerr-Edmondson Building

Current Rating: 92 (+1)

Attorney General Building

Current Rating: 79 (+1)

Jim Thorpe Building

Current Rating: 84 (+1)

State Capitol Building

Current Rating: 90 (E)

DHS-CAP Building

Current Rating: 96 (E)

Department of Libraries

Current Rating: 92 (+1)

Agriculture Building

Current Rating: 91 (E)

Department of Transportation
Building

Current Rating: 69 (+1)

Banking Building

Current Rating: 60 (+6)

Denver Davison Courts Building

Current Rating: 88 (+11)

Connors and Hodge Buildings

Current Rating: 78 (+5)

Sequoyah and Will Rogers Buildings

Current Rating: 88 (+1)

Oklahoma Ranked 47th by ACEEE

The American Council for an Energy Efficient Economy (ACEEE) released their results for the annual energy efficiency rankings across the country. Oklahoma currently ranks 47th. This ranking is the result of several factors that have no relation to the amount of energy that is used in the state. The full report can be read at <http://aceee.org/research-report/e115>. The criteria for this ranking are as follows: benefit funds, policy and programs, transportation, building energy efficiency codes, combined heat and power incentives (applies to large electric generation plants), state government initiatives and finally appliance efficiency standards.

The good news is that we are on the move in these areas and should improve our position in the years ahead. According to the ACEEE Oklahoma has expanded its energy efficiency portfolio in recent years which should help us to attain more recognition for our efforts on a state wide level. In the meantime what can you do to improve your personal efficiency scores?

Well, knowledge is the key and there may be some things you are unaware of that can help save the state and taxpayers some money. The electronic Tenant Manual, found here [http://www.ok.gov/DCS/documents/OFM_TENANT_MANUAL_Access\(v2\).pd](http://www.ok.gov/DCS/documents/OFM_TENANT_MANUAL_Access(v2).pd) , is a great source for understanding your building and knowing the do's and don'ts that will help to improve your personal energy efficiency. Once you have looked at the energy saving tips in the tenant manual take them home.

Many of us, especially in multiple member family, in other words teenagers, can tend to have quite a few rooms all powered up with lights, I-pads, radios and many other energy uses.

New Solar Panels Installed

DCS recently completed a project that added new generating capacity to their alternative energy portfolio. When the Banking Commission decided to add covered parking to their building, it was determined that the new covered parking canopies were an ideal candidate for solar electrical generation. The new photovoltaic panels are capable of generating 41 KW hours of energy under ideal conditions.

The addition of solar electric generation is an investment in the future energy needs of Oklahoma. Unlike coal, natural gas, and oil, solar energy is not such a limited resource. In fact, the sun should be around for several billion more years, while some predict fossil fuels will be depleted in about 100 years, preceded by periods of soaring prices and shortages. Remember that oil topped out near \$150 a barrel in 2008 and some experts are forecasting a return to that price this year.

We all feel the pain when we pay at the pump due to these high oil prices. Fossil fuels become marginally more expensive and the cost of solar becomes increasingly competitive. With continued research improvements in the efficiency of solar generation make it increasingly competitive in an energy portfolio.

We made a commitment to sustainability several years ago because it makes economic sense, and it is the right thing to do. Part of sustainability is looking to future needs and consequences of today's actions. With the installation of photovoltaic panels at this facility, we are aiding the renewable energy industry and leading the way to a brighter energy future for our state.

Energy Savings & Renewable Energy Update

Energy Generated

(Numbers updated 2/2/2012)

Total Wind = 62,595 kilowatt-hours

Carbon Dioxide Equivalent = 107,663 lbs.

Total Solar = 172,457 kilowatt-hours

Carbon Dioxide Equivalent = 296,626 lbs

Energy Savings Impact

(July Fiscal Year 2008 through December Fiscal Year 2012)

Total Energy reduction of 157,523,054 kilo British thermal units.

Electricity (kWh) reduction of 34,964,484 kilo Watt-hours.

Natural Gas reduction of 38,270 Dekatherms.

Water reduction of 50,016,000 Gallons.

Chilled Water usage reduction of 123,124 TonHr

Steam increased usage of 1,412 Mlbs

For a complete listing of energy savings please visit:

[OFM Energy Management Page.](#)

For information on renewable energy projects in the

Capitol Complex, visit: [Renewable Energy Projects.](#)

Get to Know Your Facilities Professionals!

The Facts

Name:

Howard Kelley

Occupation:

Construction/Maintenance Technician II

Years with DCS:

11

Specialized Skills:

Plumbing Mechanical

Howard Kelley has worked for DCS for eleven years. Prior to his employment with DCS, Howard was an Aviation Aircraft Mechanic for the US Navy for 26 years, this involved working on engine, hydraulic, HVAC, and power generating equipment.

Howard performs maintenance on the emergency generators throughout the Capitol Complex. In addition to the emergency generators he also works on lighting, electrical and appearance issues of state buildings throughout the capitol complex.

Howard is happily married to Lisa and they have two daughters, one son, and three grandchildren. In his spare time Howard is an avid fisherman and camper and enjoys the open road on his Harley motorcycle.

To contact Howard click [here](#).

Last year, DCS began the

[“Re-Invent Your Print!” Recycling Program](#) in DCS-managed facilities. In July 2010, State Surplus began weighing and reporting recyclables collected. The numbers in the table are through October, 2011.

Recycling Update

Paper 561,223LBS

Cardboard 88,482 LBS

Contact:

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