



## HIGHLIGHTS

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Dear Readers,

Amongst many days celebrated throughout the year, "World Earth Day" is one such day which holds everything together on the earth, to mark the significance of Planet Earth towards existence of all living beings.

Celebrated on April 22, 2012 worldwide, this year too, World Earth Day witnessed an enthusiastic participation from millions of people all over the world. Globally, more than 56,000 university students rallied their campuses in honor of Earth Day for a sustainable future. Tens of thousands of schools organized educational activities for kids, and over six hundred elected officials voiced their support for the planet by attending Earth Day events.

Top IT Companies in Bangalore, India celebrated Earth Day by giving a thumbs-up to the cause of protecting the Earth by signing and placing their thumb impressions on the 'Green Thumb' canvas.

Such actions by the proactive minds across the globe collectively prove how serious the prevailing array of environmental problems are, and how a consolidated approach could work better. The economic, environmental and social aspects of the society are being imbalanced, the simple, innovative and sustainable solutions to our needs can prove a key to attain sustainable development.

Let's pledge to work together with solidarity towards addressing sustainability paradigm through collective mindfulness and actions.

Thank You.

Please post your feedback on  
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[http://www.bioenergyindia.org/  
frmsendnewsfeedback.aspx](http://www.bioenergyindia.org/frmsendnewsfeedback.aspx)

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# Policy Initiatives

## INDIA

### Madurai Corporation to take green energy route for power generation

The Madurai Corporation has started focusing on energy generation from alternate measures such as solar and bio-ethanol. The power supply for corporation needs like pumping stations and taxation centres had significantly gone up after the corporation limits were expanded from 72 wards to 100 wards

[http://articles.timesofindia.indiatimes.com/2012-04-26/the-good-earth/31409320\\_1\\_bio-ethanol-solar-power-projects-green-energy](http://articles.timesofindia.indiatimes.com/2012-04-26/the-good-earth/31409320_1_bio-ethanol-solar-power-projects-green-energy)

### Puducherry seeks UN cooperation in assessing biomass potential

The Puducherry Government has approached the United Nations for assessing biomass potential as part of the administration's initiatives to promote non-conventional energy resources.

[www.ibnlive.in.com/generalnewsfeed/news/puducherry-seeks-un-cooperation-in-assessing-biomass-potential/985667.html](http://www.ibnlive.in.com/generalnewsfeed/news/puducherry-seeks-un-cooperation-in-assessing-biomass-potential/985667.html)

### State ready to enforce e-waste handling norms

The Odisha Pollution Control Board (OPCB) has engaged a Gurgaon-based private firm to collect the e-waste from government and private agencies and households and dispose it off scientifically.

[http://articles.timesofindia.indiatimes.com/2012-04-30/bhubaneswar/31506374\\_1\\_e-waste-collection-centres-odisha](http://articles.timesofindia.indiatimes.com/2012-04-30/bhubaneswar/31506374_1_e-waste-collection-centres-odisha)

### West Bengal Government joins hand with UK to develop fiscal instruments for climate change

The project is being funded by UK FCO's Prosperity Fund India programme, to help develop low carbon industrial policies of the states. The project objective is to help West Bengal and other states adopt appropriate fiscal instruments by 2013 to mobilize low carbon investment and facilitate low carbon industrial development.

[http://articles.economicstimes.indiatimes.com/2012-04-18/news/31361489\\_1\\_climate-change-low-carbon-business-west-bengal](http://articles.economicstimes.indiatimes.com/2012-04-18/news/31361489_1_climate-change-low-carbon-business-west-bengal)

### Mumbai likely to get agency to protect environment

[www.eco-business.com/news/mumbai-likely-to-get-agency-to-protect-environment/](http://www.eco-business.com/news/mumbai-likely-to-get-agency-to-protect-environment/)

### New green energy policy soon in West Bengal

The proposed policy would promote the use of RE in the state. RE currently accounts for 2.5% of total energy consumption in West Bengal.

[www.ibnlive.in.com/generalnewsfeed/news/new-green-energy-policy-soon-in-west-bengal/985262.html](http://www.ibnlive.in.com/generalnewsfeed/news/new-green-energy-policy-soon-in-west-bengal/985262.html)

### Parliamentary panel cites flaws in implementation of green programmes

[http://articles.timesofindia.indiatimes.com/2012-04-27/developmental-issues/31421037\\_1\\_parliamentary-panel-afforestation-programme-cag-report](http://articles.timesofindia.indiatimes.com/2012-04-27/developmental-issues/31421037_1_parliamentary-panel-afforestation-programme-cag-report)

### 9,000 Karnataka schools take green turn

The school will grow their own vegetables, plant medicinal plants in their backyard and be high on the green awareness quotient. The project is being coordinated by the Karnataka state and Pollution Control Board state education department officials will be roped in for the project's implementation.

[http://articles.timesofindia.indiatimes.com/2012-04-07/pollution/31304781\\_1\\_kspcb-karnataka-schools-green-initiatives](http://articles.timesofindia.indiatimes.com/2012-04-07/pollution/31304781_1_kspcb-karnataka-schools-green-initiatives)

### Kerala prisons to go green

<http://timesofindia.indiatimes.com/city/thiruvananthapuram/Kerala-prisons-to-go-green/articleshow/12622106.cms>

### Kalam favours making Chennai carbon neutral state

[www.news.outlookindia.com/items.aspx?artid=759249](http://www.news.outlookindia.com/items.aspx?artid=759249)

# Policy Initiatives

## NORTH AMERICA

### Biodiesel wants its tax break back

The National Biodiesel Board asked Congress to reinstate the \$1 per gallon biodiesel tax incentive “to avoid further disruption to an emerging American industry that is creating jobs across the country.

[www.desmoinesregister.com/article/20120426/NEWS/120426028/0/ENT/?odyssey=nav%7Chead](http://www.desmoinesregister.com/article/20120426/NEWS/120426028/0/ENT/?odyssey=nav%7Chead)

### Florida energy bill becomes law, includes biofuel tax exemptions

The bill specifically addresses biodiesel, ethanol and renewable fuel, which is defined as a fuel produced from biomass that is used to displace fossil transportation fuels.

[www.biodieselmagazine.com/articles/8438/fla-energy-bill-becomes-law-includes-biofuel-tax-exemptions](http://www.biodieselmagazine.com/articles/8438/fla-energy-bill-becomes-law-includes-biofuel-tax-exemptions)

## EUROPE

### Biomass subsidies protest in Scotland

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4849](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4849)

### Government aims to ignite biomass industry with new strategy in Europe

Accelerating the use of biomass to power homes, businesses, and transport could build a sector capable of supplying 11 per cent of all UK energy by the end of the decade.

[www.businessgreen.com/bg/news/2170330/uk-aims-ignite-biomass-industry-strategy](http://www.businessgreen.com/bg/news/2170330/uk-aims-ignite-biomass-industry-strategy)

### Denmark pledges 100% RE by 2050

Denmark's RE target will be realized through renewable heat, smart grid, biogas and other green technologies.

[www.energyefficiencynews.com/articles/4987/?cid=3](http://www.energyefficiencynews.com/articles/4987/?cid=3)

### Government urged to include aviation and shipping in UK carbon targets

[www.guardian.co.uk/environment/2012/apr/05/airline-shipping-carbon-emissions-uk-targets?newsfeed=true](http://www.guardian.co.uk/environment/2012/apr/05/airline-shipping-carbon-emissions-uk-targets?newsfeed=true)

### EU makes €50mn pledge for clean energy schemes in developing countries

[www.guardian.co.uk/global-development/2012/apr/16/eu-clean-energy-schemes-developing-countries](http://www.guardian.co.uk/global-development/2012/apr/16/eu-clean-energy-schemes-developing-countries)

### UK calls for tougher EU emissions targets

The minimum carbon price would help support the Emissions Trading Scheme (ETS), which has seen the price of carbon tumble from £28 a tonne in 2006, to around £6 now.

[www.climateactionprogramme.org/news/renewable\\_energy\\_companies\\_call\\_for\\_tougher\\_eu\\_emissions\\_targets/](http://www.climateactionprogramme.org/news/renewable_energy_companies_call_for_tougher_eu_emissions_targets/)

### Italy proposes carbon tax to fund green energy developments

[www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/italy-proposes-carbon-tax-to-fund-green-energy-developments.html?utm\\_source=NewNet+Clean+Energy+Investor+Newsletter&utm\\_campaign=fdd8092be4-TEST\\_NewNet\\_Clean\\_Energy\\_Investor&utm\\_medium=email](http://www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/italy-proposes-carbon-tax-to-fund-green-energy-developments.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=fdd8092be4-TEST_NewNet_Clean_Energy_Investor&utm_medium=email)

# Policy Initiatives

## Denmark to lead action on falling carbon prices

[www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/denmark-to-lead-action-on-falling-climate-prices.html?utm\\_source=NewNet+Clean+Energy+Investor+Newsletter&utm\\_campaign=b08b744700-TEST\\_NewNet\\_Clean\\_Energy\\_Investor&utm\\_medium=email](http://www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/denmark-to-lead-action-on-falling-climate-prices.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=b08b744700-TEST_NewNet_Clean_Energy_Investor&utm_medium=email)

## OTHER COUNTRIES

## Philippine sugar millers ask Government for biomass power tariff

[www.bworldonline.com/content.php?section=Economy&title=Sugar-millers-ask-gov%27t-for-biomass-power-tariff&id=49823](http://www.bworldonline.com/content.php?section=Economy&title=Sugar-millers-ask-gov%27t-for-biomass-power-tariff&id=49823)

## INDIA

### Biopower producers seek tariff revision

Biopower producers appealed to the Center to launch biomass mission on the lines of solar mission to attract more investments. Biopower producers brought notice to the Center that a large number of biopower projects were lying idle or running below capacity due to low tariff.

[www.business-standard.com/india/news/biomass-based-power-producers-seek-tariff-revision/470758/](http://www.business-standard.com/india/news/biomass-based-power-producers-seek-tariff-revision/470758/)

### Punjab can produce 5,000MW from biomass

Punjab has the potential to produce 3,000-5,000 MW of electricity from biomass the province generates annually as agricultural waste. Most of the 35mn ton biomass generated annually in Punjab goes waste through inefficient burning

[www.thenews.com.pk/Todays-News-3-104968-Punjab-can-produce-5000MW-from-biomass-report](http://www.thenews.com.pk/Todays-News-3-104968-Punjab-can-produce-5000MW-from-biomass-report)

### Biodiesel extracted from sea algae set to propel vehicles

The test run of vehicle running on B100 marine microalgal biodiesel in New Delhi. The 200 km test run will be flagged off by Union minister for earth sciences Vilasrao Deshmukh in the presence of scientists belonging to a consortium of nine laboratories led by Bhavnagar-based Central Salt and Marine Chemicals Research Institute.

[http://articles.timesofindia.indiatimes.com/2012-03-30/rajkot/31260543\\_1\\_biodiesel-generation-biofuels-marine-microalgae](http://articles.timesofindia.indiatimes.com/2012-03-30/rajkot/31260543_1_biodiesel-generation-biofuels-marine-microalgae)

### US Teams with India in Massive New Biofuel Project

The US launched a five-year, \$125mn alternative energy research project with India, aimed partly at developing biofuels from non-food crops.

[www.cleantechnica.com/2012/04/23/u-s-teams-with-india-in-massive-new-biofuel-project/](http://www.cleantechnica.com/2012/04/23/u-s-teams-with-india-in-massive-new-biofuel-project/)

### Nagpur taps power from sugar-cane left over

The left-over crush stems are used in generating 25MW of power. The power is used in brewing wine and manufacturing bio-diesel.

[www.e-pao.net/GP.asp?src=7..250412.apr12](http://www.e-pao.net/GP.asp?src=7..250412.apr12)

### HUL bets on innovations to reach sustainable goal

[http://articles.economictimes.indiatimes.com/2012-04-25/news/31398987\\_1\\_nitin-paranjpe-hindustan-unilever-consumers](http://articles.economictimes.indiatimes.com/2012-04-25/news/31398987_1_nitin-paranjpe-hindustan-unilever-consumers)

### TATA Power and Exxaro launch Cleaner Energy Company Cennergi

The project is focuses on RE projects in Southern Africa and Cennergi's strategy to create a balanced portfolio of generation assets.

[www.steelguru.com/indian\\_news/TATA\\_Power\\_and\\_Exxaro\\_launch\\_Cleaner\\_Energy\\_Company\\_Cennergi/257780.html](http://www.steelguru.com/indian_news/TATA_Power_and_Exxaro_launch_Cleaner_Energy_Company_Cennergi/257780.html)

### Stoves that make breathing easy

[www.thehindu.com/news/national/article3323594.ece](http://www.thehindu.com/news/national/article3323594.ece)

### Industry comes together to make Pune 'green'

The initiative is aimed at creating awareness amongst employees of the IT industry and promotes appropriate recycling of e-Waste through NASSCOM's e-Waste Collection Drive.

[www.indiaeducationdiary.in/Shownews.asp?newsid=12862](http://www.indiaeducationdiary.in/Shownews.asp?newsid=12862)

# Business & Markets

## Gujarat has 749GW of RE potential: TERI

As per study conducted by TERI, Gujarat's potential for concentrated solar power with water availability stands at 345.71GW, solar PV wind hybrid excluding CSP at 240.60GW, only SPV excluding wind and CSP at 21.36GW, only wind excluding solar potential at 139.21GW and biomass at 1.89GW.

[www.articles.economictimes.indiatimes.com/2012-04-20/news/31373873\\_1\\_renewable-energy-gw-teri](http://www.articles.economictimes.indiatimes.com/2012-04-20/news/31373873_1_renewable-energy-gw-teri)

## NORTH AMERICA

### Ernst Biomass pushing pellets as next fuel source

[www.meadvilletribune.com/local/x2108299607/Ernst-Biomass-pushing-pellets-as-next-fuel-source](http://www.meadvilletribune.com/local/x2108299607/Ernst-Biomass-pushing-pellets-as-next-fuel-source)

### BioMass packaging introduces ASTM D-6400 certified compostable can liners in South Dakota

BioMass Packaging has introduced new compostable can liners which can possess high strength and are suitable for use in cafeterias, hotels, restaurants, homes and other businesses that want to dispose their organic and food waste to compost.

[www.azom.com/news.aspx?newsID=32528](http://www.azom.com/news.aspx?newsID=32528)

### SRS Marks successful operational startup of new biomass cogeneration facility in South Carolina

The plant has the capacity to combust 385,000 tons of forest residue annually into 20MW of clean power.

[www.reuters.com/article/2012/03/07/idUS248864+07-Mar-2012+BW20120307](http://www.reuters.com/article/2012/03/07/idUS248864+07-Mar-2012+BW20120307)

### ProSelect Gas Treating Inc uses biomass emissions as greenhouse plant fertilizer

The system allows greenhouse operators to fertilize their fruits and vegetables with carbon dioxide captured from the biomass emissions.

[www.biomassmagazine.com/articles/6301/technology-uses-biomass-emissions-as-greenhouse-plant-fertilizer/](http://www.biomassmagazine.com/articles/6301/technology-uses-biomass-emissions-as-greenhouse-plant-fertilizer/)

### New biodiesel hub sets up in Northwest Portland

[www.sustainablebusinessoregon.com/index.php/articles/2012/04/new-biodiesel-hub-sets-up-in-northwest.html](http://www.sustainablebusinessoregon.com/index.php/articles/2012/04/new-biodiesel-hub-sets-up-in-northwest.html)

### University of Idaho using mustard oil for biodiesel

[www.thebioenergysite.com/articles/1189/using-mustard-oil-for-biodiesel](http://www.thebioenergysite.com/articles/1189/using-mustard-oil-for-biodiesel)

### First transpacific biofuel flight from Washington to Tokyo

The plane flew on a mixture of biofuel derived from used cooking oil and conventional fuel, cutting about 30% of the CO<sub>2</sub> emissions usually produced.

[www.biofuels-news.com/industry\\_news.php?item\\_id=4840](http://www.biofuels-news.com/industry_news.php?item_id=4840)

### Philadelphia plans biogas project

The \$47.5mn construction project is designed to generate 5.6MW of power.

[www.americanrecycler.com/0412/1475philadelphia.shtml](http://www.americanrecycler.com/0412/1475philadelphia.shtml)

## Business & Markets

### Apple to build 4.8MW fuel cell system powered by Biogas at Its NC Data Center

The 24 biogas fuel cells will have a capacity of 200kW each.

[www.greenoptimistic.com/2012/04/02/apple-fuel-cell-biogas-bloom-energy/](http://www.greenoptimistic.com/2012/04/02/apple-fuel-cell-biogas-bloom-energy/)

### 2G Cenergy to build biogas system manufacturing facility in Florid

The company has installed 2300 biogas CHP systems, at dairy and livestock farms, municipal waste management facilities, waste water treatment plants and organic waste disposal sites.

[www.biomassmagazine.com/articles/6244/2g-cenergy-to-build-biogas-system-manufacturing-facility-in-fla](http://www.biomassmagazine.com/articles/6244/2g-cenergy-to-build-biogas-system-manufacturing-facility-in-fla)

### USDA supports western plains energy biogas project

The project will utilize waste energy resources from a local cattle feedlot to replace almost 90 % of the fossil fuels currently used by Western Plains Energy.

[www.ethanolproducer.com/articles/8697/usda-supports-western-plains-energy-biogas-project](http://www.ethanolproducer.com/articles/8697/usda-supports-western-plains-energy-biogas-project)

### Waste management turns trash into energy

[www.msnbc.msn.com/id/47040669/ns/business-motley\\_fool/](http://www.msnbc.msn.com/id/47040669/ns/business-motley_fool/)

## EUROPE

### Dong to spend \$795mn turning fossil plants to wood

Dong Energy A/S, Denmark's state- controlled utility, plans to invest about 500mn pounds (\$795 million) to convert three of its coal- and gas-fired power stations to generate heat and electricity from wood pellets.

[www.bloomberg.com/news/2012-04-11/dong-energy-to-spend-794-million-turning-fossil-plants-to-wood.html](http://www.bloomberg.com/news/2012-04-11/dong-energy-to-spend-794-million-turning-fossil-plants-to-wood.html)

### £1.1mn biomass plant opens in Gloucestershire

The facility will treat the 2,350 tonnes of waste wood – extracted chipboard dust and residual off-cuts.

[www.letsrecycle.com/news/latest-news/energy/ps1.1-million-biomass-plant-opens-in-gloucestershire](http://www.letsrecycle.com/news/latest-news/energy/ps1.1-million-biomass-plant-opens-in-gloucestershire)

### Lincolnshire farming estate could use its crops to fuel £200k biomass heater in UK

William Cracroft-Eley is looking to install biomass boilers at Hackthorn Hall. The plant will be powered by miscanthus grass pellets.

[www.thisislincolnshire.co.uk/Lincolnshire-farming-estate-use-crops-fuel-pound/story-15849862-detail/story.html](http://www.thisislincolnshire.co.uk/Lincolnshire-farming-estate-use-crops-fuel-pound/story-15849862-detail/story.html)

### E.ON UK biomass conversion on track for 2013

E.ON plans to start firing one of its 500MW coal units at Ironbridge with wood pellets from early 2013.

[www.reuters.com/article/2012/04/05/britain-biomass-eon-idUSL6E8F4BUB20120405](http://www.reuters.com/article/2012/04/05/britain-biomass-eon-idUSL6E8F4BUB20120405)

### Luxury hotel launches new biomass plant in Anglesey, UK

A four-star Welsh hotel has installed a £0.5mn biomass plant on site in a bid to generate its own biomass fuel and cut its energy bills.

[www.edie.net/news/news\\_story.asp?id=22260&title=Luxury+hotel+launches+new+biomass+plant+](http://www.edie.net/news/news_story.asp?id=22260&title=Luxury+hotel+launches+new+biomass+plant+)



## Business & Markets

### Bristol biomass plant to benefit local community

The plant will be fueled by sustainably sourced wood biomass mostly imported virgin wood, dedicated energy crops like Miscanthus and locally sourced waste wood.

[www.thebioenergysite.com/news/10645/bristol-biomass-plant-to-benefit-local-community](http://www.thebioenergysite.com/news/10645/bristol-biomass-plant-to-benefit-local-community)

### Enel Green Power sign an agreement to build a concentrated solar power and biomass plant in Italy

The molten salts system will allow the plant to generate electricity in the absence of sunlight. Locally produced biomass will also be transformed into biogas to integrate the supply from the solar power plant, and convert into biofuel to power urban public transport

[www.irishenergynews.com/home/index.php/2012/04/16/enel-gree-power-sign-an-agreement-to-build-a-concentrated-solar-power-and-biomass-plant/](http://www.irishenergynews.com/home/index.php/2012/04/16/enel-gree-power-sign-an-agreement-to-build-a-concentrated-solar-power-and-biomass-plant/)

### ERA-NET Bioenergy a network of organizations set to support biomass and biogas projects in UK

[www.theengineer.co.uk/policy-and-business/business-briefs/organisations-set-to-support-biomass-and-biogas-projects/1012332.article](http://www.theengineer.co.uk/policy-and-business/business-briefs/organisations-set-to-support-biomass-and-biogas-projects/1012332.article)

### Oslo's Norway buses to run on biogas

The Government is planning to run all the city's buses on biogas produced from food waste.

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4826](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4826)

### Turkey launched its first biogas plant

The biogas plant will process 50 tons of cow and sheep manure daily to produce 3000 m3 of biogas. The plant uses Jenbacher co-generation unit to convert biogas into electricity (249 kW)and heat (200 kW).

[www.openpr.com/news/219642/Turkey-Launched-Its-First-Biogas-Plant.html?SID=5c308611e91c3c02e6c5c034e35b912f](http://www.openpr.com/news/219642/Turkey-Launched-Its-First-Biogas-Plant.html?SID=5c308611e91c3c02e6c5c034e35b912f)

### Weltec Biopower begins construction of biogas plant in France

The plant is equipped with a fermenter of 3,052 cubic metres and separator, solid matter dosing feeder, two storage tanks, digestate storage unit, pump station, control, and drying.

[www.energynext.in/weltec-biopower-builds-biogas-plant-in-france/](http://www.energynext.in/weltec-biopower-builds-biogas-plant-in-france/)

### Taaleritehdas to build network of biogas plants in Finland

The average waste processing capacity of the plants will be 60,000 tons.

[www.investineu.com/content/taaleritehdas-build-network-biogas-plants-finland-12c3](http://www.investineu.com/content/taaleritehdas-build-network-biogas-plants-finland-12c3)

### UPS to use biogas-powered vehicles during London Olympics

[www.postandparcel.info/46980/news/environment-news-2/ups-to-use-biogas-powered-vehicles-during-london-olympics/](http://www.postandparcel.info/46980/news/environment-news-2/ups-to-use-biogas-powered-vehicles-during-london-olympics/)

### Energy-from-waste set for expansion in UK

[www.eaem.co.uk/news/energy-waste-set-expansion](http://www.eaem.co.uk/news/energy-waste-set-expansion)

### Farm waste has potential to power homes in UK

The Swancote Farm project, which has a capacity of 1MW – which will help maximize biogas production by up to 20% compared to other systems and two residue storage tanks

[www.farminguk.com/news/Farm-waste-has-potential-to-power-homes\\_23295.html](http://www.farminguk.com/news/Farm-waste-has-potential-to-power-homes_23295.html)

### Plastic to energy plants planned for the Netherlands

The plants are estimated to process about 200,000 tonnes a year of waste.

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4765](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4765)

# Business & Markets

## UK launches new carbon capture initiative

[www.online.wsj.com/article/SB10001424052702303816504577321500219494564.html?mod=googlenews\\_wsj](http://www.online.wsj.com/article/SB10001424052702303816504577321500219494564.html?mod=googlenews_wsj)

## MiracleGen Launches its CHPs into the European Market

The Combined Heat & Power are fueled with biogas, wood gas, natural gas, LPG or diesel.

[www.marketwatch.com/story/miraclegen-launches-its-chps-into-the-european-market-2012-04-11](http://www.marketwatch.com/story/miraclegen-launches-its-chps-into-the-european-market-2012-04-11)

## UN, EU to boost RE

[www.observer.ug/index.php?option=com\\_content&view=article&id=18481:un-eu-to-boost-renewable-energy&catid=38:business&Itemid=68](http://www.observer.ug/index.php?option=com_content&view=article&id=18481:un-eu-to-boost-renewable-energy&catid=38:business&Itemid=68)

## EuroSite, The Ability Group sign £4.1m Hilton clean power deal

EuroSite Power will install and operate a Combined Heat and Power system, producing up to 200kW of power and around 1.63MWh of total energy per year

[www.researchviews.com/energy/power/biopower/NewsReport.aspx?ArticleID=516382&sector=Biopower](http://www.researchviews.com/energy/power/biopower/NewsReport.aspx?ArticleID=516382&sector=Biopower)

## LATIN AMERICA

### Maple Energy starts up ethanol facility in Peru

The company is harvesting and processing sugarcane, which it will turn into ethanol in its new facility.

[www.biofuels-news.com/industry\\_news.php?item\\_id=4778](http://www.biofuels-news.com/industry_news.php?item_id=4778)

## AFRICA

### Zest WEG Group to deliver 1.2 MW biopower generation plant

[www.engineeringnews.co.za/article/biogas-and-steam-used-to-generate-power-2012-04-20](http://www.engineeringnews.co.za/article/biogas-and-steam-used-to-generate-power-2012-04-20)

### Investors seek \$8.9mn MIGA insurance risk cover for Ghana biomass project

The project involves the establishment of a greenfield company, Takoradi Renewable Energy Limited, which will produce biomass from rubber trees in plantations for export through the Takoradi port to European markets for biomass power generation.

[www.ghanabusinessnews.com/2012/04/02/investors-seek-8-9m-miga-insurance-risk-cover-for-ghana-biomass-project/](http://www.ghanabusinessnews.com/2012/04/02/investors-seek-8-9m-miga-insurance-risk-cover-for-ghana-biomass-project/)

### Namibia: New waste transfer station commissioned

The station will be used for waste generated in the south-eastern part of Windhoek, such as Auasblick, Cimbebasia, Olympia and Kleine Kuppe.

[www.allafrica.com/stories/201204300256.html](http://www.allafrica.com/stories/201204300256.html)

### Nigeria: Saving trees, saving lives using clean cook-stoves

Cook stove organized by the Nigerian Alliance for Clean cook stove. The stoves have the potential of saving huge quantity of firewood and charcoal that would have been wasted using the traditional way of firewood cooking.

[www.allafrica.com/stories/201204050556.html](http://www.allafrica.com/stories/201204050556.html)

# Business & Markets

## UN family launches “sustainable energy for all” initiative in Sierra Leone

[www.sierraexpressmedia.com/archives/38187](http://www.sierraexpressmedia.com/archives/38187)

## OTHER COUNTRIES

### Jaya Municipal Council and its synergies partner, Universiti Putra Malaysia plans Green initiative produces first biomass town in Malaysia

[www.nst.com.my/streets/central/green-initiative-produces-our-first-biomass-town-1.63029](http://www.nst.com.my/streets/central/green-initiative-produces-our-first-biomass-town-1.63029)

### Areva to build Thai biomass plant

The plant has a capacity of 9.9MW and will use rice husk and bagasse as feedstock.

[www.biomassmagazine.com/articles/6204/areva-to-build-9-9-mw-biomass-plant-in-thailand](http://www.biomassmagazine.com/articles/6204/areva-to-build-9-9-mw-biomass-plant-in-thailand)

### Sembcorp opens its first biomass steam production plant in Singapore

The company use waste wood, as well as industrial and commercial waste, to produce steam for industries on Jurong Island. Sembcorp's solid waste collection business has been sending its wood waste to fuel this S\$34mn woodchip steam production plant.

[www.channelnewsasia.com/stories/singaporebusinessnews/view/1197217/1.html](http://www.channelnewsasia.com/stories/singaporebusinessnews/view/1197217/1.html)

### Biomass gasifier to burn farm waste in Philippines

The gasification process works by using heat in an oxygen-starved environment to release combustible gases such as CO, CO<sub>2</sub>, H<sub>2</sub> and methane. The gas produced from this is then cooled and cleaned and put into a rotary engine to produce power.

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4781](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4781)

### First climate change adaptation project launched in Pakistan

[www.pakobserver.net/detailnews.asp?id=150751](http://www.pakobserver.net/detailnews.asp?id=150751)

### Prison oil to be converted into renewable fuel

The Department of Corrections has signed a deal with Biodiesel New Zealand which will see about 5000 liters of used cooking oil a month converted to renewable fuel.

[www.tvnz.co.nz/national-news/prison-oil-coverted-into-renewable-fuel-4837682](http://www.tvnz.co.nz/national-news/prison-oil-coverted-into-renewable-fuel-4837682)

## INDIA

### India, US joint \$125mn fund for research in clean energy

[http://articles.economicstimes.indiatimes.com/2012-04-14/news/31342088\\_1\\_solar-energy-solar-power-photovoltaics](http://articles.economicstimes.indiatimes.com/2012-04-14/news/31342088_1_solar-energy-solar-power-photovoltaics)

### India to pump in Rs 2lakh crore in 12th Plan to save climate

[http://articles.timesofindia.indiatimes.com/2012-04-30/global-warming/31506507\\_1\\_national-action-plan-climate-change-green-india-missio](http://articles.timesofindia.indiatimes.com/2012-04-30/global-warming/31506507_1_national-action-plan-climate-change-green-india-missio)

## NORTH AMERICA

### USDA to provide \$5mn grant to Western Plains

The grant is to build a machine to improve the process of converting ethanol into fuel. The plant is expected to replace 90% of the fossil fuels Western Plains uses to process the fuel with waste from a cattle feedlot.

[www.dodgeglobe.com/news/x1170667215/USDA-to-provide-5-million-grant-to-Western-Plains](http://www.dodgeglobe.com/news/x1170667215/USDA-to-provide-5-million-grant-to-Western-Plains)

### Obama administration announces new funding for biomass research and development initiative

The projects funded through the Biomass Research and Development Initiative (BRDI) – a joint program through the U.S. Department of Agriculture (USDA) and the U.S. Energy Department (DOE) – will help develop economically and environmentally sustainable sources of renewable biomass and increase the availability of renewable fuels and bio based products that can help replace the need for gasoline and diesel in vehicles and diversify our energy portfolio.

[www.energy.gov/articles/obama-administration-announces-new-funding-biomass-research-and-development-initiative](http://www.energy.gov/articles/obama-administration-announces-new-funding-biomass-research-and-development-initiative)

### US Government to grant more bioenergy and biofuels funding

Funding under the feedstock development section will cover improving biomass feedstock and their supply, including the harvest, transport, preprocessing and storage necessary to produce biofuels and bio-based products.

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4782](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4782)

### US Energy Department announces up to \$15mn to research biomass-based supplements for traditional fuels

The Energy Department's investments to develop renewable transportation fuels are a key part of the Obama Administration's above energy strategy to develop America's domestic energy resources and reduce the nation's dependence on foreign oil.

[www.environmental-expert.com/news/energy-department-announces-up-to-15-million-to-research-biomass-based-supplements-for-traditional-fuels-288475](http://www.environmental-expert.com/news/energy-department-announces-up-to-15-million-to-research-biomass-based-supplements-for-traditional-fuels-288475)

### President Obama invests in cow manure as next green energy business

President Obama's Department of Agriculture (USDA) committed \$5mn to the construction of a "biogas anaerobic digester" that will use cow manure to heat an ethanol plant.

[www.examiner.com/article/president-obama-invests-cow-manure-as-next-green-energy-business](http://www.examiner.com/article/president-obama-invests-cow-manure-as-next-green-energy-business)

### UBCO lands major grant to reduce GHG emissions, improving watering and fertilization

[www.kelownacapnews.com/news/148312775.html](http://www.kelownacapnews.com/news/148312775.html)

# Finance & Investments

## United States Energy Department announced up to \$2.5mn to advance technologies for clean biomass cook stove

The funding will support the development of innovative cookstove designs that allow users to burn wood or crop residues more efficiently and with less smoke than open fires and traditional stoves.

[www.thecyprusstimes.com/article/News/National\\_News/ENERGY\\_DEPARTMENT\\_ANNOUNCES\\_25\\_MILLION\\_TO\\_ADVANCE\\_TECHNOLOGIES\\_FOR\\_BIOMASS\\_COOKSTOVES/58676](http://www.thecyprusstimes.com/article/News/National_News/ENERGY_DEPARTMENT_ANNOUNCES_25_MILLION_TO_ADVANCE_TECHNOLOGIES_FOR_BIOMASS_COOKSTOVES/58676)

## Denham earmarks 20% of \$3bn fund for RE

[www.bloomberg.com/news/2012-04-05/denham-earmarks-20-of-3-billion-fund-for-renewable-energy.html](http://www.bloomberg.com/news/2012-04-05/denham-earmarks-20-of-3-billion-fund-for-renewable-energy.html)

## EUROPE

### UK to give £60mn to developing countries to build carbon capture and storage plants

The money will go towards demonstrating the crucial but fledgling technology, which involves burying carbon emissions from fossil fuel power stations.

[www.guardian.co.uk/environment/2012/apr/26/carbon-capture-storage-developing-countries?newsfeed=true](http://www.guardian.co.uk/environment/2012/apr/26/carbon-capture-storage-developing-countries?newsfeed=true)

### UK Plans £ 35mn fund for low carbon entrepreneurs

[www.bloomberg.com/news/2012-04-25/u-k-plans-35-million-pound-fund-for-low-carbon-entrepreneurs.html](http://www.bloomberg.com/news/2012-04-25/u-k-plans-35-million-pound-fund-for-low-carbon-entrepreneurs.html)

### Government gives £80mn to funds for waste investment

[www.uk.reuters.com/article/2012/04/25/uk-low-carbon-idUKBRE8300NV20120425](http://www.uk.reuters.com/article/2012/04/25/uk-low-carbon-idUKBRE8300NV20120425)

## OTHER COUNTRIES

### Federal Government funds Sydney climate change institute

The facilities at the institute act as a climatic time machine that will give scientists unique access to study the effects of elevated atmospheric carbon dioxide, changed rainfall patterns and rising temperatures on the environment

[www.news.ninensn.com.au/national/8446624/govt-funds-sydney-climate-change-institute](http://www.news.ninensn.com.au/national/8446624/govt-funds-sydney-climate-change-institute)

## INDIA

### Center for biofuels set up at National Institute for Interdisciplinary Science and Technology

The facility has come up as a nodal center for research on biofuels with the funding from the Technology Information, Forecasting and Analysis (TIFAC), Department of Science and Technology and the Council of Scientific and Industrial Research (CSIR). The CBF is actively involved in research on developing alternative renewable transportation fuels such as bioethanol and biodiesel.

[www.ibnlive.in.com/news/centre-for-biofuels-set-up-at-niist/251335-60-123.htm](http://www.ibnlive.in.com/news/centre-for-biofuels-set-up-at-niist/251335-60-123.htm)

## NORTH AMERICA

### DOE fuels biomass-based research

The US DOE has made available up to \$15mn to demonstrate bio-oils -- biomass-based oil supplements that can be blended with petroleum to help the U.S. reduce foreign oil use and diversify the nation's energy portfolio.

[www.fierceenergy.com/story/doe-fuels-biomass-based-research/2012-04-10](http://www.fierceenergy.com/story/doe-fuels-biomass-based-research/2012-04-10)

### NASA develops new way to cultivate algae

NASA has demonstrated a new way to grow algae, clean waste water, capture CO<sub>2</sub> and produce feed-stock that can be used for biofuels production, without the need for water, fertilizer or land use.

[www.biofuels-news.com/industry\\_news.php?item\\_id=4842](http://www.biofuels-news.com/industry_news.php?item_id=4842)

## AFRICA

### Southern African countries collaborate on plans for climate research center

[www.guardian.co.uk/global-development/2012/apr/23/southern-africa-climate-research-centre?newsfeed=true](http://www.guardian.co.uk/global-development/2012/apr/23/southern-africa-climate-research-centre?newsfeed=true)

# Climate Change & Environment

## INDIA

### Indo-African ties can help prevent climate change

The training programme was third in a series of eight such programmes to be held at the the Central Academy for State Forest Service. It was attended by 28 participants including senior forest officers, academicians and scientists from 15 African countries.

[www.dailypioneer.com/nation/54474-indo-african-ties-can-help-prevent-climate-change.html](http://www.dailypioneer.com/nation/54474-indo-african-ties-can-help-prevent-climate-change.html)

### India to urge airlines to boycott EU carbon scheme

India will urge its airlines to boycott the European Union's carbon charge scheme, raising the prospect of a global trade war over a law requiring flights in and out of Europe to pay for their greenhouse gas emissions.

[http://articles.economictimes.indiatimes.com/2012-04-27/news/31424244\\_1\\_isaac-valero-ladron-indian-airlines-emissions-trading-scheme](http://articles.economictimes.indiatimes.com/2012-04-27/news/31424244_1_isaac-valero-ladron-indian-airlines-emissions-trading-scheme)

### Everest climber raises awareness of climate change

[www.iol.co.za/dailynews/news/everest-climber-raises-awareness-of-climate-change-1.1284079](http://www.iol.co.za/dailynews/news/everest-climber-raises-awareness-of-climate-change-1.1284079)

### South Asian farmers helped to share "climate smart" knowledge

A new initiative to spread information on adapting to climate change across South Asia will encourage farmers, scientists and policy makers to share effective ways of dealing with the impacts of global warming.

[www.in.reuters.com/article/2012/04/25/asia-farmers-global-warming-idINDEE83O08W20120425](http://www.in.reuters.com/article/2012/04/25/asia-farmers-global-warming-idINDEE83O08W20120425)

### Indian Institute of Science aims to cut carbon footprint workshop on April 13 and 14 at IISc

Workshop' will focus on devising alternative methodologies in controlling greenhouse gas (GHG) emissions and urban planning. And interestingly the researchers will compare the Bangalore's GHG emissions with that of Xian in China

[www.dnaindia.com/bangalore/report\\_iisc-aims-to-cut-carbon-footprint\\_1673913](http://www.dnaindia.com/bangalore/report_iisc-aims-to-cut-carbon-footprint_1673913)

## NORTH AMERICA

### New EPA rules help communities of color breathe easier

[www.americanprogress.org/issues/2012/04/epa\\_communities\\_of\\_color.html](http://www.americanprogress.org/issues/2012/04/epa_communities_of_color.html)

### California at top in climate-change preparedness

[www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2012/04/05/BA9U1NV5FK.DTL](http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2012/04/05/BA9U1NV5FK.DTL)

### Arbec forest products reduces greenhouse gases

The project installed of a new biomass fed boiler and the conversion of two wood dryers previously fired with butane gas. The new boiler is fed only with tree bark, a residue generated at the sawmill. the project will reduce emissions by a total of approximately 90 000 tons CO<sub>2</sub>.

[www.canadianbiomassmagazine.ca/content/view/3260/57/](http://www.canadianbiomassmagazine.ca/content/view/3260/57/)

# Climate Change & Environment

## EUROPE

### Climate change stressing plants on mountains

The study based on an inventory of flora on 66 mountains between northern Europe and the Mediterranean. increasing number of plant species was found only on mountains in northern and central Europe. In nearly all mountainous regions of the Mediterranean, the number of plant species was either stagnant or declining.

[www.timesofmalta.com/articles/view/20120423/environment/Climate-change-stressing-plants-on-mountains.416677](http://www.timesofmalta.com/articles/view/20120423/environment/Climate-change-stressing-plants-on-mountains.416677)

## OTHER COUNTRIES

### Climate change is reducing Arctic Ocean biodiversity

As per study shows that climate change is resulting in the increased distribution through the Arctic food chain of contaminants, such as methylmercury.

[www.montrealgazette.com/technology/Climate+change+reducing+Arctic+Ocean+biodiversity+study/6512407/story.html](http://www.montrealgazette.com/technology/Climate+change+reducing+Arctic+Ocean+biodiversity+study/6512407/story.html)

### Climate change posing multiple challenges for Pakistan

[www.paktribune.com/news/Climate-change-posing-multiple-challenges-for-Pakistan-249265.html](http://www.paktribune.com/news/Climate-change-posing-multiple-challenges-for-Pakistan-249265.html)

*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 | SWM - Solid Waste Management*



# Power Trading: A step towards

- Power saving,
- Continuous supply,
- Sustainable Growth



**Bilateral Trading**



**Trading Through Exchange**



**Green Power**



**Renewable Energy Certificate  
(REC)**

Abellon is a CERC authorized Power Trader and has been providing services to facilitate open access to large (HT) consumers. Abellon facilitates all types of Power trading including Bilateral & through Exchanges (PXIL & IEX). Abellon maintains a pool of buyers and sellers through which Bilateral transactions (Short term, Medium term & Long Term) are conducted from time to time. Abellon also trades green power to cater to the needs of environment conscious consumers.

**Abellon CleanEnergy**

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