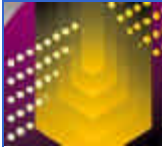


THE UPDATE

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The goal of our monthly update is to provide information on timely matters that may impact your practice and professional interests.



WITHOUT MANAGEMENT SAFETY WILL SUFFER

Dow Chemical safety expert Donald Jones stated earlier this month at the American Society of Safety Engineers Conference that safety management programs are crucial for helping firms boost their safety performance and experience greater productivity, reduced cost and increased team spirit. This involves safety management teams holding frequent meetings, undertaking hazard assessments, obtaining employees input on safety issues, creating top management buy-in and providing adequate employee safety and health training.



TURNING WIND POWER ON ITS SIDE BENEFITS USERS

Wind turbines typically rotate on a horizontal axis like traditional windmills, are considered noisy and unsightly by neighbors. are limited to operating at moderate wind speeds and at only 25-40% efficiency. Wyoming based TMA and other supporters of vertical- axis wind turbines (VAWT) believe wind turbines rotating on a vertical axis are more efficient than horizontal axis wind turbines, make less noise, require less spacing and are less conspicuous. Two inner blades of VAWT's capture the wind and rotate on a central axis while its three outer blades are fixed leading to a to a reduction in pressure in front of the rotating blades' edges. VAWTs can operate at higher wind speeds, e.g. up to 70 mph which is important since each doubling of wind speed results in an eightfold increase in available energy captured.



CORPS OF ENGINEERS REVISE THEIR ESTIMATES

The U.S. Army Corps of Engineers earlier this month raised its cost estimate for restoring New Orleans flood protection system from \$3.5 billion to 9.5 billion based on new data including more accurate subsidence information and other natural factors including altered vulnerability assessments to survive a 100 year flood

in view of rising sea levels and disappearing wetlands.



GET READY FOR COAL POWERED JETS

Researchers at Penn State University's Energy Institute have equipped a turboshaft jet engine, used to power helicopter rotors, with a coal based fuel that could someday replace military and commercial jet fuels. Coal is something the USA has in abundance and this new technology if commercialized could reduce our nations critical reliance on imported oil. Starting with refined coal oil, a coke manufacture by-product, it is next mixed with light cycle oil and then hydrogenated utilizing existing equipment already found at refineries, followed by distillation into diesel and jet fuel, heating oil and gasoline. Further production test runs are still required before commercialization and widespread use by private industry is possible.

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