

Sustainability Engineering Group Newsletter

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California green lights tough low carbon car standards



California approved some of the world's most ambitious green car standards, with officials

Issue: 27

February 2012



Dear Friend,

With the first month behind us the new year is starting off with a bang. Growth is starting to occur in many sectors and we are noticing a increase in new projects coming online. Let us help you make this year be a profitable one.

If you get a moment we have many of our past projects available for review on our website. Your input is greatly appreciated and we look forward to hearing from you.

Sincerely, Ali Fakhri
Sustainability Engineering Group
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Soldiers to learn sustainability techniques at ASU

Online certificate custom-designed to meet US Army readiness objectives



The design and establishment of an online graduate certificate in sustainability leadership at Arizona State University for soldiers and civilians in the U.S. Army, Army National Guard and Army Reserve was inaugurated Jan. 6 during a signing ceremony.

Participating in the event at the Army National Guard Bureau headquarters in Arlington, Va., were ASU President Michael M. Crow; Brig. Gen. Daniel J. Nelan, assistant to the director, Army National Guard; and Richard G. Kidd IV, deputy assistant secretary of the Army for energy and sustainability.

"This graduate-level certificate program introduces soldiers and civilians in the United States Army, Army National Guard and Army Reserve to major principles in sustainability science," Crow said. "The men and

rubber-stamping a wide-ranging package of regulations that promises to halve greenhouse gas emissions and deliver 1.4 million zero emission vehicles to state roads by 2025.

The new regulations were voted through unanimously by the California Air Resources Board (ARB) and will build on nationwide standards approved last year by the Obama administration that require all new US cars to double average fleet fuel efficiency to 54.5 miles per gallon by 2025.

"The California Advanced Clean Car rules will clean our air, fight climate change and provide cars that save consumers thousands of dollars at the pump," said ARB chair Mary D Nichols in a statement. "The board's action today will create thousands of new jobs, transforming California into the advanced car capital of the world.

"California is now in pole position in the race to provide next-generation ultra-clean cars to the global car market." Manufacturers will be required to cut average carbon emissions to 166 grams per mile by 2025, an improvement of 50 per cent on current levels and 34 per cent on expected 2016 levels.

They will also have to cut emissions of smog-

women who participate in this program will learn to apply sustainability tools, techniques and concepts to meet standards for operational efficiencies, energy and water conservation, use of renewable energy sources, and waste minimization, all of which will enhance mission readiness and cost effectiveness."

Read More: [ASU School of Sustainability](#)

2012 U.S. Energy Sector Outlook

Majority of Executives See Energy Independence Achievable Within 15 Years



A CIT's 2012 U.S. Energy Sector Outlook study of executives at middle market energy companies revealed that an overwhelming majority (70%) sees the potential for U.S. energy independence within 15 years, yet they expressed concern that the regulatory environment, along with trouble in the financial world and opposition to fracking, could dash that promise.

Executives also believe that this drive towards energy independence will be accomplished through a combination of approaches, such as expanding the use of natural gas, increasing domestic production of oil, and expanding the use of renewable natural resources. In addition, 85% of respondents indicated that they intend to seek financing in 2012.

Read More and get White Papers: [CIT](#)

LEEDing the way:

Green building standards becoming more the norm



With just more than a decade of practical application, LEED, or Leadership in Energy and Environmental Design, has redefined modern construction by creating new markets for eco-friendly building materials, retooling ancient ones and promoting awareness of sound ecological practices.

The U.S. Green Building Council launched the LEED certification program in 2000 and continues to tweak it. Today, more than 8 billion square feet of commercial space participate in the LEED program.

During the program's infancy, the primary holders of coveted silver, gold and platinum titles were government endeavors, but the functional LEED approach eventually legitimized design standards.

Read More: [Phoenix Business Journal](#)

Sustainable Pavements - A General Perspective:

AZ Conference on Roads and Streets 2012

forming pollution by an additional 75 per cent on anticipated 2014 levels.

In order to help ensure the standards are met manufacturers will have to comply with a Zero Emissions Vehicle (ZEV) regulation that will require over 1.4 million zero emission cars and trucks to be on the state's roads by 2025, while the state has also committed to ensure supporting refueling infrastructure is built for electric and hydrogen cars.

According to ARB, the rules will save Californian drivers \$5bn in operating costs by 2025 with each driver saving an average of nearly \$6,000 in reduced fuel costs over the life of a car. The standards are also expected to cut greenhouse gas emissions by 52 million tons by 2025, equivalent to taking 10 million cars off the road for a year.

Read more at:
[Business Green](#)



Staying green by reusing water

Emerging technologies and their attributes will have a game changing influence on tomorrow's transportation enterprise.



What are some of those developments, what will they mean, and how will it alter today's business practices and models? A sneak preview of what the future might hold for us and the next generation.

This presentation focuses on identifying various issues pertinent to sustainable pavements. These include an overview of sustainable pavement requirements, current sustainable pavement materials (porous, cool pavement and asphalt rubber), warm mix asphalt, recycled pavement and finally reinforced subgrade pavements.

Moderator Francis Matic ... Tucson I-J".

Speakers: Ali Fakh, PE, LEED AP, Principal, Sustainability Engineering Group and Dr. Kamil Kaloush, Associate Professor, Arizona State University

April 4th, 5th, and 6th, 2012
JW Marriott Starr Pass
Resort & Spa
3800 West Starr Pass Boulevard,
Tucson, AZ 85745

Read More: [Conference Sign Up and Info](#)

Please feel free to email us your input, comments and suggestions to help make this newsletter a success. Your input is very valuable. Have a wonderful day.

Sincerely,

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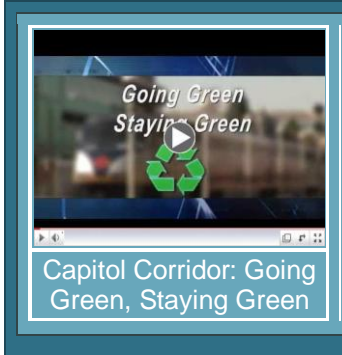


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We have updated our [LinkedIn](#) profile to help you learn more about the latest green initiatives and technologies along with the latest news and projects in sustainable engineering.

As a small engineering firm, we provide competitive prices with heightened level of services. We would like the opportunity to propose on your future civil engineering projects. SEG has served as a lead consultant for public and private agencies in Arizona and throughout the western region of the United States.

Additionally, we have a great deal of experience in Transportation,



Master Planning and entitlements, civil engineering, water / wastewater treatment plant, Hydraulic / Hydrology and sustainability investigation. SEG's key members provide more than 150 combined years of experience in public and private sector work. We do hold Professional Engineer licenses in Arizona and California.

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