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*Dear Readers,*

*Diwali - this most celebrated festival in India, is a time when the whole country wears a festive and colourful look, with new clothes, colourful rangolis, and twinkling diyas in every home. The air resounds with the noise of fire crackers, generating a tremendous amount of pollution in the air, and destroying micro-organisms.*

*As more and more people understand their responsibility towards the environment, Diwali too is going green and eco-friendly, with use of organically made diyas and rangolis, and many people refraining from burning firecrackers.*

*Diwali is also the time when we pray for wealth, and prosperity. Today, as we look for answers to the issues of energy security and global warming facing the world, it is time for us to remember the saying, "In nature, there is no waste," and focus our attention on generating "wealth" from the so-called waste that is generated within our society. This waste (biomass) is emerging as a sustainable solution that can cater to the world's energy demand, nurture and restore the environment, and provide incomes and jobs to rural communities.*

*Wishing all our readers a very Happy Diwali and a prosperous New Year.*

*Thank you*

*Please post your feedback on  
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# Policy Initiatives

## India

### India is committed to low carbon growth strategy in power sector

[www.pib.nic.in/newsite/erelease.aspx?relid=76749](http://www.pib.nic.in/newsite/erelease.aspx?relid=76749)

The Minister has taken policy initiatives for the development of RE and the implementation of energy efficient improvement programmes.

### The state forest department launched an eco-tourism plan at the eco-tourism centres and the forest rest houses in the state

[www.articles.timesofindia.indiatimes.com/2011-10-21/pune/30306259\\_1\\_eco-tourism-bio-tadoba-national-park](http://www.articles.timesofindia.indiatimes.com/2011-10-21/pune/30306259_1_eco-tourism-bio-tadoba-national-park)

### CM of all states urge to take up the issue of Biotechnology Regulatory Authority of India Bill, 2011

[www.articles.timesofindia.indiatimes.com/2011-08-19/pune/29905017\\_1\\_gm-crops-gm-food-biotechnology-regulatory-authority](http://www.articles.timesofindia.indiatimes.com/2011-08-19/pune/29905017_1_gm-crops-gm-food-biotechnology-regulatory-authority)

### India wants joint effort to save Himalayas

[www.hindustantimes.com/India-wants-joint-effort-to-save-Himalayas/Article1-752014.aspx](http://www.hindustantimes.com/India-wants-joint-effort-to-save-Himalayas/Article1-752014.aspx)

*Environment Minister Jayanthi Natarajan appeals that the Himalayan ecosystem was highly vulnerable due to geological reasons.*

### Puducherry Municipal Services Pvt. Ltd augments its operations for a Clean Puducherry

[www.waste-management-world.com/index/from-the-wires/wire-news-display/1515790742.html](http://www.waste-management-world.com/index/from-the-wires/wire-news-display/1515790742.html)

PMSPL launched its operations in the Commune Panchayats of Ariankuppam and Villianur and expanded operations covering all areas under the commune Panchayats and the Municipalities of Puducherry.

### India will engage 100,000 educated youths to execute an ambitious Green India Mission

[www.news.bioscholar.com/2011/10/100000-community-foresters-to-help-green-india.html](http://www.news.bioscholar.com/2011/10/100000-community-foresters-to-help-green-india.html)

GIM aims at enhancing carbon sinks in sustainably managed forests and other Eco-systems, adaptation of vulnerable species and Eco-systems to the changing climate and adaptation of forest-dependent locals in the face of climate variability.

### Climate change adaptation project for rural communities launch in Ahmednagar

[www.thehindubusinessline.com/industry-and-economy/economy/article2561989.ece?ref=wl\\_industry-and-economy](http://www.thehindubusinessline.com/industry-and-economy/economy/article2561989.ece?ref=wl_industry-and-economy)

The project has been launched in cooperation with the Swiss Agency for Development and Cooperation and the National Bank for Agriculture and Rural Development.

## North America

### City commission approves Port St. Joe biopower plant in California

[www.biomassmagazine.com/articles/5844/city-commission-approves-port-st-joe-biomass-power-plant](http://www.biomassmagazine.com/articles/5844/city-commission-approves-port-st-joe-biomass-power-plant)

The 55MW plant will run on 930tons of woody biomass per day.

### Unions call for carbon capture funding in UK

[www.businessgreen.com/bg/news/2117743/unions-carbon-capture-funding](http://www.businessgreen.com/bg/news/2117743/unions-carbon-capture-funding)

## Policy Initiatives

### Wood Pellet Association of Canada and the Quebec Wood Export Bureau's Wood Pellet Group to support and develop wood pellet exports in Eastern Canada

[www.biomassmagazine.com/articles/5839/canadian-partnership-supports-wood-pellet-exports](http://www.biomassmagazine.com/articles/5839/canadian-partnership-supports-wood-pellet-exports)

The agreement allow wood pellet group members to benefit from the Canadian association, which includes monitoring, information collection and support to the development of the Canadian wood pellet industry.

### UK Government renewables commitment to support renewable electricity and bring forward a surge of investment in energy infrastructure

[www.thebioenergysite.com/articles/1062/uk-government-renewables-commitment](http://www.thebioenergysite.com/articles/1062/uk-government-renewables-commitment)

#### US EPA to relax air pollution rules for power plants

[www.energyefficiencynews.com/i/4538/](http://www.energyefficiencynews.com/i/4538/)

*The EPA is proposing to change the rule, which will require around 1000 facilities in 27 states to cut sulphur dioxide by 73% and nitrogen oxide by 54% compared to 2005 levels by 2014.*

### UK Government unveils new Renewables Obligation proposals

[www.english.windchn.com/wfview000326333.html](http://www.english.windchn.com/wfview000326333.html)

Government hopes the adoption of the latest strategy will lead to 70% of this requirement being constructed by 2017.

### New York Government Andrew Cuomo signs legislation into law extending the state's Refundable Clean Heating Fuel Tax Credit for 5 years

[www.biodieselmagazine.com/articles/8106/ny-bioheat-tax-credit-extended-for-five-years](http://www.biodieselmagazine.com/articles/8106/ny-bioheat-tax-credit-extended-for-five-years)

The personal tax credit, allows residential Bioheat users to claim 1cent per gallon for each percent of biodiesel up to a B20 blend.

### Californian regulators expects to finalise the rules for the state's long-awaited emissions trading scheme, for the full launch of the scheme in 2013

[www.businessgreen.com/bg/news/2118470/california-finalise-carbon-trading-plan](http://www.businessgreen.com/bg/news/2118470/california-finalise-carbon-trading-plan)

The scheme will then come into full effect at the start of 2013 and participants will be required to comply with binding emissions caps and purchase additional carbon allowances if they exceed those caps.

### Iowa Renewable Fuels Association urges State Legislators to talk renewable fuels with presidential candidates

[www.biofuelsjournal.com/articles/IRFA\\_Urges\\_State\\_Legislators\\_to\\_Talk\\_Renewable\\_Fuels\\_With\\_Presidential\\_Candidates\\_-115355.html](http://www.biofuelsjournal.com/articles/IRFA_Urges_State_Legislators_to_Talk_Renewable_Fuels_With_Presidential_Candidates_-115355.html)

IRFA urges to stress the importance of renewable fuels and agriculture to the candidates.

### The Scottish Government distribute loans £4mn to 42 locally-owned RE projects that will power 26,000 homes

[www.silobreaker.com/scotland-distributes-4m-for-56mw-of-community-cleantech-schemes-5\\_2264900450706784499](http://www.silobreaker.com/scotland-distributes-4m-for-56mw-of-community-cleantech-schemes-5_2264900450706784499)

### Energy and climate change secretary insists no shift in UK carbon strategy

[www.guardian.co.uk/environment/2011/oct/10/chris-huhne-carbon-budgets?newsfeed=true](http://www.guardian.co.uk/environment/2011/oct/10/chris-huhne-carbon-budgets?newsfeed=true)

### Raising UK speed limit to 80 mph would increase emissions 2% a year

[www.energyefficiencynews.com/policy/i/4541/](http://www.energyefficiencynews.com/policy/i/4541/)

Emissions from road transport are finally starting to reduce as new car fuel efficiency standards.

## Policy Initiatives

### UK Government hints at scaling back of low-carbon technologies

[www.energyefficiencynews.com/fossil-fuels/i/4539/](http://www.energyefficiencynews.com/fossil-fuels/i/4539/)

### Lawrence Berkeley National Laboratory receives DoE Advanced Research Projects Agency-Energy funding for biofuel and energy projects

[www.biofuelsjournal.com/articles/Lawrence\\_Berkeley\\_National\\_Laboratory\\_Receives\\_DOE\\_ARPA\\_E\\_Funding\\_For\\_Renewable\\_Fuel\\_and\\_Energy\\_Projects-115050.html](http://www.biofuelsjournal.com/articles/Lawrence_Berkeley_National_Laboratory_Receives_DOE_ARPA_E_Funding_For_Renewable_Fuel_and_Energy_Projects-115050.html)

## Europe

### Defra launches air quality consultation in face of legal action in Europe

[www.businessgreen.com/bg/news/2116802/defra-launches-air-quality-consultation-legal-action](http://www.businessgreen.com/bg/news/2116802/defra-launches-air-quality-consultation-legal-action)

Under the rules, heavy goods vehicles have to meet stringent pollution standards with those that exceed the targets having to pay £200 a day to enter the zone.

### Scottish Government launches own consultation on proposed changes to the Renewables Obligation scheme

[www.businessgreen.com/bg/news/2119162/scots-follow-westminster-proposed-changes-renewables-subsidies](http://www.businessgreen.com/bg/news/2119162/scots-follow-westminster-proposed-changes-renewables-subsidies)

The Scottish Government is proposing the level of support for marine energy project mirrors the rest of the UK.

### London Mayor urged landlords in the capital to carry out energy efficiency retrofits to green London's housing stock

[www.businessgreen.com/bg/news/2100134/london-lags-home-insulation-league](http://www.businessgreen.com/bg/news/2100134/london-lags-home-insulation-league)

### Carbon trust launches footprint verification service in UK

[www.businessgreen.com/bg/news/2116648/carbon-trust-launches-footprint-verification-service](http://www.businessgreen.com/bg/news/2116648/carbon-trust-launches-footprint-verification-service)

The service follows a two-stage process whereby the Carbon Trust initially checks whether a company has omitted any emissions data from the final footprint, before then offering to correct any omissions ahead of full verification of its calculations.

### European Court rules aviation emissions trading plan

[www.businessgreen.com/bg/news/2115039/european-court-rules-aviation-emissions-trading-plan-legal](http://www.businessgreen.com/bg/news/2115039/european-court-rules-aviation-emissions-trading-plan-legal)

*EU's plans to include all flights into and out of the region in its emissions trading scheme are legal, rejecting the argument put forward by a group of US airlines.*

### Government launches £1mn clean energy skills drive

[www.businessgreen.com/bg/news/2115256/government-launches-gbp1m-clean-energy-skills-drive](http://www.businessgreen.com/bg/news/2115256/government-launches-gbp1m-clean-energy-skills-drive)

Under the scheme, employers, universities and colleges will work together to create 2,000 places on dedicated training courses, tailored to those wanting to move into the renewable sector.

### European Investment Bank outlines plan to sell €300mn EU carbon allowances

[www.businessgreen.com/bg/news/2115067/european-investment-bank-outlines-plan-sell-300-million-eu-carbon-allowances](http://www.businessgreen.com/bg/news/2115067/european-investment-bank-outlines-plan-sell-300-million-eu-carbon-allowances)

The allowances will be delivered in two tranches, the first of €200mn EUAs and the second of €100 mn. The sales are expected to raise billions of euros for investment in a wide range of RE projects.

### Government to invest Scotland for zero-waste carbon innovators

[www.businessgreen.com/bg/news/2114763/scots-launch-funds-zero-waste-carbon-innovators](http://www.businessgreen.com/bg/news/2114763/scots-launch-funds-zero-waste-carbon-innovators)

# Policy Initiatives

## Latin America

### Brazil lobby to push law requiring 20% biodiesel blend

[www.businessweek.com/news/2011-10-11/brazil-lobby-to-push-law-requiring-20-percent-biodiesel-blend.html](http://www.businessweek.com/news/2011-10-11/brazil-lobby-to-push-law-requiring-20-percent-biodiesel-blend.html)

The Parliamentary Front for the Defense of Biodiesel will press the Government to issue a new regulation that will require diesel sold in the nation as of 2020 to be a blend of 80% diesel and 20% biodiesel. Diesel now sold in Brazil contains 5% biodiesel.

### Brazil takes on US biofuel industry

[www.thebioenergysite.com/news/9693/brazil-takes-on-us-biofuel-industry](http://www.thebioenergysite.com/news/9693/brazil-takes-on-us-biofuel-industry)

Brazil, 90% of the country's new cars can run on either gasoline or ethanol, with both or a blend being offered at petrol stations.

## Africa

### Religious bodies charged to pressurise policy makers on climate change in Ghana

[www.ghanabusinessnews.com/2011/10/25/religious-bodies-charged-to-pressurise-policy-makers-on-climate-change/](http://www.ghanabusinessnews.com/2011/10/25/religious-bodies-charged-to-pressurise-policy-makers-on-climate-change/)

The objective of the workshop is to empower participants to become crusaders in fighting against activities that affect the environment

### Emerging Capital signs an agreement with the International Finance Corporation to participate in private equity Africa climate change investment support programme

[www.ecpinvestments.com/news/2859.xml](http://www.ecpinvestments.com/news/2859.xml)

Through the program, the IFC works with private equity fund will manage and provide advisory services in Sub-Saharan and North Africa by identifying resource efficiency.

## Other Countries

### Coalition for E85 urges retention of ethanol tax credit

[www.domesticfuel.com/2011/10/12/coalition-for-e85-urges-retention-of-ethanol-tax-credit/](http://www.domesticfuel.com/2011/10/12/coalition-for-e85-urges-retention-of-ethanol-tax-credit/)

According to the coalition, Flex Fuel vehicle drivers could end up paying up to 38 cents more per gallon for E85.

### DoE finalizing a department circular for require oil companies to buy a certain percentage of its ethanol

[www.bworldonline.com/content.php?section=Economy&title=Ethanol-circular-set-to-be-released&id=39666](http://www.bworldonline.com/content.php?section=Economy&title=Ethanol-circular-set-to-be-released&id=39666)

### Thailand plans to become an oil trading and biofuel hub in Southeast Asia

[www.reuters.com/article/2011/10/06/us-energy-thailand-idUSTRE79526520111006](http://www.reuters.com/article/2011/10/06/us-energy-thailand-idUSTRE79526520111006)

The ministry was drafting a new power development plan, aimed at focusing more on renewable energy and clean coal power plants.

### Australian algae facility passes environmental permitting process

[www.biodieselmagazine.com/articles/8109/australian-algae-facility-passes-environmental-permitting-process](http://www.biodieselmagazine.com/articles/8109/australian-algae-facility-passes-environmental-permitting-process)

The plant will capture CO<sub>2</sub> from the ethanol plant's fermentors for use as a growth medium to feed the enclosed growth systems developed and constructed by algae.

### Australia moves one step closer to introduction of carbon tax

[www.supplychainreview.com.au/news/articleid/76387.aspx](http://www.supplychainreview.com.au/news/articleid/76387.aspx)

*The Government's clean energy legislation has addressed the science and reduced carbon pollution, it will drive investment in clean energy.*

## Business & Markets

### India

#### Delhi Transport Corporation buses to run on biofuel

[www.thebioenergysite.com/news/9693/brazil-takes-on-us-biofuel-industry](http://www.thebioenergysite.com/news/9693/brazil-takes-on-us-biofuel-industry)

Brazil, 90% of the country's new cars can run on either gasoline or ethanol, with both or a blend being offered at petrol stations.

#### Mission NewEnergy awarded world's first Jatropa biofuel ISCC certification

[www.proactiveinvestors.com.au/companies/news/21098/mission-newenergy-awarded-worlds-first-jatropa-biofuel-iscc-certification-21098.html](http://www.proactiveinvestors.com.au/companies/news/21098/mission-newenergy-awarded-worlds-first-jatropa-biofuel-iscc-certification-21098.html)

Biofuels company Mission NewEnergy has become the first commercial scale provider of Jatropa in the world to receive International Sustainability and Carbon Certification for its Jatropa contract farming model.

#### National Thermal Power Corporation forms RE JV with Asian Development Bank

[www.thehindubusinessline.com/companies/article2545719.ecehomepage=true&ref=wl\\_home](http://www.thehindubusinessline.com/companies/article2545719.ecehomepage=true&ref=wl_home)

*Company incorporated to develop RE projects and establish 500MW of biopower generation resources in India.*

#### Standard Chartered Bank picks DHL for carbon neutral courier service in India

[www.analytiqa.com/newsitem.aspx?articleid=10044](http://www.analytiqa.com/newsitem.aspx?articleid=10044)

The fully-audited service enables customers to offset carbon emissions generated by international courier services by reinvesting in certified carbon management programmes.

#### DuPont sees dramatic reduction in carbon footprint

[www.europeanplasticsnews.com/subscriber/newscat2.html?channel=610&id=1318411725](http://www.europeanplasticsnews.com/subscriber/newscat2.html?channel=610&id=1318411725)

DuPont science and innovation to bring new products to the marketplace that improve efficiencies and sustainability throughout the entire value chain.

#### Indian telecom sector shies away from low-carbon model

[www.steelguru.com/indian\\_news/India\\_is\\_committed\\_to\\_low\\_carbon\\_growth\\_strategy\\_in\\_power\\_sector\\_Mr\\_Shinde/231554.html](http://www.steelguru.com/indian_news/India_is_committed_to_low_carbon_growth_strategy_in_power_sector_Mr_Shinde/231554.html)

Bharti Airtel and the Cellular Operators Association of India renege commitment of sustainable emission reduction plan, including a substantial substitution of diesel with renewable alternatives to power their network operations.

### North America

#### Construction of 36MW biopower plant in Meadow Lake, Saskatchewan

[www.biomassmagazine.com/articles/5841/saskatchewan-tribe-to-co-locate-biomass-power-and-pellet-plants](http://www.biomassmagazine.com/articles/5841/saskatchewan-tribe-to-co-locate-biomass-power-and-pellet-plants)

#### Navy Exchange Service Command partners with Protec Fuel to provide 85% more ethanol fuel to flex fuel vehicle drivers in Pensacola, Florida

[www.domesticfuel.com/2011/10/07/navy-exchange-offers-e85-to-pensacola-drivers/](http://www.domesticfuel.com/2011/10/07/navy-exchange-offers-e85-to-pensacola-drivers/)

The facility will provide access to E85 fuel for the Navy's fleet of Flex fuel vehicle's as well as the general public.

#### Eco-Energy to manage corn and ethanol for Utica Energy Ethanol plant in Oshkosh, Wisconsin

[www.biofuelsjournal.com/articles/Eco\\_Energy\\_to\\_Manage\\_Corn\\_and\\_Ethanol\\_For\\_Utica\\_Energy\\_Ethanol\\_Plant\\_in\\_Oshkosh\\_WI-115791.html](http://www.biofuelsjournal.com/articles/Eco_Energy_to_Manage_Corn_and_Ethanol_For_Utica_Energy_Ethanol_Plant_in_Oshkosh_WI-115791.html)

## Business & Markets

### US Alabama gulf coast zoo to utilize algae biodiesel

[www.biofuelsjournal.com/articles/Alabama\\_Gulf\\_Coast\\_Zoo\\_to\\_Utilize\\_Algae\\_Biodiesel-114955.html](http://www.biofuelsjournal.com/articles/Alabama_Gulf_Coast_Zoo_to_Utilize_Algae_Biodiesel-114955.html)

US Alabama to convert algae into biodiesel. Biodiesel will be used to fuel vehicles and generators, both for emergency and planned power generation.

### AMERlgreen Energy partners with Lancaster County Career & Technology Center students to build biodiesel chopper in Pennsylvania

[www.biofuelsjournal.com/articles/AMERlgreen\\_Energy\\_Partners\\_With\\_LCCTC\\_Students\\_to\\_Build\\_Biodiesel\\_Chopper-114954.html](http://www.biofuelsjournal.com/articles/AMERlgreen_Energy_Partners_With_LCCTC_Students_to_Build_Biodiesel_Chopper-114954.html)

It runs on B100 made from recycled cooking oil that is refined in a Lancaster County Career & Technology Center-built biorefinery.

### Woodcliff Lake begins biodiesel fuel project in US

[www.northjersey.com/news/132059338\\_Woodcliff\\_Lake\\_begins\\_biodiesel\\_fuel\\_project.html](http://www.northjersey.com/news/132059338_Woodcliff_Lake_begins_biodiesel_fuel_project.html)

Woodcliff Lake starts a biodiesel pilot project, turning waste vegetable oil into biodiesel, to be used by the borough's DPW trucks.

### Philidelphia Energy Cooperative delivers 10mn Gallon of biodiesel blended fuel

[www.biofuelsjournal.com/articles/The\\_Energy\\_Cooperative\\_PA\\_Delivers\\_10\\_Millionth\\_Gallon\\_of\\_Biodiesel\\_Blended\\_Fuel-115690.html](http://www.biofuelsjournal.com/articles/The_Energy_Cooperative_PA_Delivers_10_Millionth_Gallon_of_Biodiesel_Blended_Fuel-115690.html)

The 10mn gallons of biodiesel blends have resulted in the use of nearly 1.5mn gallons of domestically-produced fuel and significant emission reductions for many regulated pollutants.

### US Illinois contemplates permanent R&D tax credit for ethanol, biodiesel

[www.biofuelsdigest.com/bdigest/2011/10/24/illinois-contemplates-permanent-rd-tax-credit-for-ethanol-biodiesel/](http://www.biofuelsdigest.com/bdigest/2011/10/24/illinois-contemplates-permanent-rd-tax-credit-for-ethanol-biodiesel/)

Reducing the costs of establishing limited liability corporations increase the estate tax exemption to \$5mn, and adding both ethanol and biodiesel research and development to a permanently re-enacted Illinois Research & Development tax credit.

### Minnesota Municipal Power Agency to build biomass plant in the town of Le Sueur, Minnesota, US

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4102](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4102)

The \$30mn project would generate 8MW of RE from a variety of feedstocks including sweet corn silage, and waste from potatoes and beans.

### US Navy completes unmanned biofuel flight

[www.biofuels-news.com/industry\\_news.php?item\\_id=4114](http://www.biofuels-news.com/industry_news.php?item_id=4114)

The Unmanned Aircraft Systems Test Directorate piloted the aircraft, which used a blend of camelina-based fuel and JP-5 aviation fuel.

### Clenergen Corp. changes business model to become world supplier of biomass feedstock

[www.biofuelsjournal.com/articles/Clenergen\\_Corp\\_Changes\\_Business\\_Model\\_to\\_Become\\_World\\_Supplier\\_of\\_Biomass\\_Feedstock\\_-113828.html](http://www.biofuelsjournal.com/articles/Clenergen_Corp_Changes_Business_Model_to_Become_World_Supplier_of_Biomass_Feedstock_-113828.html)

### US Honeywell completes biomass plant for Eastern Illinois University

[www.prnewswire.com/news-releases/honeywell-and-eastern-illinois-university-bring-the-heat-with-biomass-fueled-plant-70613357.html](http://www.prnewswire.com/news-releases/honeywell-and-eastern-illinois-university-bring-the-heat-with-biomass-fueled-plant-70613357.html)

Wood chips used in the biomass gasifiers to heat the campus. The gas has also been used to fire high-efficiency boilers, which results in more complete combustion and lower emissions.

### Canada's FireBox announces \$60mn biomass demonstration facility

[www.renewableenergymagazine.com/renewableenergy/magazine/index/pag/Biomass/colleft/colright/biomass/tip/articulo/pagid/17489/otid/74/](http://www.renewableenergymagazine.com/renewableenergy/magazine/index/pag/Biomass/colleft/colright/biomass/tip/articulo/pagid/17489/otid/74/)

The technology will produce electricity utilizing virtually any type of combustible material as feedstock, but without the need for valuable water.

## Business & Markets

### Dow partners with Solazyme to develop bio based fluids in US

[www.biodieselmagazine.com/articles/8105/dow-partners-with-solazyme-to-develop-biobased-fluids](http://www.biodieselmagazine.com/articles/8105/dow-partners-with-solazyme-to-develop-biobased-fluids)

Through a developmental agreement, the company will work with Solazyme Inc. to develop algal oils for use in bio based Dielectric Insulating Fluids.

### Dominion contracts Enviva to provide biomass fuel to two 50MW power plants in US

[www.power-technology.com/news/newsenviva-to-supply-biomass-fuel-to-dominion-virginia-power](http://www.power-technology.com/news/newsenviva-to-supply-biomass-fuel-to-dominion-virginia-power)

Dominion plans to convert three 63MW coal-burning peaking plants to 50MW continuous power plants using biomass.

### American One World Clean Energy signs MoU with Pulexilite for biofuels and energy production

[www.biofuels-news.com/industry\\_news.php?item\\_id=4177](http://www.biofuels-news.com/industry_news.php?item_id=4177)

The biorefinery will produce 10MW of electricity each day and 10mn gallons of ethanol and 10mn gallons of biodiesel every year.

### Placer County investigates potential for biomass facility in California

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4161](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4161)

The county is working with federal, state and local forestry and fire agencies to look at ways in which the fire risk and pollution in the area could be reduced.

### Neste Oil's NExBTL renewable aviation fuel technology wins top place at Biofuels 2011

[www.yourrenewablenews.com/neste+oil%27s+nexbtl+renewable+aviation+fuel+technology+wins+top+place+at+biofuels+2011\\_69784.html](http://www.yourrenewablenews.com/neste+oil%27s+nexbtl+renewable+aviation+fuel+technology+wins+top+place+at+biofuels+2011_69784.html)

Neste Oil's renewable aviation fuel can be produced very flexibly from a wide range of vegetable oil and waste products, such as waste animal fat generated by the food industry.

### Algenol breaks ground for pilot algae biorefinery in Lee County, Florida

[www.biofuelsjournal.com/articles/Algenol\\_Breaks\\_Ground\\_For\\_Pilot\\_Algae\\_Biorefinery\\_in\\_Lee\\_County\\_FL-115779.html](http://www.biofuelsjournal.com/articles/Algenol_Breaks_Ground_For_Pilot_Algae_Biorefinery_in_Lee_County_FL-115779.html)

The plant will have a target capacity of approximately 100,000 gallons of fuel-grade ethanol per year.

### Construction of a biopower plant in the Canadian province of Saskatchewan at the cost of \$150mn

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4106](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4106)

The plant will generate around 36MW of electricity enough to power 30,000 homes.

### US City commission approves Rentech's biomass plant

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4124](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4124)

*The renewable project will generate 55MW of power from 930 tonnes a day of woody biomass.*

### Biofuel from forests increases Greenhouse Emissions in US

[www.thebioenergysite.com/news/9814/biofuel-from-forests-wll-increase-geenhouse-eissions](http://www.thebioenergysite.com/news/9814/biofuel-from-forests-wll-increase-geenhouse-eissions)

### LG Electronics Joins Carbonfund.org to introduce carbon neutral products in US

[www.carbonfund.org/site/more/media/2174](http://www.carbonfund.org/site/more/media/2174)

LG has completed a life cycle analysis on 6crore products to determine their carbon footprints from raw material extraction and production to use and disposal.

## Business & Markets

### Europe

**World's first biomass exchange launched from Rotterdam, Netherlands, by Energy Exchange in cooperation with the Port of Rotterdam**

[www.biomassmagazine.com/articles/5842/biomass-exchange-launches-in-november](http://www.biomassmagazine.com/articles/5842/biomass-exchange-launches-in-november)

**Green' boiler switch on at Yeovil eco development in UK**

[www.thebioenergysite.com/news/9766/green-boiler-switch-on-at-yeovil-eco-development](http://www.thebioenergysite.com/news/9766/green-boiler-switch-on-at-yeovil-eco-development)

The 150kW boiler uses sustainably sourced waste wood pellets.

**REG Biopower unveils 2MW Leeds North plant to provide back-up power for the UK's National grid**

[www.thebioenergysite.com/news/9764/power-station-opened-running-off-used-cooking-oil](http://www.thebioenergysite.com/news/9764/power-station-opened-running-off-used-cooking-oil)

The new £1.1mn plant will use waste cooking oils from over 400 local authority recycling sites. The fuel will be converted to a patented bioliquid – LF100 – through a 100% natural filtration process completely free of additives.

**Eco Ventures Group is constructing its biodiesel plant, with a capacity of 3.6mn gallons, Florida**

[www.biofuelsandbiomass.energy-business-review.com/news/eco-ventures-group-develops-biodiesel-plant-in-us-181011](http://www.biofuelsandbiomass.energy-business-review.com/news/eco-ventures-group-develops-biodiesel-plant-in-us-181011)

**Leading UK retailer switches forklifts to biodiesel**

[www.biofuelsdigest.com/bdigest/2011/10/06/leading-uk-retailer-switches-forklifts-to-biodiesel/](http://www.biofuelsdigest.com/bdigest/2011/10/06/leading-uk-retailer-switches-forklifts-to-biodiesel/)

Retailer uses waste cooking oil from its in-store restaurants to produce biodiesel to power a Jungheinrich counterbalanced forklift truck.

**UK biodiesel producer to supply B30 to client**

[www.biodieselmagazine.com/articles/8107/uk-biodiesel-producer-to-supply-b30-to-client](http://www.biodieselmagazine.com/articles/8107/uk-biodiesel-producer-to-supply-b30-to-client)

Argent Energy converts used cooking oil and tallow into biodiesel. The firm plans to switch the vehicle fleet to B30.

**Orkey makes agreement with slaughter houses to convert fat into biodiesel**

[www.icelandreview.com/icelandreview/daily\\_news/Akureyri\\_Company\\_to\\_Convert\\_Fat\\_into\\_Biodiesel\\_0\\_382825.news.aspx](http://www.icelandreview.com/icelandreview/daily_news/Akureyri_Company_to_Convert_Fat_into_Biodiesel_0_382825.news.aspx)

The Company will convert the fat into biodiesel, 85 tons of fuel can be produced from 100 tonnes of fat. Orkey has also produced fuel from waste cooking oil, on which one of Akureyri's buses has run, among other vehicles.

**GDF Suez starts up 180MW biomass-fired power plant in Belgium**

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4085](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4085)

The power plant burns wood pellets to generate 180MW of electricity. to power 320,000 households and will reduce CO<sub>2</sub> emissions by 1.2mn tonnes each year.

**Denmark establishes a new lab for testing biomass boilers**

[www.thebioenergysite.com/news/9712/new-lab-for-testing-upcoming-biomass-boilers](http://www.thebioenergysite.com/news/9712/new-lab-for-testing-upcoming-biomass-boilers)

The utility of a straw boiler has increased from 30% to 80%.

**German energy company, RE Bioenergy GmbH, starts operations at modern biogas plant in Hungary at Szarvas**

[www.thebioenergysite.com/news/9702/meat-processing-waste-for-renewable-energy](http://www.thebioenergysite.com/news/9702/meat-processing-waste-for-renewable-energy)

*The plant processes more than 40,000 tonnes of waste from local meat production and a further 53,000 tonnes of waste from the surrounding animal breeding and finishing operations a year.*

## Business & Markets

### Envergent, Green Fuel to build biomass processing plants in Finland

[www.biofuelsandbiomass.energy-business-review.com/news/envergent-green-fuel-to-build-biomass-processing-plants-in-finland-131011](http://www.biofuelsandbiomass.energy-business-review.com/news/envergent-green-fuel-to-build-biomass-processing-plants-in-finland-131011)

The companies will evaluate the installation of new facilities for the conversion of forest residues into liquid biofuel using Envergent's RTP Rapid Thermal Processing technology.

### Cate street capital begins construction on \$275mn biomass plant in US

[www.biofuelsandbiomass.energy-business-review.com/news/eastern-illinois-university-honeywell-unveil-new-biomass-installation-101011](http://www.biofuelsandbiomass.energy-business-review.com/news/eastern-illinois-university-honeywell-unveil-new-biomass-installation-101011)

### Air France join airlines flying on biofuels

[www.thebioenergysite.com/news/9819/air-france-join-airlines-flying-on-biofuels](http://www.thebioenergysite.com/news/9819/air-france-join-airlines-flying-on-biofuels)

The biofuel/jet fuel mix, combined with the use of 'optimised' air traffic management procedures, to continuous descent approach, helps to slash the flight's CO<sub>2</sub> emissions by 50%.

### UK Thomson makes first UK flight on sustainable fuels

[www.thebioenergysite.com/news/9713/thomson-make-first-uk-flight-on-sustainable-fuels](http://www.thebioenergysite.com/news/9713/thomson-make-first-uk-flight-on-sustainable-fuels)

The adoption of sustainable biofuels by airlines will help achieve the Government's carbon budget which commits the UK to reduce its carbon emissions by 50% by 2025.

### RE Generation's Leeds-based bioliquid-powered plant is ready to begin operating under the National Grid contract

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4119](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4119)

REG's new bioliquid plant can generate 2MW of RE bringing REG's STOR capacity up to 8MW, complementing the existing 6MW of capacity at Bentwaters in Suffolk.

### The University of Nottingham to provide £25mn home for Biotechnology and Biological Sciences Research Council Sustainable Bioenergy Centre programme

[www.media-newswire.com/release\\_1160303.html](http://www.media-newswire.com/release_1160303.html)

Sustainable Bioenergy Centre research programmes, set up to develop sustainable bioenergy fuels from industrial and agricultural waste materials.

### UK firm opens carbon neutral data center in Iceland

[www.computing.co.uk/ctg/news/2115638/uk-firm-carbon-neutral-datacentre-iceland](http://www.computing.co.uk/ctg/news/2115638/uk-firm-carbon-neutral-datacentre-iceland)

The center will use Iceland's dual-sourced renewable energy power grid in addition to the free cooling from the Icelandic cold air.

### Sweden keen on working with Indian companies engaged in innovation in sustainable energy

[www.thehindubusinessline.com/industry-and-economy/article2559276.ece](http://www.thehindubusinessline.com/industry-and-economy/article2559276.ece)

## Latin America

### Chemtex and GraalBio to establish 2<sup>nd</sup> generation biofuels and biochemicals project in Brazil

[www.biofuelsjournal.com/articles/Chemtex\\_and\\_GraalBio\\_to\\_Establish\\_Second\\_Generation\\_Biofuels\\_and\\_Biochemicals\\_Project\\_in\\_Brazil-115503.html](http://www.biofuelsjournal.com/articles/Chemtex_and_GraalBio_to_Establish_Second_Generation_Biofuels_and_Biochemicals_Project_in_Brazil-115503.html)

### Amyris & ETH Bioenergia sign agreement to produce Biofene® in Brazil

[www.yourrenewablenews.com/amyris%26+eth+bioenergia+sign+agreement+to+produce+biofene%C2%AE+in+brazil\\_69750.html](http://www.yourrenewablenews.com/amyris%26+eth+bioenergia+sign+agreement+to+produce+biofene%C2%AE+in+brazil_69750.html)

Through the joint venture with ETH, and other agreements in Brazil, Amyris has access to 15 mn tons of sugarcane crush capacity for production.

## Africa

### Ethanol plant plans to produce 120 000 litres of ethanol fuel a day in Zimbabwe

[www.thebioenergysite.com/news/9776/ethanol-plant-to-produce-120000-litres-a-day](http://www.thebioenergysite.com/news/9776/ethanol-plant-to-produce-120000-litres-a-day)

### ECOWAS launches projects to address RE crisis in West Africa

[www.ghanabusinessnews.com/2011/10/25/ecowas-launches-projects-to-address-renewable-energy-crisis-in-west-africa/](http://www.ghanabusinessnews.com/2011/10/25/ecowas-launches-projects-to-address-renewable-energy-crisis-in-west-africa/)

The projects were to build the institutional capacity of State Regional Center for Renewable Energy and Energy Efficiency in the field of energy efficiency in the region.

## Other Countries

### Japan Toyota Motor Corp develops yeast designed to increase ethanol bio fuel yield from cellulose

[www.renewablepowernews.com/archives/2784](http://www.renewablepowernews.com/archives/2784)

Toyota is also financing researches in reducing CO<sub>2</sub> emissions, as well as in renewable fuels for hybrid vehicles.

### Ubon Bio Ethanol Co signs B2.4bn ethanol deal with China

[www.bangkokpost.com/business/economics/262607/ube-signs-b2-4bn-ethanol-deal-with-china](http://www.bangkokpost.com/business/economics/262607/ube-signs-b2-4bn-ethanol-deal-with-china)

The plant will produce 400,000 liters of ethanol per day.

### B5 biodiesel debuts in Kuala Lumpur, at 247 stations

[www.paultan.org/2011/10/06/b5-biodiesel-debuts-in-kuala-lumpur-at-247-stations/](http://www.paultan.org/2011/10/06/b5-biodiesel-debuts-in-kuala-lumpur-at-247-stations/)

Through this, 1.03mn liters of palm-oil biodiesel will be used per month, which will contribute to saving the consumption of nearly 12.4mn liters of fossil-based diesel a year in Kuala Lumpur.

### Farmers expect profit with biofuel development in Philippines

[www.thebioenergysite.com/news/9815/one-world-clean-energy-signs-mou-for-biofuels](http://www.thebioenergysite.com/news/9815/one-world-clean-energy-signs-mou-for-biofuels)

The biorefinery will produce 10MW of electricity each day and 10mn gallons of ethanol and biodiesel each every year.

### FuturaGene and Guangxi Academy of Sciences enter into a development agreement for Sustainable Biofuel Production in China

[www.thebioenergysite.com/news/9734/collaboration-for-sustainable-biofuel-production](http://www.thebioenergysite.com/news/9734/collaboration-for-sustainable-biofuel-production)

The primarily focused on bioenergy research and the development of non-food crops, to develop and optimise second generation biofuel production from woody biomass such as eucalyptus.

### Global biofuels market value to double to \$185bn by 2021

[www.businesswire.com/news/home/20111011005639/en/Global-Biofuels-Market-Double-185-Billion-2021](http://www.businesswire.com/news/home/20111011005639/en/Global-Biofuels-Market-Double-185-Billion-2021)

### Sri Lanka has world's highest tariffs for RE

[www.lankabusinessonline.com/fullstory.php?nid=1635930766](http://www.lankabusinessonline.com/fullstory.php?nid=1635930766)

### Toyota eyes manufacturing facilities for green vehicle parts in China

[www.ecoseed.org/component/resource/article/139-news-briefs-business/11630-toyota-eyes-manufacturing-facilities-for-green-vehicle-parts](http://www.ecoseed.org/component/resource/article/139-news-briefs-business/11630-toyota-eyes-manufacturing-facilities-for-green-vehicle-parts)

The plan will be made through joint ventures with China FAW Group Corporation and Guangzhou Automobile Group.

# Finance & Investments

## India

GE Energy Financial Services-Greenko group to invest \$50mn in clean energy

[www.commodityonline.com/news/India-attracts-more-private-sector-players-in-renewable-energy-42890-3-1.html](http://www.commodityonline.com/news/India-attracts-more-private-sector-players-in-renewable-energy-42890-3-1.html)

## North America

University of Montana researchers receive \$1.1mn biomass grant from Biomass Research and Development Initiative a collaboration between USDA and the US DoE

[www.biomassmagazine.com/articles/5847/um-researchers-receive-1-1-million-biomass-grant](http://www.biomassmagazine.com/articles/5847/um-researchers-receive-1-1-million-biomass-grant)

The researchers would study various aspects of woody biomass feedstocks, technology, and economics, to develop an integrated approach to investigate biomass feedstock production, logistics, conversion, distribution and end-use centered on using advanced conversion technologies at existing forest industry facilities.

Gainesville Renewable Energy Center provides \$500mn fund for biomass project in Florida

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4143](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4143)

DoE to invest for clean coal and carbon capture and storage in US

[www.energyefficiencynews.com/fossil-fuels/i/184/](http://www.energyefficiencynews.com/fossil-fuels/i/184/)

The project could receive DoE investment of \$100mn to \$600mn.

## Europe

Germany's KfW to invest \$130bn in low-carbon in five years

[www.ecoseed.org/component/resource/article/139-news-briefs-business/11575-germany%3Fs-kfw-investing-\\$130-billion-in-low-carbon-in-five-years](http://www.ecoseed.org/component/resource/article/139-news-briefs-business/11575-germany%3Fs-kfw-investing-$130-billion-in-low-carbon-in-five-years)

KfW Bankengruppe will be investing about \$137.2bn to spur RE and energy efficiency projects.

## Other Countries

IEA calls for phase out of \$0.5tn fossil fuel subsidies

[www.energyefficiencynews.com/power-generation/i/4536/](http://www.energyefficiencynews.com/power-generation/i/4536/)

*As per new estimates from the IEA subsidies for fossil fuels rose nearly \$110bn in 2010 to \$409bn.*

## India

The Karnataka State Biofuel Development Board promoting 'Pongamia' apart from neem, 'jathropha' and 'hippe' for production of bio-diesel

[www.deccanherald.com/content/200182/fuelling-green-movement.html](http://www.deccanherald.com/content/200182/fuelling-green-movement.html)

World's first low carbon fuel to be developed in India

[www.tribuneindia.com/2011/20111012/biz.htm#1](http://www.tribuneindia.com/2011/20111012/biz.htm#1)

The "revolutionary fuel production" will enable airlines to dramatically reduce their carbon footprint by reusing gases that would otherwise have been emitted directly into the atmosphere and promote sustainable industrial growth.

## North America

Mutant maize genes increase viability of switch grass for biofuel in North America

[www.physorg.com/news/2011-10-mutant-maize-genes-viability-grass.html](http://www.physorg.com/news/2011-10-mutant-maize-genes-viability-grass.html)

The US Agriculture Department, & BioEnergy Institute have discovered by that inserting the CG1 corn gene into switch grass is possible to triple the amount of starch that makes the conversion into sugars needed for biofuel much easier.

ArborGen, University of Florida produce biofuel from pine trees

[www.ecoseed.org/water-power-blog/other-water-power-technologies/article/67-other-water-power-technologies/11402-arborgen-university-of-florida-produce-biofuel-from-pine-trees](http://www.ecoseed.org/water-power-blog/other-water-power-technologies/article/67-other-water-power-technologies/11402-arborgen-university-of-florida-produce-biofuel-from-pine-trees)

The project is to lend a hand in developing Loblolly pine that can produce 20% more turpene, a natural liquid biofuel isolated from pine trees.

DoE labs find diesel replacement from microbes

[www.ecoseed.org/bioenergy-blog/other-biofuel-technologies/article/63-other-biofuel-technologies/11359-d-o-e-labs-find-diesel-replacement-from-microbes](http://www.ecoseed.org/bioenergy-blog/other-biofuel-technologies/article/63-other-biofuel-technologies/11359-d-o-e-labs-find-diesel-replacement-from-microbes)

*The team engineered strains of two microbes - a bacteria and a yeast - to produce a chemical that can be refined to bisabolane. A compound found in plants and used in fragrances and flavorings, preliminary tests showed that bisabolane's properties could make a cleaner alternative to Number 2 diesel fuel or D2.*

Chromatin Inc. and Constellation Energy partnership to test feasibility of sorghum fuel in California

[www.biomassmagazine.com/articles/5845/partnership-tests-feasibility-of-sorghum-fuel-in-california](http://www.biomassmagazine.com/articles/5845/partnership-tests-feasibility-of-sorghum-fuel-in-california)

The goal is to create a vertically integrated biomass supply chain that can power generators like Constellation's to rely more on renewable fuel sources that recycle greenhouse gases.

UK National Non-Food Crops Centre: Biodiesel to replace fossil heating oils

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4118](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4118)

Non-renewable oils heat more than 1mn homes in the UK. Liquid fuels made from biomass, can be used to replace fossil-based fuels such as kerosene. They can reduce fuel bills and greenhouse gas emissions.

Alter NRG announces successful waste to biofuel testing in North America

[www.yourrenewablenews.com/alter+nrg+announces+successful+waste+to+biofuel+testing\\_69515.html](http://www.yourrenewablenews.com/alter+nrg+announces+successful+waste+to+biofuel+testing_69515.html)

Forest biomass fueling Canada's energy future

[www.thebioenergysite.com/news/9715/forest-biomass-fueling-canadas-energy-future](http://www.thebioenergysite.com/news/9715/forest-biomass-fueling-canadas-energy-future)

The forest industry now generates enough electricity to power Vancouver or the entire Maritime provinces or replace the output of three nuclear reactors.

## R & D - Technology

### University of Illinois liquid catalyst helps turn emissions into fuel in Chicago

[www.news.illinois.edu/news/11/1006photosynthesis\\_PaulKenis.html](http://www.news.illinois.edu/news/11/1006photosynthesis_PaulKenis.html)

The Illinois group used a novel approach involving an ionic liquid to catalyze the reaction, greatly reducing the energy required to drive the process.

### US EPA to relax air pollution rules for power plants

[www.energyefficiencynews.com/power-generation/i/4538/](http://www.energyefficiencynews.com/power-generation/i/4538/)

The EPA's proposal for the Cross State Air Pollution rule would increase pollution credits in 10 states by 1%, leading to 1.3% more emissions.

### Student project turns grease into green energy solutions and green jobs in US

[www.unep.org/NEWSCENTRE/Default.aspx?DocumentID=2653&ArticleID=8872](http://www.unep.org/NEWSCENTRE/Default.aspx?DocumentID=2653&ArticleID=8872)

Waste cooking oil will be converted into biodiesel, The project is bringing an estimated value of US\$60,000 of alternative energy to needy families in the local community.

## Europe

### Iberia and Repsol have flown an Airbus A320 from Madrid to Barcelona on a combination of biofuel and jet fuel

[www.thefuelhandler.com/index.php?option=com\\_content&view=article&id=67&Itemid=60&item\\_id=4115](http://www.thefuelhandler.com/index.php?option=com_content&view=article&id=67&Itemid=60&item_id=4115)

The flight consumed 2,600kg of camelina-derived bio-jet and conventional Jet A-1fuel, which led to a CO<sub>2</sub> saving of 1,500kg.

### Thomson to operate Britain's first biofuel flight

[www.telegraph.co.uk/travel/travelnews/8808790/Thomson-to-operate-Britains-first-biofuel-flight.html](http://www.telegraph.co.uk/travel/travelnews/8808790/Thomson-to-operate-Britains-first-biofuel-flight.html)

The use of biofuels could reduce the aviation industry's CO<sub>2</sub> emissions by up to 80%.

### Port of Antwerp signs deal with Solvay to investigate biomass potential in Europe

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=4168](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=4168)

The proposed plant would generate 200-400MW power for 500,000 and 1mn homes.

### Finland Researchers achieve good results in using using waste and other excess products from industry to develop new and innovative fuels for transport

[www.thebioenergysite.com/news/9782/waste-and-industrial-byproducts-upgraded-to-butanol](http://www.thebioenergysite.com/news/9782/waste-and-industrial-byproducts-upgraded-to-butanol)

Biobutanol can be produced from by-products of the food industry and the pulp and paper industry, which makes it a suitable candidate for replacing petrol as a fuel.

## Other Countries

### FuturaGene and Guangxi develop eucalyptus biofuel in China

[www.thebioenergysite.com/news/9765/futuragene-and-guangxi-develop-eucalyptus-biofuel](http://www.thebioenergysite.com/news/9765/futuragene-and-guangxi-develop-eucalyptus-biofuel)

*GXAS has developed methodologies for biofuel production and optimised industrial processes for the transformation of wood-based raw material into biofuels.*

# Climate Change & Environment

## India

### ISRO launches Megha-Tropiques satellite to study monsoon

[www.ndtv.com/article/india/isro-launches-megha-tropiques-satellite-to-study-monsoon-140409](http://www.ndtv.com/article/india/isro-launches-megha-tropiques-satellite-to-study-monsoon-140409)

The satellite will provide scientific data on contribution of the water cycle to the tropical atmosphere with information on condensed water in clouds, water vapor in the atmosphere, precipitation and evaporation.

### A Climate change conclave in Hyderabad

[www.ibnlive.in.com/news/world-meet-on-climate-change-in-hyderabad/191071-60-121.html](http://www.ibnlive.in.com/news/world-meet-on-climate-change-in-hyderabad/191071-60-121.html)

It will help raise awareness on alternative energy resources and improve existing energy policies in the country.

## Europe

### US Green Bridge set to enter renewable market with Team Energy purchase

[www.ngvglobal.com/green-bridge-enters-us-renewable-energy-market-1013](http://www.ngvglobal.com/green-bridge-enters-us-renewable-energy-market-1013)

The management won the bid with, Florida to develop a landfill gas collection system on the landfill located within the city limits.

## Africa

### Climate change significantly threatens Africa's economic growth

<http://www.ghanabusinessnews.com/2011/10/24/climate-change-significantly-threatens-africas-economic-growth-prof-nnadozie/>

According to Prof. Nnadozie, Africa must adopt a green economy strategy which promotes sustainable development, uses less carbon and more RE.

## Other Countries

### Mobile applications cut five mega tonnes of agricultural emissions

[www.businessgreen.com/bg/news/2115904/mobile-apps-cut-mega-tonnes-agricultural-emissions](http://www.businessgreen.com/bg/news/2115904/mobile-apps-cut-mega-tonnes-agricultural-emissions)

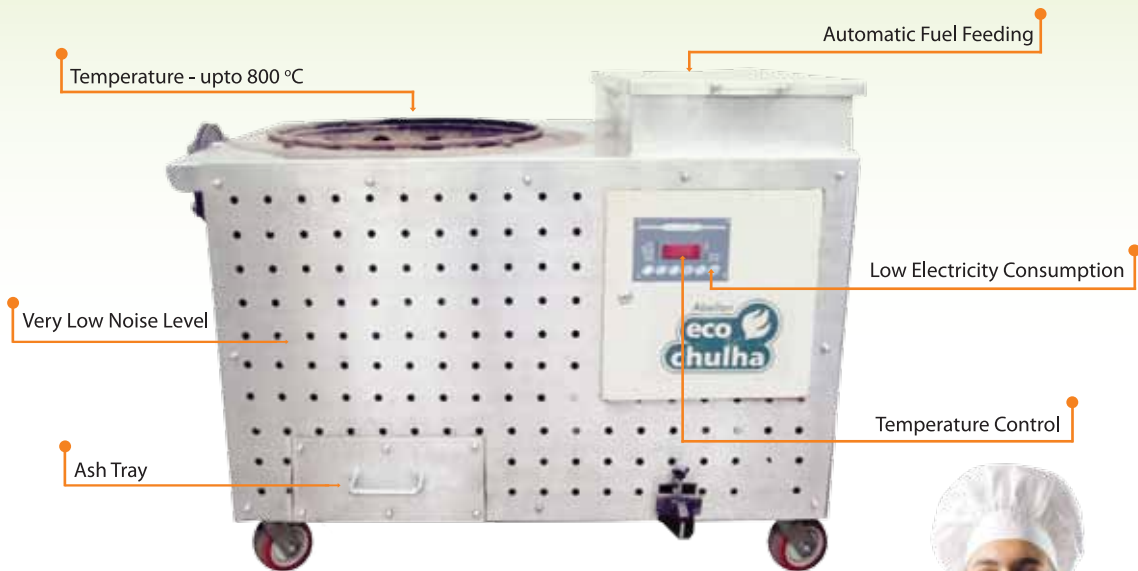
The emergence of smartphone applications capable of tracking goods through the supply chain and providing farmers with up-to-date market price information could help increase incomes by an average of 11% per farmer, or a total of \$138bn by 2020.

### 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

# “CONVENIENT, SAFE & COST EFFECTIVE”

Eco-Chulha is a community cooking stove, uniquely designed for large scale cooking applications using clean, economical and eco-friendly fuel. It is an energy efficient appliance that is easy to use and safe . A perfect solution for heavy duty continuous cooking.



## Eco-Shakti - Fuel for Eco-Chulha



*Eco-Chulha runs on Eco-Shakti, a carbon neutral, eco friendly fuel made from wood residue. It is a clean, economical and easy to use.*

*Available In 20kg Packaging at the Nearest Distributor*

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