

Hello All!

Due to summer travel, July's e-newsletter for the Arizona Solar Energy Society is a lite version of our regular e-newsletter.

Table of Contents:

1. AZ in top 10 states for increased CO2.
2. AZ Legislative session ends – final votes
3. Local Events
4. Quick DOD energy consumption facts

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1. AZ's CO2 on the rise

"Arizona Public Interest Research Group released a report this month that says Arizona ranks among the top 10 states for largest increase in carbon dioxide emissions from 1960 to 2001...[rising] to 87.6 million tons from 15.5 million tons...a five-fold increase...Later this month, a 34-member climate-change advisory group appointed by Governor Napolitano is expected to issue a report on its own findings." (June 23rd, 2006. Arizona Capitol Times, p. 11)

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2. AZ Legislative session round up.

Some good things made it; many didn't. Many thanks to all who participated in democracy, and contacted their lawmakers. Your work has paid off.

Below is what happened to bills we followed this session that we wanted passed:

NEW ARIZONA REALITIES!!!

HB 2429 Solar Energy Tax Incentives
HB 2430 Energy Cost Saving Measures; Requirements
HB 2591 Compressed natural gas; particulate program
(descriptions below)

AWESOME THINGS THAT COULD HAVE HAPPENED FOR ARIZONA, BUT DIDN'T:

HB 2501 funds for energy efficiency for schools.
HB 2374 cities and towns; energy code
HB 2435 water protection fund; funding
HB 2711 tax incentives; biodiesel; ethanol E85
HB 2843 tax credit; energy efficient products
SB 1323 S/E tax credit; cogeneration

DETAILS ON WHAT PASSED:

HB 2429 Solar Energy Tax Incentives
Eliminates state and county sales tax for purchase and installation of solar energy equipment
Solar energy equipment does not add value to property when calculating property tax
10% business tax credit with \$25,000 cap per building and \$50,000 cap per business

HB 2430 increases the energy cost savings performance contracting maximum terms for state buildings and school facilities to 25 years. The current eight year payback requirement for solar energy and energy conservation design, equipment and materials in state buildings and schools is deleted. Additionally, current provisions of law relating to energy and cost avoidance analysis, reporting and shared savings are removed.

Provisions

- Increases the guaranteed energy cost savings performance contracting terms for school facilities to 25 years from 10 years.
- Increases the life cycle cost methods and performance contracting terms for state buildings to 25 years from 15 years.
- Deletes the current eight year payback requirement for solar energy and energy conservation design, equipment and materials in state buildings and schools.
- Removes the current energy and cost avoidance analysis, reporting and shared savings provisions for state buildings and schools.

HB 2591 passed

- Specifies that the FY05-06 appropriation from the Air Quality Fund is to award grants to school districts for purchasing new CNG school buses or to purchase new school buses with diesel particulate filters or to retrofit used school buses with diesel particulate filters.

Below is how your legislators voted on the bills we followed

Votes in this order,

HB 2429 solar energy tax incentives- passed;

HB 2430 Energy Cost Saving Measures; Requirements -passed;

HB 2591 compressed natural gas; particulate program - passed;

HB 2711 (Senate finance committee members only, did not pass)

(Y=yes, N=No, NV=Not Voting)

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3. Local Events

Phoenix Metro Area:
Environment and Energy Lecture Series!

Put on by the Arizona Solar Energy Association and the Arizona Solar Center under the auspices of the City of Scottsdale Green Building Program, this month's topic is:

THE OASIS MYTH - PART 2 - Desert Design Fundamentals continued.
Materials, Systems, Needs and Comfort.

The Sonoran Desert is the most complex of the world's deserts with the most variety of plant and animal life. Learn the basics of Sonoran Desert Design Strategies and Practices.

Speakers: TBA

Thursday Evening July 20, 7 to 9 p.m. Free. City of Scottsdale Urban Design Studio located at the northeast corner of Indian School Road and 75th St.

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For your convenience, I have provided the rest of the season's lecture schedule below (courtesy of Dan Aiello):

- * Aug. - THE OASIS MYTH - PART 3 - Desert Design Fundamentals continued - Equipment Strategies for the Desert - Cooling, Heating, Power (PV), Water Heating, Cooking, etc..
Speakers to be announced.
- * Sept. - Costs, Incentives and Rewards - Environmental, Energy, Economic, and Educational.
Speaker to be Announced -
- * Oct. - Putting Together a Solar and Sustainable Future - Part 1 - The Oasis Realized
Issues and Conditions Reinterpreted in a new paradigm.
- * Nov. - Putting Together a Solar and Sustainable Future - part 2 - Oasis Visions
Various interpretations toward the common goal.

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4. DOD & energy consumption.

Ok, this topic has nothing to do with energy or the environment in Arizona, but I thought it was interesting. I'm not making a judgment on the Department of Defense, but I think a lot of this might be new information for a lot of folks, and many may find it interesting.

"Between wars, one would think the military's main purpose would be to "guard the peace." Not so. During times of peace, Tom Cutler writes: "The military's primary objective [emphasis added] is to ensure adequate oil supplies for the national defense...." Cutler should know: he once headed NATO's Petroleum Planning Committee and he is the author of The Military Demand for Oil (Petroleum Economist, London, England)...

The US Defense Fuel Supply Center is the world's biggest customer for refined crude oil." ("How

Fuel-efficient Is the Pentagon? Military's Oil Addiction," September 10, 2003 Gar Smith / Earth Island Journal (Winter 1990-1) (<http://www.envirosagainstar.org/know/read.php?itemid=593>)

82% of all Energy used by U.S. Gov. was used by DOD in 2004. 79% of DOD's energy use came from petroleum in 2004. (US Energy Information Administration 2004. <http://www.eia.doe.gov/emeu/aer/pdf/pages/sec1.pdf>)

Below are "fun facts" about US war machines. I am not making a judgment on them, but simply find the numbers fascinating...enjoy!

"With its afterburner kicked in, the F-15 fighter torches fuel at the astounding rate of four gallons per second — 14,400 gallons per hour. (The afterburners can triple a jet's speed, and increase fuel consumption twenty times.)

At its top speed of 25 knots, the USS Independence (a 1070-foot-long aircraft carrier with 4.1 acres of flight deck and a crew of 2300) consumes 150,000 gallons of fuel a day. Burning 134 barrels per hour, the Navy's non-nuclear aircraft carriers are the biggest gas-hogs in the Pentagon's arsenal. Steaming to the Persian Gulf in 14 days, the Independence would consume more than two million gallons of fuel.

A B-52 bomber gulps down 86 barrels per hour. F-4 Phantom fighter/bombers devour 40 barrels per hour. An F-16 jet on a training mission ignites more fuel in a single hour than the average car owner consumes in two years.

Under standard conditions the Army's M-1 Abrams tank gets eight gallons per mile. In the heat of battle, however, the M-1 Abrams tank can eat up seven barrels — 252 gallons per hour! In actual battlefield simulations, however, these tanks have proven to have a built-in energy-conservation feature — they break down, on average, every 152 miles.

In a modern military force, 2/3 of the weight of supplies would be for petroleum alone." (<http://www.envirosagainstar.org/know/read.php?itemid=593>)

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That's all for now. Continue to have a great summer!

Ben Marcus
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