



No **Green**  
No Life

Know Green  
Know **Life**

**World Environment Day Special**

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704-Shitiratna, Panchwati, Ellisbridge  
Ahmedabad - 380006, India.  
Tel : +91 79 66309332 Fax : +91 79 6630 9334  
W : [www.bioenergyindia.org](http://www.bioenergyindia.org)  
E : [info@bioenergyindia.org](mailto:info@bioenergyindia.org)

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**Abellon CleanEnergy**  
W : [www.abelloncleanenergy.com](http://www.abelloncleanenergy.com)  
E : [abellon@abelloncleanenergy.com](mailto:abellon@abelloncleanenergy.com)



Dear Readers,

Many of us celebrated World Environment Day in our own ways, on 5th June 2011. We took pledges, planted trees, saved electricity, walked or cycled, contributed in whatever small way we could, to show our care and concern for our planet. BECI salutes each small effort made because, as someone has rightly said, a long journey begins with a single step, and many of us chose to take that single step to making a difference.

The UN theme for 2011 is Forests: Nature at your service . Forests not only help in reducing the impact of CO2 emissions but also maintains biodiversity and, thus, save various forms of life. It is significant that India has been declared as the global host country for 2011. Forests constitute more than 20% of India's geographical area and are depleting at a very rapid rate. With a 1.2 billion population, the socioeconomic pressure on forests is tremendous. It is imperative for us to take decisive and speedy steps towards saving these "lungs" of our country.

The Indian government is working hard to towards solutions . India has instituted a tree planting system to combat land degradation and desertification, including windbreaks and shelterbeds to protect agricultural lands. In an endeavour to conserve its critical ecosystem, India has also successfully introduced projects that track the health of the nation's plants, animals, water and other natural resources .

A lot is being done, but it is still not enough. What is needed is a peoples' movement towards a Green and Sustainable world. And we are the people who can make it happen. Are you ready?

Best wishes,

Please post your feedback on  
Bio-Energy Times @  
<http://www.bioenergyindia.org/frmsendnewsfeedback.aspx>

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# Policy Initiatives

## India

### Punjab to produce 1100MW power from biomass, micro-hydro and solar energy

[www.igovernment.in/site/punjab-plans-1100-mw-renewable-sources](http://www.igovernment.in/site/punjab-plans-1100-mw-renewable-sources)

### UP to cultivate jatropha for bio-fuel

[www.business-standard.com/india/news/up-to-cultivate-jatropha-for-bio-fuel/437148/](http://www.business-standard.com/india/news/up-to-cultivate-jatropha-for-bio-fuel/437148/)

The Uttar Pradesh Government is setting up a jatropha nursery spread over 1,000 hectares in Bahraich district to cultivate seeds for plantations to extract bio-diesel.

### 16MW Timarpur Okhla Municipal SWM plant

[www.dnaindia.com/india/report\\_indias-first-waste-to-energy-plant-generates-heat\\_1546448](http://www.dnaindia.com/india/report_indias-first-waste-to-energy-plant-generates-heat_1546448)

The plant will process about 2,050 tonnes of solid waste to produce power.

### India's RE plans require \$34bn investment by 2017

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/solar/india%E2%80%99s-renewable-energy-plans-require-34bn-investment-by-2017.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/solar/india%E2%80%99s-renewable-energy-plans-require-34bn-investment-by-2017.html)

### IFC plans to invest in RE companies of Gujarat and Rajasthan

[www.business-standard.com/india/news/ifc-eyes-funding-to-green-projects-in-gujarat/420447/](http://www.business-standard.com/india/news/ifc-eyes-funding-to-green-projects-in-gujarat/420447/)

### India grants USD 1.25 lakh to support Global Framework for Climate Services

[www.moneycontrol.com/news/economy/india-pledges-usd-125-lakh-for-gfcs\\_544019.html](http://www.moneycontrol.com/news/economy/india-pledges-usd-125-lakh-for-gfcs_544019.html)

*The grant will help to create global network of experts for improving projections on climate change and its impact on various socio-economic sectors.*

### ADB to invest USD 60mn in VC funds to address climate change in India and China

[www.articles.economicstimes.indiatimes.com/2011-05-23/news/29574169\\_1\\_climate-change-bali-action-plan-greenhouse-gas-emission-reduction](http://www.articles.economicstimes.indiatimes.com/2011-05-23/news/29574169_1_climate-change-bali-action-plan-greenhouse-gas-emission-reduction)

### India and US invest \$50mn to promote research in clean energy technology

[www.af.reuters.com/article/energyOilNews/idAFL4E7G11BU20110518](http://www.af.reuters.com/article/energyOilNews/idAFL4E7G11BU20110518)

## North America

### CEC grants \$2mn to UC San Diego University

[www.nctimes.com/business/article\\_cc863409-da1a-5f10-b39a-645a9ad959a8.html](http://www.nctimes.com/business/article_cc863409-da1a-5f10-b39a-645a9ad959a8.html)

The grant will support research on biofuel.

### Wake Forest University receives \$145k grant for biodiesel project from Biofuels Center of North Carolina

[www2.journalnow.com/business/2011/may/03/wsbiz01-wake-forest-gets-145k-grant-for-bio-ar-998918/](http://www2.journalnow.com/business/2011/may/03/wsbiz01-wake-forest-gets-145k-grant-for-bio-ar-998918/)

### Hawaii bio-fuel company receives \$5.5mn grant for biofuel feedstock

[www.dairyherd.com/dairy-news/Hawaii-bio-fuel-company-to-receive-55M-grant--121317674.html?ref=674](http://www.dairyherd.com/dairy-news/Hawaii-bio-fuel-company-to-receive-55M-grant--121317674.html?ref=674)

## Policy Initiatives

### USDA establishes 50,000 acres for Biofuels Crops in Missouri, Kansas

[www.sustainablebusiness.com/index.cfm/go/news.display/id/22358](http://www.sustainablebusiness.com/index.cfm/go/news.display/id/22358)

#### Canada-Michigan solid waste synergy

[www.americanrecycler.com/0511/955canada.shtml](http://www.americanrecycler.com/0511/955canada.shtml)

Canada exports approximately 4mn tons of MSW to the US each year. The tipping fees in Michigan are extremely low as compared to ontario. Typical fees for landfill contracts in Michigan are on the order of \$15 per ton, not including transportation costs while that in city of london, ontario is Can\$150 per metric ton. The discrepancies in prices between dumping in Ontario and Michigan have to do with the environmental regulations which are so considerable on the Canadian side that it makes the costs of land filling extremely prohibitive.

### DoE grants \$6mn to Metabolix

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/cleantech-company-metabolix-secures-6m-federal-grant.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/cleantech-company-metabolix-secures-6m-federal-grant.html)

The grant will help the company to develop clean solutions for plastics, chemicals and energy.

## Europe

### France Government raises biopower tariffs by 20%

[www.bloomberg.com/news/2011-05-23/france-raises-biogas-power-tariffs-by-20-in-bid-to-increase-production.html](http://www.bloomberg.com/news/2011-05-23/france-raises-biogas-power-tariffs-by-20-in-bid-to-increase-production.html)

### Veidekke to build biogas plant in Nes Municipality

[www.reuters.com/article/2011/05/11/idUS65374+11-May-2011+HUG20110511](http://www.reuters.com/article/2011/05/11/idUS65374+11-May-2011+HUG20110511)

The plant will process 50,000 tons of food waste annually - sufficient biogas to operate around 135 buses. In addition to this, the plant will also produce 27,000 tons of organic fertilizer.

### UK banks set aside £50mn for green energy investment

[www.investmentinternational.com/news/latest/uk-banks-set-aside-50-million-for-green-energy-investmen-4599.html](http://www.investmentinternational.com/news/latest/uk-banks-set-aside-50-million-for-green-energy-investmen-4599.html)

### Singapore and UK sign agreement for climate change research

[www.eco-business.com/features/singapore-and-uk-to-join-forces-on-asian-climate-change-research/](http://www.eco-business.com/features/singapore-and-uk-to-join-forces-on-asian-climate-change-research/)

Under this agreement, Singapore and UK will jointly develop climate models and conduct research on the tropical climate and weather systems that affect Singapore and its neighbours.

Britain needs to invest around \$324bn by 2020 in greener technologies to reduce GHG emissions by 34% below 1990 levels and generate 15% of RE

[www.af.reuters.com/article/energyOilNews/idAFLDE74M14F20110523years](http://www.af.reuters.com/article/energyOilNews/idAFLDE74M14F20110523years).

## Africa

### Construction of 19MW WTE plant at Johannesburg

[www.ae-africa.com/read\\_article.php?NID=2985](http://www.ae-africa.com/read_article.php?NID=2985)

The plant will help Johannesburg to earn carbon credits through the UN's CDM process.

# Policy Initiatives

## Other Countries

### Seoul and Jakarta to invest US\$92mn in biopower project in Southeast Asian country

[www.english.yonhapnews.co.kr/national/2011/05/12/68/0302000000AEN20110512003600315F.HTML](http://www.english.yonhapnews.co.kr/national/2011/05/12/68/0302000000AEN20110512003600315F.HTML)

### Qatar to recycle 38% of solid waste

[www.gulf-times.com/site/topics/article.asp?cu\\_no=2&item\\_no=436586&version=1&template\\_id=36&parent\\_id=16](http://www.gulf-times.com/site/topics/article.asp?cu_no=2&item_no=436586&version=1&template_id=36&parent_id=16)

### China seeks South Africa cooperation on clean energy

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/china-seeks-south-africa-cooperation-on-clean-energy.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/china-seeks-south-africa-cooperation-on-clean-energy.html)

### A trilateral cooperation on green energy

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/japan-to-boost-trilateral-cooperation-on-green-energy.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/japan-to-boost-trilateral-cooperation-on-green-energy.html)

China, Japan and Korea will instill a trilateral investment framework for cooperation in rebuilding the country's economy, research on sustainable growth including RE and energy efficiency imminently. Under this co-operation they will promote policies and programmes to advance RE technology and energy efficiency through existing international frameworks.

### Israeli and Senegalese Governments create green house model supported by RE technology in Dakar

[www.ae-africa.com/read\\_article.php?NID=2970](http://www.ae-africa.com/read_article.php?NID=2970)

### China targets 185GW from non-conventional sources by 2015

[www.eetindia.co.in/login.do?fromWhere=/ART\\_8800643599\\_1800007\\_NT\\_c39dbb71.HTM](http://www.eetindia.co.in/login.do?fromWhere=/ART_8800643599_1800007_NT_c39dbb71.HTM)

## India

### TransGlobal Assets and Helios Inc. to purchase 1MW biomass waste system

[www.marketwire.com/press-release/transglobal-assets-and-helios-receive-lois-to-purchase-biomass-systems-for-12m-usd-otcqb-tmsh-1508697.htm](http://www.marketwire.com/press-release/transglobal-assets-and-helios-receive-lois-to-purchase-biomass-systems-for-12m-usd-otcqb-tmsh-1508697.htm)

### Construction of SWM facility in Panaji

[www.articles.timesofindia.indiatimes.com/2011-05-07/goa/29519680\\_1\\_taleigao-plateau-ccp-yatin-parekh](http://www.articles.timesofindia.indiatimes.com/2011-05-07/goa/29519680_1_taleigao-plateau-ccp-yatin-parekh)

### India to generate 17,000MW renewable power by 2017

[www.uk.reuters.com/article/2011/05/05/india-renewable-idUKL3E7G51BI20110505](http://www.uk.reuters.com/article/2011/05/05/india-renewable-idUKL3E7G51BI20110505)

### Oil India Ltd. and Energy and Resources Institute to research RE sources

[www.ogj.com/index/article-display/5244031582/articles/oil-gas-journal/general-interest-2/20100/may-2011/oil-india\\_ltd\\_\\_expands.html](http://www.ogj.com/index/article-display/5244031582/articles/oil-gas-journal/general-interest-2/20100/may-2011/oil-india_ltd__expands.html)

## North America

### Westervelt Co. to construct pellet plant near Alabama

[www.biomassmagazine.com/articles/5511/westervelt-developing-alabama-pellet-plant](http://www.biomassmagazine.com/articles/5511/westervelt-developing-alabama-pellet-plant)

The plant will produce 500,000 metric tons per year of pellets using yellow pine along with sawmill residuals.

### Enviva to increase production capacity of wood-pellet manufacturing facility in North Carolina

[www.biofuelsandbiomass.energy-business-review.com/news/enviva-to-expand-capacity-of-biomass-supply-plant-in-north-carolina-020511](http://www.biofuelsandbiomass.energy-business-review.com/news/enviva-to-expand-capacity-of-biomass-supply-plant-in-north-carolina-020511)

The plant expansion will increase the production capacity by 50,000 metric tons annually. Enviva also plans to develop a wood pellet plant in the mid-Atlantic region.

### Construction of \$200mn biomass co-gen facility in Nova Scotia

[www.pulpandpapercanada.com/issues/story.aspx?aid=1000422345](http://www.pulpandpapercanada.com/issues/story.aspx?aid=1000422345)

The plant will use wood waste to produce electricity.

### £220,000 of electronics recycled on eCycle Day at South Carolina

[www.wltx.com/news/article/134907/2/220000-Pounds-of-Electronics-Recycled-on-eCycle-Day](http://www.wltx.com/news/article/134907/2/220000-Pounds-of-Electronics-Recycled-on-eCycle-Day)

### Rentech to build \$500mn bio-jet fuel plant in White River, Ontario

[www.bioenergy-news.com/index.php?Industry-News?item\\_id=3553](http://www.bioenergy-news.com/index.php?Industry-News?item_id=3553)

### Seneca Sawmill develops 19MW biopower plant in Eugene

[www.kmtr.com/news/local/story/Seneca-Sawmill-celebrates-Eugene-biomass-plant/XFTJb0nvo0uEmckrB5XNpg.csp](http://www.kmtr.com/news/local/story/Seneca-Sawmill-celebrates-Eugene-biomass-plant/XFTJb0nvo0uEmckrB5XNpg.csp)

### ZeaChem to supply hybrid poplar woody biomass to Oregon cellulosic biorefinery

[www.brighterenergy.org/22763/news/bioenergy/zeachem-signs-biomass-supply-deal-for-oregon-cellulosic-biorefinery/](http://www.brighterenergy.org/22763/news/bioenergy/zeachem-signs-biomass-supply-deal-for-oregon-cellulosic-biorefinery/)

### Progress Energy and Trans World Energy LLC. sign an agreement

[www.businessweek.com/ap/financialnews/D9NDTQJG0.htm](http://www.businessweek.com/ap/financialnews/D9NDTQJG0.htm)

Under this contract Trans World will generate 40MW biopower in Citrus County for Progress Energy. The plant will also save up to \$61.6mn cost of energy production.

## Business & Markets

### Construction of biogas plant in Massachusetts

[www.bioenergy-news.com/index.php?/Industry-News?item\\_id=3640](http://www.bioenergy-news.com/index.php?/Industry-News?item_id=3640)

The plant will generate 2,280MWh of heat and electricity.

## Europe

### Construction of \$175mn wood pellet plant in Georgia

[www.brighterenergy.org/22729/news/bioenergy/worlds-largest-wood-pellet-plant-opens-in-georgia/](http://www.brighterenergy.org/22729/news/bioenergy/worlds-largest-wood-pellet-plant-opens-in-georgia/)

### Verdo Renewables to construct \$17mn wood pellet plant in UK

[www.biomagazine.com/articles/5515/verdo-renewables-opens-second-uk-pellet-plant](http://www.biomagazine.com/articles/5515/verdo-renewables-opens-second-uk-pellet-plant)

The plant will produce 55,000 metric tons of pellets annually.

### Opcon Bioenergy to supply CHP plant to Falbygden Energi

[www.azocleantech.com/news.aspx?newsID=15004](http://www.azocleantech.com/news.aspx?newsID=15004)

The plant will generate 2.4MW biopower and 12MW of heat.

### RWE to convert Tilbury power station into biomass plant

[www.guardian.co.uk/business/2011/may/30/rwe-tilbury-power-station-biomass](http://www.guardian.co.uk/business/2011/may/30/rwe-tilbury-power-station-biomass)

### Hungrana to spend HUF 3bn on biogas furnace

[www.bbjonline.hu/business/hungrana-to-spend-huf-3-bln-on-biogas-furnace\\_57517](http://www.bbjonline.hu/business/hungrana-to-spend-huf-3-bln-on-biogas-furnace_57517)

### Cereplast to establish £ 220mn Italy-based bioplastic manufacturing plant

[www.4-traders.com/news/Cereplast-to-Establish-Italy-Based-Bioplastic-Manufacturing-Plant--13614359/](http://www.4-traders.com/news/Cereplast-to-Establish-Italy-Based-Bioplastic-Manufacturing-Plant--13614359/)

### FCC to construct €322mn waste management plant

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/fcc-wins-e322m-waste-management-project-deal.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/fcc-wins-e322m-waste-management-project-deal.html)

The plant will produce 203GWh power per year, enough to power 68,000 households.

### Construction of CHP plant using whisky by-product in Scotland

[www.guttridge.co.uk/news/2011/04/28/whisky-by-product-set-to-power-chp-plant/](http://www.guttridge.co.uk/news/2011/04/28/whisky-by-product-set-to-power-chp-plant/)

The plant will also produce animal feed as a by-product. This combined process will save 46,000 tonnes of CO<sub>2</sub> emissions annually.

### KEPCO and DONG sign MoU for green technology

[www.utilityproducts.com/news/2011/05/14/19271731/kepco-and-dong-sign-mou-for-collaboration-in-green-technologies.html](http://www.utilityproducts.com/news/2011/05/14/19271731/kepco-and-dong-sign-mou-for-collaboration-in-green-technologies.html)

The technologies include smart grid, wind power and bioenergy technology.

### UK colocation firm Sentry 42 to open green data center

[www.thewhir.com/web-hosting-news/050611\\_UK\\_Colocation\\_Firm\\_Sentry42\\_to\\_Open\\_New\\_Green\\_Data\\_Center\\_Next\\_Week](http://www.thewhir.com/web-hosting-news/050611_UK_Colocation_Firm_Sentry42_to_Open_New_Green_Data_Center_Next_Week)

The new data center has free cooling for 95% of the year, a system that reuses excess heat generated by the equipment to heat on-site offices, and LED lighting. The combined impact of these technologies will cut power consumption by 60%.

### Helius Energy to construct CHP plant using distillery by-products

[www.nce.co.uk/news/energy/helius-in-eco-energy-plant-plan/8615191.article](http://www.nce.co.uk/news/energy/helius-in-eco-energy-plant-plan/8615191.article)

## Business & Markets

### Africa

#### Bio Energy Resources Ltd. to build \$18mn biofuel plant using Jatropha

[www.businessweek.com/news/2011-05-19/bio-energy-of-malawi-to-build-jatropha-plant-daily-times-says.html](http://www.businessweek.com/news/2011-05-19/bio-energy-of-malawi-to-build-jatropha-plant-daily-times-says.html)

The company has also signed deal with 30,000 farmers to grow jatropha around the Southern African nation.

### Other Countries

#### Eco-Frontier Co. and PT Perkebunan Nusantara to build \$92mn biopower plant

[www.bloomberg.com/news/2011-05-13/south-korea-agrees-92-million-biomass-power-projects-deal-with-indonesia.html](http://www.bloomberg.com/news/2011-05-13/south-korea-agrees-92-million-biomass-power-projects-deal-with-indonesia.html)

#### Construction of 10MW biopower plant at Kangaroo Island, South Australia

[www.abc.net.au/rural/news/content/201105/s3220308.htm](http://www.abc.net.au/rural/news/content/201105/s3220308.htm)

#### PhytoFuel to plant 30,000 kulpa across Northern Australia by 2016

[www.abc.net.au/rural/news/content/201105/s3227328.htm](http://www.abc.net.au/rural/news/content/201105/s3227328.htm)

# Finance & Investments

## North America

### WM invests in food waste recycling company Peninsula Compost

[www.zacks.com/stock/news/52641/WM+Invests+in+Food+Waste+Recycling+](http://www.zacks.com/stock/news/52641/WM+Invests+in+Food+Waste+Recycling+)

### SAM Private Equity invests \$6mn in Harvest Power

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/sam-private-equity-invests-6m-in-harvest-power.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/sam-private-equity-invests-6m-in-harvest-power.html)

### Biodegradable plastics developer BioAmber raises \$45m

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/biodegradable-plastics-developer-bioamber-raises-45m.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/biodegradable-plastics-developer-bioamber-raises-45m.html)

### Just Energy invests \$40mn in Green Energy projects in Canada and US

[www.pnewsire.com/news-releases/just-energy-hits-40-million-in-green-energy-investment-121486259.html](http://www.pnewsire.com/news-releases/just-energy-hits-40-million-in-green-energy-investment-121486259.html)

## Europe

### Environmental Technologies Fund invests £4.5mn in 4energy

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/environmental-technologies-fund-injects-4-5m-in-energy-efficiency-start-up-4energy.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/environmental-technologies-fund-injects-4-5m-in-energy-efficiency-start-up-4energy.html)

### Enel Green Power to spend €6.4bn in RE by 2015

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/enel-green-power-to-spend-e6-4bn-on-renewable-energy-by-2015.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/enel-green-power-to-spend-e6-4bn-on-renewable-energy-by-2015.html)

*The investment would expand RE capacity to 10.4GW.*

### NatWest and Royal Bank of Scotland invests £50mn RE sector

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/banks-allocate-50m-for-renewable-energy-sector.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/banks-allocate-50m-for-renewable-energy-sector.html)

## Africa

### Morocco to spend \$11bn for RE

[www.ae-africa.com/read\\_article.php NID=2975&PHPSESSID=b511d112a496fb0ad2b51537f9538ce6](http://www.ae-africa.com/read_article.php NID=2975&PHPSESSID=b511d112a496fb0ad2b51537f9538ce6)

## Other Countries

### Aloe Private Equity plans to invest \$501mn in Asian RE ventures

[www.bloomberg.com/news/2011-05-19/aloe-plans-501-million-fund-to-back-renewable-energy-ventures-in-asia.html](http://www.bloomberg.com/news/2011-05-19/aloe-plans-501-million-fund-to-back-renewable-energy-ventures-in-asia.html)

The company would invest in fields such as waste management, recycling, water and energy efficiency.

### Sarona Asset Management invests \$2mn in South Asia Clean Energy Fund

[www.vccircle.com/500/news/sarona-asset-management-puts-2m-in-south-asia-clean-energy-fund](http://www.vccircle.com/500/news/sarona-asset-management-puts-2m-in-south-asia-clean-energy-fund)

The fund will promote the use of efficient, reliable and cleaner forms of energy across three sectors - energy efficiency products and services, renewable energy generation and environmental products and services.

# R & D - Technology

## North America

### Students at Steve Simpson's class produce biodiesel from kitchen oil

[www.pantagraph.com/news/local/education/article\\_a19e6326-8a42-11e0-bfda-001cc4c03286.html](http://www.pantagraph.com/news/local/education/article_a19e6326-8a42-11e0-bfda-001cc4c03286.html)

### Linde, Sapphire Energy partner to turn CO<sub>2</sub> emissions into fuel

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/linde-sapphire-energy-partner-to-turn-carbon-emissions-into-fuel.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/linde-sapphire-energy-partner-to-turn-carbon-emissions-into-fuel.html)

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They will develop a system to transport CO<sub>2</sub> to open pond algae cultivation systems.

## Europe

### Greenergy to produce biodiesel from leftover pie and chips

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/greenergy-to-produce-biodiesel-from-leftover-pie-and-chips.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/greenergy-to-produce-biodiesel-from-leftover-pie-and-chips.html)

### OriginOil, Ennesys produce power using algae

[www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/originoil-ennesys-develop-algae-power-generators-in-france.html](http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/originoil-ennesys-develop-algae-power-generators-in-france.html)

### Installation of biomass boiler at Portishead Open Air Pool, near Bristol

[www.greenbuildingpress.co.uk/article.php?category\\_id=34&article\\_id=849](http://www.greenbuildingpress.co.uk/article.php?category_id=34&article_id=849)

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The boiler would save £6,000 on fuel bills per year as it cuts 80% fossil fuel usage.

## Other Countries

### University of California and Thailand Institute produce fuel from biomass

[www.domesticfuel.com/2011/05/03/thailand-to-use-uc-riverside-biofuel-technology/](http://www.domesticfuel.com/2011/05/03/thailand-to-use-uc-riverside-biofuel-technology/)

# Climate Change & Environment

## India

### Adverse climate hits mango crop in Gujarat

[www.newstrackindia.com/newsdetails/218450](http://www.newstrackindia.com/newsdetails/218450)

According to the mango growers of Navsari, there was 100% flowering but due to climate change and global warming the crop would be between 15-20% only. Farmers also said that there is no possibility of export this year and as the production will be limited, the price of the fruit would also rise.

## North America

### Climate Change's impact on US wind energy

[www.energymatters.com.au/index.php?main\\_page=news\\_article&article\\_id=1490](http://www.energymatters.com.au/index.php?main_page=news_article&article_id=1490)

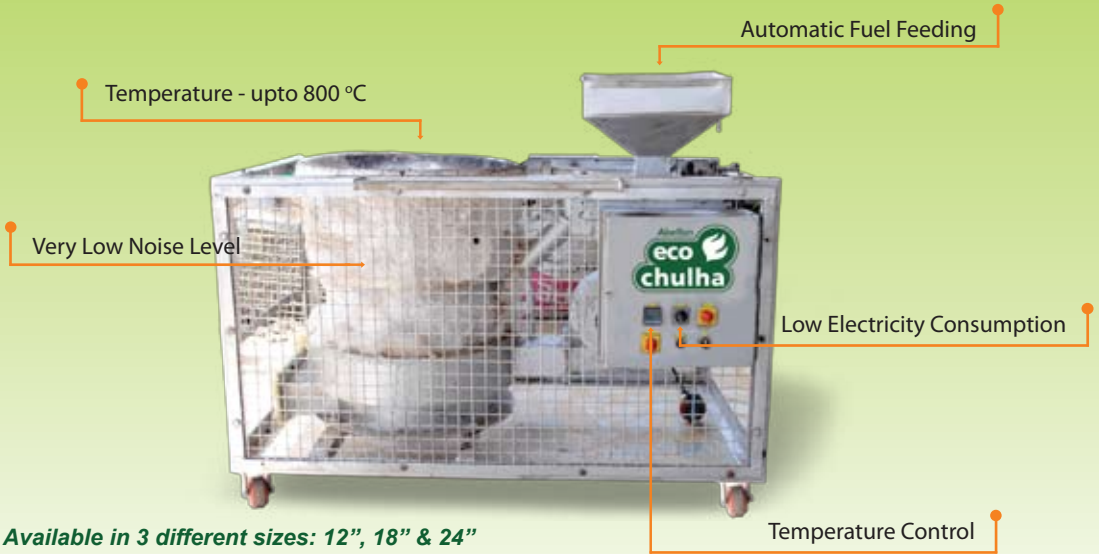
Researchers from Indiana University Bloomington, worked on future wind patterns in America's lower 48 states. Results show the difference in energy density (power in the wind) between 2041-2062 and 1979-2000.

Areas where decreases in wind density are predicted are limited and many of the areas are unlikely to see establishment of wind farms. Areas expected to see continuing high wind density include the Great Lakes, Eastern New Mexico, Southwestern Ohio, Southern Texas and large areas of several states in Mexico.

### 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

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Corporate Headquarters: Sangeeta Complex, Nr. Parimal Crossing, Ellisbridge, Ahmedabad - 380 006, INDIA.  
 Tel.: +91-79-6630 9332 | Fax: +91-79-6630 9334  
 E-mail: [abellon@abelloncleanenergy.com](mailto:abellon@abelloncleanenergy.com) | Web: [www.abelloncleanenergy.com](http://www.abelloncleanenergy.com)