

Hello All!

This is the June edition of the Arizona Solar Energy Association's monthly e-newsletter.

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I want to point out something here. The news below is bad, but I don't want to stress the negative. I want to stress the positive, and the positive is that there is much that can be done and that is being done to make our world a better place. That positivity is detailed in parts 2, 3, and 4 of this newsletter: from the ASEA lecture on Sustainable Desert Living, to ASES' national conference on climate recovery, to well written legislation making its way through the Arizona congress, there is so much going on right now, and that's just the tip of the (melting) iceberg!

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## **1. NEWS**

The UN released a 187 page Environment Programme Report that speaks to climate change and deserts. Although the report isn't available online yet, below is an article from The Guardian: 6/5/2006, by John Vidal. Reference here:

<http://www.guardian.co.uk/climatechange/story/0,,1790471,00.html>

***Climate change threatens conditions for 500 million. But report points to huge solar energy potential.***

The 500 million people who live in the world's desert regions can expect to find life increasingly unbearable as already high temperatures soar and the available water is used up or turns salty, according to the United Nations.

Desert cities in the US and Middle East, such as Phoenix and Riyadh, may be living on borrowed time as water tables drop and supplies become undrinkable, says a report coinciding with today's world environment day.

Twentieth-century modernist dreams of greening deserts by diverting rivers and mining underground water are wholly unrealistic, it warns.

But the report also proposes that deserts become the powerhouses of the next century, capturing the world's solar energy and potentially exporting electricity across continents. For instance, a 250,000-square mile area [500 mi x 500 mi] of the Sahara could, with today's technology, generate enough electricity for the whole world [the total area of the Sahara is 9,000,000 sq. mi.].

The problem now facing many communities on the fringes of deserts, says the UN environment programme report, is not the physical growth of deserts but that rising water tables beneath irrigated soils are leading to more salinisation - a phenomenon already taking place across large tracts of China, India, Pakistan and Australia. The Tarm river basin in China, it says, has lost more than 5,000 square miles of farmland to salinisation in a period of 30 years.

The report suggests that Middle Eastern countries such as Saudi Arabia have used water from the desert very unwisely. Rather than growing staple crops such as wheat or tomatoes, it suggests that precious water should be used only for high value crops such as dates and fish farming.

The mining "fossil" water, laid down many millions of years ago, was once believed to have the potential to green deserts, but is now not thought to be a solution - except in Libya, where opinion is divided as to whether supplies may last 100 or 500 years.

But the greatest threat to people and wildlife living anywhere near deserts is climate change, which is already having a greater impact on desert regions than elsewhere. The Dashti Kbir desert in Iran has seen a 16% drop in rainfall in the past 25 years, the Kalahari a 12% decline and Chile's Atacama desert an 8% drop.

Most deserts, says the report, will see temperatures rise by 5-7C by the end of the century and rainfall drop 10-20%. This will greatly increase evaporation and dust storms, and will move deserts closer to communities living on their edges.

The problems of more heat and lower rainfall are being compounded by the melting of glaciers in mountainous regions. These waters sustain life in deserts but would be perilously close to drying up if global warming continued as expected.

The glaciers in the mountains of south Asia are expected to decline by 40% to 80% in the next century with profound effects on large populations in Bangladesh, Pakistan, India and China.

Much of the water used for farming the south-west US, central Asia and around the Andes is drawn from rivers that originate in snow-covered mountains, says the report.

Development in the next 100 years is largely contingent on what happens to the climate. However, the report envisages that deserts will become more popular tourist destinations and that some of the plants that grow there could be "crops of the future".

"Deserts are threatened as never before by climate change, overexploitation of water and salinisation," said Professor Andrew Warren of University College London, one of the report's authors.

"We risk losing not only astounding landscapes and ancient cultures but also wild species that may hold keys to our survival."

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## **2. Local ASEA events:**

The above article mentions the negative. But what can we do about it? Where is the positive? Right here, at ASEA's very own:

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 I - Desert Design Fundamentals

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.

Speaker: Daniel Peter Aiello - Environmental Architect - janus II environmental architects and planners

Thursday Evening June 15, 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):

\* July - THE OASIS MYTH - PART 2 - Desert Design Fundamentals continued.

Materials, Systems, Needs and Comfort.

Speakers to be announced.

\* 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.

Other local events: Even though I have not yet seen it, the word on the street is that An Inconvenient Truth is a good film, and should be seen.

Find theatres and show times here: <http://www.moviefone.com...or>

after Saturday, find them here: [www.climatecrisis.net](http://www.climatecrisis.net)

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### **3. National Events: <http://www.solar2006.org>**

SOLAR 2006 – Renewable Energy: Key to Climate Recovery ASES' (our parent organization) annual event is coming up, July 7-13 in Denver, CO. The National Solar Energy Conference is attended by leading researchers, scientists, engineers, architects, designers, policymakers, contractors, installers, government leaders, strategic thinkers, teachers, utility representatives and other renewable energy decision-makers from around the United States and the world. We are expecting 1500 conference attendees, and hundreds of visitors to the Exhibit Hall.

\*Plenary Sessions - by the leading speakers in the field - presenting the latest information, initiatives and Renewable Energy solutions to Global Climate Change

\*Forums - organized by experts, advocates and decision makers from around the US and the World. Forums feature panel discussions, debates, tutorials, and updates on a broad spectrum of topics.

\*Technical Sessions - oral and poster presentations on the latest research, successful projects and projects that taught valuable lessons, marketing studies from different RE sectors, state and local government initiatives, successful advocacy efforts, and the state-of-the-art in manufacturing, research and development, resource assessment and building measurement and design.

\*Workshops - hands-on learning opportunities taught by people who successfully use the techniques taught every day.

\*Tours - experience all that Colorado has to offer first-hand, and see some interesting RE sites as well.

\*Special Events - come to the Opening Reception, Banquet or the social event on Wednesday evening and network with your colleagues while enjoying good food and entertainment!

\*Exhibit Hall - meet and talk to manufacturers, installers, dealers, consultants - people in the Renewable Energy business.

All the details here: <http://www.solar2006.org/>

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## 4. AZ POLITICS

The legislative session is dragging on. It should have ended about a month ago, but they're still trying to hammer out a budget. Once they do, they will then do final votes on some of the bills we've been following this session that are still alive, but haven't yet passed. Right now we have one in the Senate and one in the House.

HB2429 solar energy tax incentives: still trying to make it's way through congress, it establishes commercial solar tax credits that allow a 10% credit for the installation of solar energy devices for commercial or industrial purposes in a trade or business located in Arizona, which is limited at \$25,000 with respect to the same building annually and \$50,000 annually per company. There is an annual cap of \$1.5 million on the commercial tax credit. The bill also changes the law so the value of solar systems will not be added to property tax valuation. Please contact your senator and tell them to support HB2429!

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Below is from the Sierra Club:

Please also ask your House members to support SB1323 S/E: tax credit; cogeneration (Bee, Aguirre, Bennett, et al). It provides a new individual and corporate income tax credit for 2008 and 2009 for a taxpayer who produces and sells electricity from combined heat and power. The credit is equal to one and a half cents multiplied by the total kilowatt hours of electricity or one and one tenths cents multiplied by the total horsepower hours of power. It includes an overall cap of \$2 million dollars and a limit of \$500,000 on the maximum tax incentive for any single installation. (This will be amended on the floor to reduce this to \$150,000.) The tax credit for a 1 megawatt (MW) project would amount to about \$100,000 and it is likely that most projects in Arizona would be less than 1 MW and would include facilities like hospitals, hotels, schools, and industrial users.

The key to a more sustainable energy future is for us to become as efficient as possible and also invest heavily in renewable energy.

Combined Heat and Power (CHP) is a major efficiency measure and is significantly more efficient than generating electricity and thermal energy separately. Some CHP systems are capable of an overall efficiency of over 80 percent. This is double that for conventional systems. Rather than just have the thermal energy wasted, it is recovered and can be used for space heating, hot water, steam, air conditioning, water cooling, product drying, or other thermal energy needs. SUPPORT.

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Outside of the Phoenix area, you may call your legislators office toll-free at 1-800-352-8404. For more information on legislation go to <http://www.azleg.state.az.us>.

#### ANOTHER ONE BITES THE DUST:

HB 2843 was withdrawn from the Finance Committee. This is the one that would have created:

Tax credit for energy efficient appliances:

- \$150 credit for a central air conditioner or an air source heat pump that would qualify for the federal tax credit.
- \$100 for a washing machine certified as Energy Star by the USDE or the EPA.
- \$25 for a ceiling fan certified as Energy Star by the USDE or the EPA. The fan provision will be amended out because of changes in federal requirements.

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That's all for this month. Have a great summer!

Ben  
ASEA-Chair