



HIGHLIGHTS

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Published by

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Dear Readers,

21st September is celebrated as zero emission day world over. In its fourth year now, the day has gained more popularity than ever before, as more and more people start joining the movement by switching off their energy consumption from fossil fuels for a day.

As we all know, earth's population and energy consumption are rising exponentially, year after year. However, the source of this energy are fossil fuels - a finite and increasingly scarce resource.

The theme for this year was "GET CREATIVE," which gave people the world over an opportunity to think of new and innovative ways in which to avoid using fossil fuel energy - such as using public transportation, switching off the airconditioners, taking the stairs, car pooling, or even working from home.

We at BECI support this initiative wholeheartedly. If all of us make small changes to our lifestyles we can work together to significantly reduce our fossil fuel consumption and contribute towards a clean and green earth.

Thank you

*Please post your feedback on
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Policy Initiatives

India

Biopower producers to form pan-India body Biomass Developers Association in Hyderabad

www.thehindubusinessline.com/industry-and-economy/economy/article2396654.ece

The association would support achieve 19,000MW of capacity based on RE in India.

Indian Government prepares a national bioenergy mission to boost biopower

www.steelguru.com/indian_news/Government_to_boost_power_generation_from_biomass/222271.html

According to Mr Farooq Abdullah, the mission to be launched during the 12th Five Year Plan and it will offer a policy and regulatory environment to facilitate large scale capital investments in biopower stations. It will also encourage development of rural enterprises. The surplus biomass is estimated to be 150mn tonnes that can generate 16GW of power.

India's Ministry of Environment and Forests introduces e-waste rules 2011

www.onlineprnews.com/news/163389-1314097766-sgs-helps-manufacturers-observe-indias-new-ewaste-law.html

The law will apply to supply and usage chains, from producers to dismantlers of electrical and electronic equipment. It includes an Extended Producers' Responsibility (EPR) for recycling, reducing levels of hazardous substances in electronics and setting up collection centers.

MNRE: India's RE generation capacity increases 22%

www.rtn.asia/901_indias-renewable-power-generation-capacity-increases-22-over-last-five-quarters

India plans to invest \$6.5bn in RE

www.online.wsj.com/article/SB10001424053111904875404576532083969829912.html?mod=googlenews_wsj

The investment would add 3,400MW grid-linked and 130MW off-grid generation capacity based on RE sources.

IFC to invest \$15mn in equity financing to Shalivahana Green Energy Limited

www.power-eng.com/news/2011/08/1475457805/ifc-invests-in-indian-biomass-company-to-boost-power-supply-cut-carbon-emissions.html

The investment will support the companies expansion of about 200MW of its existing biopower projects in the Indian states of Chhattisgarh, Jharkhand, Madhya Pradesh, Orissa, and Tamil Nadu. IFC will also commit to purchase up to 1.5mn Certified Emission Reductions from energy projects developed by Shalivahana during 2013 to 2020.

RE sector receives 4,900crore as a Foreign Direct Investment

www.twocircles.net/2011aug26/rs4900_crore_fdi_renewable_energy_sector.html

The European Investment Bank grants €200mn loan to ICICI Bank of India for RE projects

www.clickgreen.org.uk/news/international-news/122475-€ope-gives-india-200m-loan-for-renewable-energy-projects.html

Experts from Bangladesh, Bhutan, India and Nepal gather in Kathmandu to discuss long-term energy security in the Himalayas

www.panda.org/wwf_news/?201213/Himalayan-nations-develop-road-map-in-lead-up-to-climate-summit

Government of India and ADB sign an agreement for tranche for \$250mn sustainable coastal protection plan

www.dredgingtoday.com/2011/08/17/india-usd-51-55-mn-adb-loan-to-tackle-coastal-erosion-in-karnataka-and-maharashtra/

The programme has envisaged to introduce environmental coastal protection in India, and to develop institutional capacity to meet the long-term needs of sustainable coastal protection and management.

Policy Initiatives

Himachal Pradesh Mid Himalayan Watershed Project registers for carbon trading scheme under UNFCCC

www.commodityonline.com/news/Himachal-carbon-trading-to-help-5000-backward-families-earn-green-money-41861-3-1.html

The Project would sequester the emission of 800mn tonnes of CO₂ from 2006 to 2025 by promoting biodiversity through native species in remote areas.

The Nordic Environment Finance Corporation Carbon Fund buys 4.6mn UN-backed carbon credits from 10 clean energy projects in India and southeast Asia

www.af.reuters.com/article/energyOilNews/idAFL5E7JG1P420110816

IndianOil & Indian Government to set up centre for advanced research on bio energy generation of bio fuels at a costs of \$11.6mn

www.biofuelsdigest.com/bdigest/2011/08/18/indianoil-indian-govt-set-up-centre-for-advanced-research-on-bioenergy/

Integrated Research & Action for Development institute to conduct climate change study at Surat and Haridwar

www.dnaindia.com/india/report_centre-picks-up-surat-for-study-on-effects-of-climate-change_1580025

North America

The Navy and the departments of agriculture and energy plans to invest \$510mn to build biofuel industry in the US

www.stripes.com/news/navy-pursuing-biofuel-development-1.153127

International Energy Agency: Global bio fuel mandates soar to 60bn US gallons by 2022

www.worldcrops.com/7280-biofuels-%E2%80%93-global-2022-mandates-add-pressure/

INEOS Bio and New Planet Energy form JV - INEOS New Planet BioEnergy for waste to biofuel facility in the US

www.energyboom.com/biofuels/biofuel-developers-using-federal-backing-move-forward

USDA has granted \$75mn to INPB.

Tokyo Government grants ¥100mn to Forestry Agency to examine debris as biofuel

www.yomiuri.co.jp/dy/national/T110725004145.htm

US DoE, the US DoA, and the US Navy grant \$ 510mn to private agencies to develop advanced aviation and marine biofuels

www.fultonsun.com/news/2011/aug/17/new-federal-aid-may-help-build-local-biodiesel-pla/

US DoE grants \$133.9mn to Abengoa Bioenergy Biomass of Kansas L.L.C. to develop cellulosic ethanol plant in Stephens County, Kansas

[www.ecoseed.org/bioenergy-blog/article/9-bioenergy/10925-abengoa-secures-\\$133-9-mn-loan-for-cellulosic-ethanol-plant](http://www.ecoseed.org/bioenergy-blog/article/9-bioenergy/10925-abengoa-secures-$133-9-mn-loan-for-cellulosic-ethanol-plant)

The project would convert about 300,000 tons of corn stalks and leaves into about 23mn gallons of ethanol every year. The project is expected to displace over 15.5mn gallons of gasoline, which will avoid over 139,000 tons of CO₂ emissions.

Georgia Tech receives \$2.4mn grant from US DOE

www.chron.com/news/article/Georgia-Tech-gets-2M-for-carbon-capture-research-2144737.php

Policy Initiatives

Nipissing University receives education grant from the Community Energy Partnerships to develop sustainable energy projects in Northern Ontario

www.nugget.ca/ArticleDisplay.aspx?e=3250912

The grants, providing a maximum of \$75,000, support novel research projects at academic and non-profit research institutions.

US spends \$14.7bn to support RE in 2010

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/us-spent-14-7bn-supporting-renewables-in-2010.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=e05abbf1cc-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Ontario Government introduces 'Green Energy Act' to strengthen RE sector

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/ontario-government-strengthens-renewable-impetus.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=78a00685c8-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

The act has received \$20.8bn and created 13,000 jobs.

US DOE grants \$15mn to the Linde group to develop CO₂ capture technologies

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/us-awards-15m-to-linde-group-for-cs-development.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=bf97709830-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

DOE grants \$2mn to battelle to evaluate CO₂ capture system

[www.ecoseed.org/component/resource/article/139-news-briefs-business/10994-battelle-gets-\\$2-mn-for-efficient-carbon-capture](http://www.ecoseed.org/component/resource/article/139-news-briefs-business/10994-battelle-gets-$2-mn-for-efficient-carbon-capture)

Federal Government to cut GHG emissions by 28 % in US which can save \$11bn energy cost by 2020

www.dailypress.com/news/science/dp-nws-cp-energy-coalition-20110821,0,5297014.story

Europe

Welwyn Hatfield Borough Council to provide £20,000 to 180,000-tonne Hertfordshire WTE facility

www.mrw.co.uk/news/welwyn-hatfield-council-pledges-20000-to-anti-efw-campaign/8618405.article

Energy and industry crop plantings in Germany for 2011 harvest reaches to 2.283mn ha: FNR

www.agra-net.com/portal2/home.jsp?template=newsarticle&artid=20017897782&pubid=ag072

Government to set up national waste management agency in Hungary

www.bbj.hu/life/govt-sets-up-national-waste-management-agency_59826

Archer Daniels Midland Company achieves the International Sustainability and Carbon Certification

www.foodingredientsfirst.com/news/ADM-First-to-Provide-ISCC-Certified-Sustainable-Soybeans-to-Europe.html

ADM will be the first company to provide Europe with ISCC-certified sustainable soybeans that meets EU's new Renewable Energy Directive requirements. The company would process 250,000 metric tons of sustainable soybeans by Autumn 2011.

University of Manchester receives \$ 10.7mn from EU to develop biocatalysts for chemical industry

www.ecoseed.org/component/resource/article/139-news-briefs-business/10978-e-u-project-to-develop-biocatalysts-for-chemical-industry

The developed biocatalysts can perform chemical reactions and would replace chemical catalysts with cleaner biocatalysis routes using renewable resources.

Policy Initiatives

British Government approves carbon accreditation scheme to recognise business' efforts to capture and store carbon

www.edie.net/news/news_story.aspx?id=20500&channel=0&title=Government+approves+carbon+accreditation+scheme+

The scheme would create Woodland Carbon Code. It would also provide credibility to UK woodland projects which are designed to reduce existing carbon in the atmosphere.

Georgia Tech receives \$2.4mn grant from US DOE

www.chron.com/news/article/Georgia-Tech-gets-2M-for-carbon-capture-research-2144737.php

Georgia tech would research on methods to cut GHG from power plants without raising the cost of electricity more than 35 %.

Africa

Construction of RE plants in South Africa

www.energized.co.za/?p=31

The Government has plan to purchase 1,000MW of RE by 2013 and 3,80MW of RE by 2016.

UNESCO approves international bio technology center at University of Nigeria

www.sunnewsonline.com/webpages/features/education/2011/aug/23/education-23-08-2011-002.html

Other Countries

South Australian Government expands business horizons with India in sectors like mining, education, bio-technology and RE resources

www.indiablooms.com/BusinessDetailsPage/businessDetails030811a.php

Malaysian Biotechnology Corp and Government agencies to work on biomass

www.biz.thestar.com.my/news/story.asp?file=/2011/8/29/business/9342492&sec=business

Pakistan to launch renewable FITs

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/wind/pakistan-on-brink-of-launching-renewable-fits.htm?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=4fa0bf776d-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Japan passes law to boost clean power generation

www.gigaom.com/cleantech/japan-passes-law-to-boost-clean-power-generation/

Council for sustainable development launches public engagement process on energy saving and carbon emission reduction in Hong Kong

www.7thspace.com/headlines/391016/council_for_sustainable_development_launches_public_engagement_process_on_energy_saving_and_carbon_emission_reduction_in_buildings.html

The purpose behind the process is to encourage stakeholders and the public to participate in discussions on the concerns, incentives and possible action plans for the demand-side management of electricity consumption which will promote energy saving and energy efficiency in buildings.

Business & Markets

India

Viridis Energy enters into strategic alliance with Abellon CleanEnergy

www.stockrants.com/2011/08/04/viridis-energy-enters-into-strategic-alliance-with-abellon-cleanenergy-an-integrated-sustainable-energy-group-based-in-india-tsx-vvrd.html

The collaboration of the two green energy companies covers three facets of the business: procurement and supply agreement for existing production, the proposed acquisition and development of Monte Lake property, and a strategic investment in Viridis.

Viridis Energy Inc.- a Cleantech manufacturer and distributor of alternative energy providing biomass fuel to global residential and industrial markets has signed a strategic agreement with Abellon CleanEnergy Limited, a leading integrated sustainable energy solutions provider based in Ahmedabad, India, with operations in the US, Canada, Europe, UK, India and Africa. The collaboration of the two green energy companies covers three facets of the business: procurement and supply agreement for existing production, the proposed acquisition and development of Monte Lake property, and a strategic investment in Viridis.

Construction of biomass based multi fuel captive power plant

www.articles.timesofindia.indiatimes.com/2011-08-23/patna/29918444_1_captive-power-plants-biomass-rice-husk

Husk Power Systems develops 40KW biopower plants

www.gigaom.com/cleantech/husk-power-lights-rural-india/

The plant will convert off-discarded rice husks and grasses into electricity for the people of rural India.

A Paper Mill in UP, India generates power using rice husk & waste management

www.upi.com/Science_News/2011/08/29/Paper-mill-leads-Indias-eco-friendly-movement/UPIU-3251312835706/

Bharat Renewable Energy and SG bio fuels to deploy Jatropha hybrids for bio diesel in India

www.prnewswire.com/news-releases/bharat-renewable-energy-forms-alliance-with-sg-biofuels-to-deploy-jatropha-hybrids-for-biodiesel-in-india-127293828.html

Construction of biogas plant in Chennai

www.ibnlive.in.com/news/city-1st-corporate-biogas-plant-opened/172820-60-120.html

The plant will produce 200 m3 of biogas from more than 3 tonnes of dung collected per day from 225 cows.

A biodiesel plant having capacity of 50 tonnes daily to be built near Devanahalli, Karnataka

www.dnaindia.com/bangalore/report_karnataka-s-second-bio-diesel-plant-to-come-up-near-devanahalli_1574888

IDFC to invest \$17.9mn into RE company Green Infra

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/solar/india%E2%80%99s-idfc-injects-17-9m-into-green-infra.html

North America

Construction of biopower plants in Canada

www.biofuelsandbiomass.energy-business-review.com/news/nations-energy-signs-lease-agreement-to-develop-biomass-projects-in-canada-100811

Business & Markets

BC Hydro to add four new biomass facilities

www.biomassmagazine.com/articles/5718/bc-hydro-to-add-four-new-biomass-facilities/

The plants will use local feedstocks comprising of sawmill residues, manufacturing/roadside debris, logging slash and standing timber as a fuel to generate 754GWh of electricity per year enough to power 70,000 homes. BC Hydro is adopting new technologies, including biomass energy to meet British Columbia's future electricity needs. The company has also acquired 16 PPA totaling 3,300GWh of energy per year.

Air Products company to build RE facility in Billingham

www.nebusiness.co.uk/business-news/latest-business-news/2011/08/11/bioenergy-go-ahead-in-billingham-51140-29218435/

The 49MW facility would power 50,000 homes.

Enviva LP and biomass energy, LLC to expand wood pellet manufacturing facility

www.yourrenewablenews.com/enviva+lp+and+biomass+energy%2C+llc+announce+strategic+alliance_67142.html

Both companies would produce more than 350,000 metric tons of wood pellets in 3 years.

Bio diesel of Las Vegas invests \$65mn to generate 30mn gallons of biodiesel per year

www.biofuelsdigest.com/bdigest/2011/08/18/biodiesel-of-las-vegas-to-restart-production/

Hawaiian Electric Company and Pacific Biodiesel sign agreement

www.biofuels-news.com/industry_news.php?item_id=3898

Under the agreement, Pacific Biodiesel will supply 250,000 gallons of biodiesel to 8 MW Honolulu International Airport Emergency Power Facility to be operated by Hawaiian Electric.

US Students from Darmouth College run bus fueled by biodiesel and vegetable oil derived from used cooking grease

www.pacetoday.com.au/news/making-diesel-fuels-environmentally-friendly

REG's Albert Lea bio diesel facility starts shipping in US

www.biofuelsdigest.com/bdigest/2011/08/26/regs-albert-lea-biodiesel-facility-starts-shipping/

Chrysler, ZeaChem partner sign MoU to develop advanced bio fuels

www.biofuelsdigest.com/bdigest/2011/08/15/chrysler-zeachem-partner-to-accelerate-policy-finance-and-offtake-for-advanced-biofuels/

They have plans to accelerate the development and market adoption of advanced cellulosic ethanol, by bringing together a leading global auto manufacturer and an innovative bio-based fuels and chemicals production company.

Kuraray and Amyris collaborate to develop Biofene Polymer products

www.bioplastic-innovation.com/2011/08/03/kuraray-and-amyris-collaborate-to-develop-biofene-polymer-products/

Biofene™ is a renewable hydrocarbon building block made using Amyris's technology. Under the agreement, Kuraray will use Biofene to replace petroleum-derived feedstock such as butadiene and isoprene in the production of specified classes of high-performing polymers. Upon successful completion of the technical development program for the first polymer, Amyris and Kuraray will enter into a supply agreement for Kuraray's exclusive use of Biofene in the manufacturing and commercialization of these polymer products.

Alberta provides \$17.5mn to Millar Western Forest for converting organic material found in pulp mill waste water into green energy

www.edmontonjournal.com/business/Alberta+chips+turning+wood+waste+into+green+energy/5212760/story.html

The project will involve the installation of an anaerobic hybrid digester (AHD) to pre-treat waste water system and produce a biogas to generate electricity - enough to power 6500 houses annually.

Business & Markets

Latin America

Mission NewEnergy to supply \$41mn of biodiesel to oil company

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/biofuel-biomass/mission-newenergy-to-supply-41m-in-biodiesel-to-oil-business.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=123ae87d74-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Bio diesel plant opens in Argentina

www.biofuels-news.com/industry_news.php?item_id=3920

São Martinho Group and Petrobras to invest \$74mn to build world's largest ethanol plant

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/biofuel-biomass/petrobras-forms-jv-to-build-worlds-largest-ethanol-plant.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=123ae87d74-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Europe

Construction of biopower plants having capacity of 299MW each at Selby, North Yorkshire and Immingham, North Lincolnshire

www.yourrenewablenews.com/uk+minister+gives+goahead+for+two+biomass+power+stations_66950.html;
www.greenwisebusiness.co.uk/news/decc-greenlights-drax-biomass-plants-2526.aspx; <http://www.bloomberg.com/news/2011-08-10/uk-gives-go-ahead-to-biomass-plants-to-power-1-million-homes.html>

Both plants of Drax Power would produce enough electricity for 1mn homes and it would also employ around 600 people on site during operation.

UK RE association launches back Biomass campaign

www.electric.co.uk/news/uk-renewable-energy-association-launches-back-biomass-12342101.html

The aim of the campaign is to achieve Government support for biopower in the UK.

Imtech and Galliford Try receives order for biogas plants from Anglian Water

www.4-traders.com/IMTECH-6412/news/IMTECH-67-mn-€o-orders-for-sustainable-biogas-plants-and-upgrading-of-waste-water-facilities--13766075/

The plant will process 25,000 tons of biosolids per year to generate 17GWh electricity.

Siemens to strengthen its renewables business through clean energy

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/siemens-renewable-division-to-be-split-up.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=e05abbf1ccNewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Tesco becomes 1st UK retailer to receive Government certification for producing biofuel in Britain

www.yourrenewablenews.com/tesco+becomes+first+uk+retailer+to+receive+government+certification+for+unique+bio+fuel_67226.html

Tesco has plans to achieve 50% reduction in CO₂ emission by 2020.

Construction of biogas plant in Europe

www.montrealgazette.com/technology/DUCK+BIODIESEL/5212199/story.html

The plant will process 9,000-10,000 m³ of waste per year to generate about 360KWh of electricity annually.

Indiana, Imperial Petroleum and Green Grease Solutions sign agreement for supply of bio diesel feedstock in Evansville

www.azom.com/news.aspx?newsID=30398

Drax coal power station to be transformed to produce biofuel in UK

www.businessgreen.com/bg/news/2098937/drax-coal-power-station-transformed-produce-biomass-fuel

Business & Markets

Other Countries

Alcan to convert coal fired power station into biopower station at a cost of £50mn

www.journallive.co.uk/north-east-news/todays-news/2011/08/08/alcan-plans-50m-biomass-conversion-for-power-station-61634-29196161/

Sri Lanka seeks for bio tech, eco-farming to expand processed food sector

www.asiantribune.com/news/2011/08/11/sri-lanka-looking-biotech-eco-farming-fuel-further-growth-booming-food-sector

RE expectes to generate RM 70bn in revenue by 2020 in Kuala Lumpur

www.bernama.com/bernama/v5/newsindex.php?id=610392

Dynamotive Energy Systems and Bio-Oil Sdn to explore cooperation for the development of pyrolysis oil market in South East Asia

www.biofuelsdigest.com/bdigest/2011/08/18/dynamotive-genting-bio-oil-ink-pyrolysis-rd-deal-for-malaysia/

The partners will evaluate the possible business opportunities for the construction of a commercial bio fuel plant, including biomass quantification, characterization and evaluation for use in pyrolysis process, bio fuel production.

Finace & Investments

Europe

Centurion invests \$20mn in carbon reduction company Blue Sphere, UK

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/centurion-invests-20m-in-carbon-reduction-company-blue-sphere.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=37cb5b9428-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Volkswagen to invest \$1.45bn in RE

www.rushlane.com/volkswagen-increases-investment-in-renewable-energy-1219580.html

Barclays Co. forms \$163mn RE fund for UK farms

www.bloomberg.com/news/2011-08-30/barclays-forms-163-mn-renewable-energy-fund-for-u-k-farms.html

Fast Facts

- 1** *The 358-year-old mausoleum Taj Mahal is suffering the consequences of a drying nearby Yamuna river due to Climate Changes in the Environment*
(<http://www.smh.com.au/travel/taj-mahal-in-peril-historian-20111007-1lccm.html>)
- 2** *Water scarcity encourages people to transport water long distances and store supplies in their homes which can increase the risk of household water contamination, causing illnesses.*
(http://www.who.int/features/factfiles/climate_change/facts/en/index6.html)

North America

New Jersey university to develop algae based biofuels

www.biodieselmagazine.com/articles/7952/research-projects-address-aquatic-plant-species

California State University-Fresno to study mustard potential for biodiesel for the Western side of the San Joaquin Valley

www.biofuelsdigest.com/bdigest/2011/08/30/mustard-biodiesel-promising-for-idled-san-joaquin-valley-lands/

The result has shown that the 40 acre test plots produced an average of 2.2 tons of seed per acre with the seeds later pressed for biodiesel production.

Researchers: Agave may make a suitable ethanol crop

www.oilprice.com/Alternative-Energy/Biofuels/Biofuels-and-Tequila-Agave-May-Make-a-Suitable-Ethanol-Crop.html

As per the research, Agave can grow in marginal or desert land, hot dry land with a high-yield and low environmental impact and, therefore, would not displace food crops.

Washington D.C.'s restaurants turn million of gallons of grease into bio fuel

www.huffingtonpost.com/david-ferris/biofuel-plant-wants-to-ea_b_919575.html

A unique tri-generation fuel cell produces heat, electricity and hydrogen in Orange County

www.ocstoragespace.com/energy-storage-news-tri-generation-fuel-cell-piloted-in-the-us/

The fuel cells have used biogas from municipal water waste treatment plant.

North America

Philippine Coconut Authority: Plan to produce biodiesel from coconut

www.pia.gov.ph/?m=1&t=1&id=49157;

www.biodieselmagazine.com/articles/7998/the-philippines-considers-higher-coco-biodiesel-mandate

Foxboro Co. to produce biodiesel from used cooking oil

www.thesunchronicle.com/articles/2011/08/22/news/10062444.txt

Philippine Rice Research Institute tests bio-fuel derived from used vegetable oil

www.mb.com.ph/articles/331786/vegetablebased-biodiesel-seen-power-farm-machines-cut-costs

University of New Hampshire & Chinese Academy of Agricultural Sciences in Beijing partner to study agricultural impacts on climate change in country

www.seacoastonline.com/articles/20110822-NEWS-108220323

Climate Change & Environment

India

Indian Space Research Organisation to launch satellites to keep a watch on climate change

www.articles.timesofindia.indiatimes.com/2011-08-24/nagpur/29921874_1_climate-tropiques-insat-3d

North America

UPS purchases 100 electric commercial delivery vehicles to deploy zero emission in California

www.ecoseed.org/component/resource/article/139-news-briefs-business/11005-ups-buys-100-delivery-cars-from-electric-vehicles-international

The vehicles will rid the need to consume 126,000 gallons of fuel annually.

NASA offer climate change workshop for state teachers in New York

www.watertowndailytimes.com/article/20110811/NEWS05/708119955

North America

Volkswagen to release a new electric emissions free car

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-region/europe/volkswagan-to-release-single-seater-ev.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=123ae87d74-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Abbreviations Used

mn - Million | bn - Billion | RE - Renewable Energy | BTL - Biomass-To-Liquid | CDM - Clean Development Mechanism | CCS - Carbon Capture & Storage | BCAP - Biomass Crop Assistance Program | MSW - Municipal Solid Waste | AD - Anaerobic Digestion | WTE - Waste-to-Energy



An environment friendly bricks, made out of fly ash, having superior strength and excellent quality. E-Brix contains right mix of high quality fly ash, sand and cement which provides better compressive strength with attractive smooth finish. It also saves on land degradation, environment pollution and construction cost.



- ✓ **Supreme Quality**
- ✓ **Better Finish**
- ✓ **Consistent Supply**
- ✓ **Environment Stewardship**

SPECIFICATIONS

Raw Material	Fly Ash, Sand, Cement
Size	230mm x 110mm x 75mm
Weight	3.0 kg
Dry Density	1450 kg/m ³
Compressive Strength	Approx 50-70 kg/cm ²

Properties	Normal Clay Brick	Fly Ash Brick
Color	Varying depending upon soil	Uniform pleasing colour
Shape and Size	Uneven shape coarse clay structure	Uniform in shape and smooth in finish
Bonding	Light	Dense
Weight	Heavier than fly ash	Light
Compressive Strength	Approx 35 kg/cm ²	Approx 50-70 kg/cm ²
Porosity	More porous	Less porous
Thermal Conductivity	1.25 – 1.35 W/m ² °C	0.90-1.05 W/m ² °C
Water Absorption	20-25%	6-12%

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