



HIGHLIGHTS

- | | |
|---|----|
| Policy Initiatives | 03 |
| <i>State center set up to study climate change in Himachal Pradesh...</i> | |
| Business & Markets | 05 |
| <i>Construction of Canadian Biofuel's wood pellet and briquette production plant...</i> | |
| Finance & Investments | 07 |
| <i>Global investments in RE reach to \$211bn...</i> | |
| R & D - Technology | 08 |
| <i>Sweet Sorghum is best option for alternative energy in Ghana...</i> | |
| Climate Change & Environment | 09 |
| <i>UK companies target to cut emissions 80% by 2050...</i> | |

Published by

BIO-ENERGY COUNCIL OF INDIA

704-Shitiratna, Panchwati, Ellisbridge

Ahmedabad - 380006, India.

Tel : +91 79 66309332 Fax : +91 79 6630 9334

W : www.bioenergyindia.org

E : info@bioenergyindia.org

Supported by

Abellon CleanEnergy

W : www.abelloncleanenergy.com

E : abellon@abelloncleanenergy.com



Dear Readers,

Two years ago, we at BECI, started our journey of knowledge and information sharing in the form of "Bio Energy Times". Today, this initiative continues with your support and encouragement.

During these two years, we have seen Bio-energy grow in stature from a little known alternative, to one of the most significant and viable forms of clean energy that the world can adopt. All over the world, but especially in emerging nations such as India, Bio-energy can be the catalyst that can bring about a complete transformation, not only through sustainable energy access, but more so due to its potential to address the development needs of the poorest of the poor.

We have done our best to chronicle this journey through the news and information we bring to you every month, on various aspects ranging from climate concerns, to R&D initiatives, funding opportunities, business and market movement, and the policy decisions taken by governments globally, that can help build an environment conducive to the growth and progress of this sector.

Through Bio-energy Times and other initiatives of BECI, we are committed to garnering continued support for the sector and assisting in fully realizing its potential towards the creation of more sustainable and equitable societies globally.

We thank you for making this eventful journey possible. Please continue to send us your inputs and suggestions on further improving the Bio-energy Times.

Thank you

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

Confidentiality & Disclaimer

This is a confidential document intended solely for internal circulation. This document may not be reproduced, cited or otherwise circulated in any form without the express written consent of Abellon CleanEnergy Ltd.

The information contained as a part of this document has been prepared using publicly available sources. We are in no way liable for any factual inaccuracies that may have inadvertently occurred.

Policy Initiatives

India

Orissa Government's emphasis on scientific handling and disposal of biomedical waste management

www.orissadiary.com/CurrentNews.asp?id=28934

India Government provides grants to educational institutions that adopt RE to meet their power requirements

www.thehindu.com/news/cities/Madurai/article2425957.ece

TERI and HUDCO sign MoU for promotion of green buildings and energy conservation in urban sector

www.businesswireindia.com/PressRelease.asp?b2mid=28207

HUDCO MOU with TERI to achieve the establishment of green infrastructure & promote the cause of green building design in the country with multiple benefits to society.

Dr. Farooq Abdullah urges international investor community to invest in indian RE sector

www.power-eng.com/news/2011/09/1504858199/union-new-and-renewable-energy-minister-abdullah-urges-international-investor-community-to-invest-in.html

IMNRE releases guidelines for green large area development

www.steelguru.com/indian_news/Release_of_draft_guidelines_for_green_large_area_development/226078.html

The Guidelines are formulated for developments such as townships, neighborhoods, educational and institutional campuses, special economic zones and medical college hospitals.

India pursuing low carbon growth strategy

www.4-traders.com/NTPC-LIMITED-9059283/news/NTPC-LIMITED-India-is-pursuing-a-low-carbon-growth-strategy-read-more-13816922/

The strategy is being pursued through adoption of clean coal technologies, efficiency improvement of existing power plants higher focus of RE conservation, etc. to reduce CO₂ emission.

India seeks help of nations to sustain Himalayan ecosystem

www.ibnlive.in.com/generalnewsfeed/news/india-seeks-help-of-nations-to-sustain-himalayan-ecosystem/841341.html

The climate sensitive Himalayan ecosystem spreads across the Hindu Kush-Himalayan region that extends 3,500 km over all as part of eight countries from Afghanistan in the west to Myanmar.

State center set up to study climate change in Himachal Pradesh

www.indiaeducationdiary.in/Shownews.asp?newsid=10403

The center would coordinate with different Universities, Research institutions, Government departments, NGOs to pursue theme based specific research on climate change in the Himalayan region & also help generate awareness amongst various stakeholders for undertaking appropriate measures in combating the impact of climate change.

North America

US DoE to invest \$12mn for drop-in bio fuels production

[www.ecoseed.org/bioenergy-blog/other-biofuel-technologies/article/63-other-biofuel-technologies/11084-u-s-d-o-e-to-invest-\\$12-million-for-drop-in-biofuels-production](http://www.ecoseed.org/bioenergy-blog/other-biofuel-technologies/article/63-other-biofuel-technologies/11084-u-s-d-o-e-to-invest-$12-million-for-drop-in-biofuels-production)

Drop-in biofuels serve as direct replacements to existing gasoline, diesel, and jet fuels, without any changes to existing fuel distribution networks or engines. measures in combating the impact of climate change.

Policy Initiatives

US DoE awards \$105mn loan guarantee for biofuel plant

www.platts.com/RSSFeedDetailedNews/RSSFeed/Oil/6256403

This project will help to decrease the dependence on oil, create jobs and aid transition to clean, RE.

USDA awards \$136mn for advanced biofuels

www.biofuelsdigest.com/bdigest/2011/09/28/usda-awards-136m-for-advanced-biofuels/

The projects will address needs across regional supply chains and will complement existing bioenergy efforts across government, academia, and the private sector.

Maine Department of Environmental Protection accepts EU emission standards for pellet boilers

www.biomassmagazine.com/articles/57611/maine-dep-accepts-eu-emission-standards-for-pellet-boilers

More than 35,000 of the boilers, assembled at Maine Energy Systems, used in Europe through pellet burning in lieu of fossil fuels will have a carbon footprint reduction of about 16 tons per year.

U.S. Federal Aviation Administration and Australia's Department of Resources, Energy and Tourism sign MOU

www.biofuelsdigest.com/bdigest/2011/09/19/us-australia-sign-key-aviation-biofuels-acco

Under this MOU they will research & develop clean aviation fuel.

Regulators reduce wind, bio gas subsidies for on-site generators in California

www.nctimes.com/business/article_becf8fc4-1c71-5f62-b3bf-34f9c64279d8.html

The new rules require new generation projects to reduce the net production of global warming-causing gases such as CO₂ in order to be eligible for the subsidy.

US-Israel partnership launches series of cleantech collaborative projects

http://china-newenergy.net/english/shownews.asp?id=1856&news_class=Industry&first=News

The projects will leverage private sector cost-share for a total project value of \$8.46mn

Europe

Italy plans to invest in Latin American biofuels

www.biofuelsdigest.com/bdigest/2011/09/20/italy-looking-to-jumpstart-investment-in-latin-american-biofuels/

European Government launches Doctorate Centre in Offshore Renewable Energy to train new generation of engineering leaders

www.bloomberg.com/news/2011-08-31/un-s-100-billion-climate-change-initiative-seen-to-need-private-funding.html
www.businessgreen.com/bg/news/2105634/renewable-energy-skills-gbp65m-boost

The fund will help to channel \$100bn in climate-change aid annually to developing nations instead of counting mostly on money from cash-strapped industrialized countries.

Germany increased RE source by 15% since 2000

www.electric.co.uk/news/germany-leading-the-way-in-renewable-energy-12342113.html

UK's Energy Technologies Institute launches £3mn carbon capture and storage project

www.energyefficiencynews.com/policy/i/4479/

The project will create a modelling tool-kit that is able to simulate the process from the capture of CO₂ to its transport and storage.

Policy Initiatives

Africa

South Africa DoE issues draft policy to mandate biofuel blending

www.biofuelsdigest.com/bdigest/2011/09/22/south-africa-releases-draft-biofuels-policy-for-comment/

South Africa DoE released draft regulations on mandatory blending of petrol and diesel with biofuels.

Ministry of Environment, Science and Technology plans to introduce RE to fill the country's energy gap in Ghana

www.gbcghana.com/index.php?id=1.358607.1.583126

Kenya group pleads to keep jatropha license

www.biofuelsdigest.com/bdigest/2011/09/29/kenya-group-pleads-to-keep-jatropha-license/

The Tana River County Council states it is happy for the Bedford Biofuel project to be developed on 160,000 hectares with a 45-year lease.

SA's energy minister the Government's aim to roll out one mn solar water heaters by 2014 would help reduce GHG

www.iol.co.za/business/business-news/govt-to-cut-consumers-energy-bills-1.1137349

The plans by SA's department of transport to potentially save 2mn tons of CO₂ equivalent emissions

Tackling climate change requires sustainable energy revolution-United Nations Industrial Development Organization

www.ghanabusinessnews.com/2011/09/22/tackling-climate-change-requires-sustainable-energy-revolution-%e2%80%93-unido/

The meeting of the Ministers urge to work towards improved integrated energy planning and ensuring the design and development of sound energy projects that can alter Africa's energy pathway.

Latin America

I.D.B. aids Colombia to slash CO₂ emissions

www.ecoseed.org/business/carbon-market/article/132-carbon-market/11147-i-d-b-aids-colombia-to-slash-carbon-dioxide-emissions

The project will be partly-financed with a grant from the Global Environment Fund amounting \$2.7mn. The Global Environment Fund provides grants to projects in line with biodiversity and climate change in developing countries.

Canadian Government plans to phase out coal-fired electricity by 2015 in a bid to significantly reduce greenhouse gas emissions

www.steelguru.com/raw_material_news/Canada_shifts_away_from_coal_fired_energy/224513.html

The regulation draft, for all new coal fired power plants to meet emission performance standards. The government plans to slow phase out process, in order to avoid an electricity price shock.

Other Countries

China New Energy signs agreement with UK Green Biologics

www.stockmarketwire.com/article/4219164/CNE-in-collaboration-deal-with-Green-Biologics.html

Under the agreement, CNE and GBL will exploit the advanced fermentation technology in existing bioenergy production facilities in China and other international markets.

Policy Initiatives

Government seeks to encourage investment in local biofuel industry in Fiji

www.biofuelsdigest.com/bdigest/2011/09/14/fiji-aims-to-stimulate-biofuels-investment/

According to Fiji's DoE, the country currently produces 1.5mn liters of biofuel, but needs to increase production to 60mn liters as Fiji's transportation industry requires 300mn liters of fuel per year.

Government grants for 'Greenovative Tourism' in Pattaya

www.pattayamail.com/localnews/pattaya-sustainable-tourism-master-plan-signed-5904?ref=pmci

The plan marks the high-water point in Pattaya's six-year pursuit of government funding to solve its many environmental, infrastructure, crime and tourism woes.

Nepal's reduce 50,000 ton of carbon to get certified by CDM

www.myrepublica.com/portal/index.php?action=news_details&news_id=35777

The CDM is a provision of United Nations Framework Convention on Climate Change, a mechanism under the Kyoto Protocol, that allows rich countries to invest in clean energy projects in developing countries to make up for GHG emission.

China's roads to see 4mn green cars by 2020

www.ecoseed.org/business/asia/article/130-asia/11303-china%3Fs-roads-to-see-4-million-green-cars-by-2020-%3F-market-report

The Government pledge to finance infrastructure and research into electric vehicle technologies. Subsidies for the purchase of battery cars and plug-in hybrids as well as the construction of charging stations and battery recovery networks.

Malaysia mandate to promote sustainable development through the adoption of green technologies in economic sectors

www.gulfnews.com/news/gulf/uae/environment/green-growth-towards-a-low-carbon-economy-1.863832

Malaysia push for a low-carbon economy through the launching of the National Green Technology Policy in 2009 which served as a springboard for the people of Malaysia to enjoy a good quality of life.

Transparency International Bangladesh to track down the climate change fund

www.bdnews24.com/details.php?id=206949&cid=2

Bangladesh has set up a Climate Change Trust Fund with \$ 300mn from its own resources and development partners have assured it of adequate funding to tackle the adverse impact of climate change.

Indonesia launches massive program to fight climate change

www.chinapost.com.tw/asia/indonesia/2011/09/27/317969/Indonesia-launches.htm

Under the plan, the forestry sector and peatlands should reduce emissions by 672mn tons by 2020 and up to one billion tons if rich nations step in with more climate cash and other aid.

Israel's National Infrastructure Ministry allocate \$13mn to RE projects

www.gardenstateisrael.blogspot.com/2011/09/israel-allocates-millions-to-renewable.html

Business & Markets

India

Green Infrastructure plans 12MW biopower plant fueled by rice straw in Bihar
www.biomass-power.industry-focus.net/index.php/bihar-biomass-projects/133-green-infrastructure-plans-12-mw-biomass-plant-in-bihar.html

The project is expected to generate 74 MUs of energy and 63000 CERs per annum.

Tuticorin Alkali Chemicals & Fertilizer to set up 7MW biopower plant in Mullakadu, Tamil Nadu

www.biomass-power.industry-focus.net/index.php?option=com_content&task=view&id=131&Itemid&utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+BiomassPower+%28Biomass+Power%29

Lakshmi Energy plans Rs 9000mn biopower project in Khamnon, Punjab

www.biomass-power.industry-focus.net/index.php?option=com_content&task=view&id=130&Itemid=106&utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+BiomassPower+%28Biomass+Power%29

The plant will produce 180MW of power using rice husk and other agri waste as a fuel.

Rajiv Gandhi College of Engineering to work on 2nd 100 kVA biomass project

www.articles.timesofindia.indiatimes.com/2011-09-14/nagpur/30153400_1_biomass-power-generation-solar-power

Chandrapur Municipal Council would provide biomass and biowaste to the college.

Gupta Group to set up 10MW biopower plant in Wardha, Maharashtra

www.biomass-power.industry-focus.net/index.php/maharashtra-biomass-projects/134-gupta-group-to-set-up-10-mw-biomass-plant-in-wardha.html

The plant will use 75% of cotton stock as a fuel.

Vijaynagar Energy to set up 6MW biopower project in Marlanhalli Karnataka

www.biomass-power.industry-focus.net/index.php?option=com_content&task=view&id=133&Itemid=146&utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+BiomassPower+%28Biomass+Power%29

Gujarat sugar co operatives to supply 17.5mn litres ethanol to Orissa Mining Corporation

www.business-standard.com/india/news/guj-sugar-coops-to-supply-175-mn-litres-ethanol-to-omcs/447672/

North America

Construction of Canadian Biofuel's wood pellet and briquette production plant

www.bioenergy-news.com/index.php?Industry-News?item_id=4054

The plant will manufacture 1,500 tonnes of biomass fuel each month.

Construction of pellet testing lab in US

www.biomassmagazine.com/articles/5788/new-export-pellet-testing-lab-first-of-its-kind-in-u-s

Three RE firms to build and operate a 3.2MW biopower plant in Columbia

www.brighterenergy.org/26318/news/bioenergy/firms-team-up-for-3-2mw-biogas-project-in-south-carolina/

The plant will use 48,000 MT of organic waste as a fuel.

Nexterra receives \$6.9mn order to deliver biomass gasification system to department of Veterans Affairs medical center in Michigan

www.newswire.ca/en/story/839575/nexterra-receives-6-9-million-order-to-deliver-biomass-gasification-system-to-department-of-veterans-affairs-medical-center-in-michigan

The total cost of the project is \$18mn delivered in partnership with DeMaria Building Company and HGA Architects. Switching from fossil fuel to biomass supports the Department of Veterans Affairs' objectives of achieving a 30% reduction in GHG by 2020, producing a minimum of 7.5% of electricity from renewable sources.

Business & Markets

BioSyn to launch \$100mn biodiesel operation in Nebraska

www.biofuelsdigest.com/bdigest/2011/09/13/biosyn-to-launch-100m-biodiesel-operation-in-nebraska/

The plant will use animal fats & vegetable oils as a fuel.

Metro opens Long Island biodiesel blending, distribution terminal in New York

www.biodieselmagazine.com/articles/8026/metro-opens-long-island-biodiesel-blending-distribution-terminal

The facility currently is capable of handling more than 1mn gallons of bioheat and biodiesel. In 2nd phase, the company would increase blending/distribution capability to more than 2mn gallon.

Guardian Lima opens ethanol plant in Lima, Ohio

www.biofuels-news.com/industry_news.php?item_id=4040

The plant will produce 54mn gallons of ethanol, in addition to 165,000 tonnes of dried distillers grain with solubles.

Global Petroleum to ship 200mn gallons of ethanol in new rail operation in New York

www.biofuelsdigest.com/bdigest/2011/08/31/global-petroleum-to-ship-200m-gallons-of-ethanol-in-new-rail-operation/

Nord launches 75KW turnkey biogas plant in US

www.fwi.co.uk/Articles/08/09/2011/128913/New-option-for-small-scale-biogas.htm

The plant would run on slurry or manure from cattle or pigs.

Gevo Inc. signs strategic marketing alliance with Mansfield Oil Co. to distribute its isobutanol fuel into the petroleum market

www.biorefiningmagazine.com/articles/5785/gevo-signs-offtake-agreement-with-mansfield-oil-co

Filta Environmental opens franchise to capture and recycle waste cooking oil for biodiesel in North Dakota

www.biofuelsdigest.com/bdigest/2011/09/19/new-franchise-for-capture-recycling-of-waste-cooking-oil-for-biodiesel/, www.prweb.com/releases/2011/9/prweb8778003.htm

China and US remain most attractive locations for renewable investment

www.businessgreen.com/bg/news/2105830/china-remain-attractive-locations-renewables-investment

Verliant Energy and Achor Anaerobic for AD plants having capacity of 10MW in US

www.verliantenergy.com/news-events/verliant-energy-alliance-with-achor/

Under the agreement, VEP will use Achor's unique "achorlytic" enzyme and digestion-inoculating technology to significantly enhance the productivity of anaerobic digestion in its projects in the US.

North Carolina, US, Duke University and Duke Energy to develop a RE project

www.bioenergy-news.com/index.php?Industry-News?item_id=4028

The plant would reduce CO₂ emissions by 5000 tonnes per year.

Europe

Biomass imports to serve 81% of UK bioenergy market by 2020

www.bioenergy-news.com/index.php?Industry-News?item_id=3988

Currently 74% of the bioenergy industry is supplied with domestic feedstocks, and plans to shift to 81% imported biomass as the UK strives to meet the RED. Under the RED, 15% of energy is to come from renewable sources by 2020. The most significant increase will come from wood imports, which are predicted to rise to 68%, up from 13%.

Business & Markets

Babcock & Wilcox to develop a 75MW biopower plant in Berlin at the cost of \$186mn

www.brighterenergy.org/26540/news/wind/babcock-wilcox-wins-186m-contract-to-build-nh-biomass-plant/

BWCC convert the former Fraser Paper Mill to 75MW biomass energy power plant that will be fueled by wood chips and logging waste.

Metso to convert polish coal-fired CHP plant to biopower plant in Poland at a cost of \$28mn

www.biomassmagazine.com/articles/5770/metso-to-convert-polish-coal-fired-chp-plant-to-biomass

UK approves Welsh 299 MW biopower plant in Anglesey

www.reuters.com/article/2011/09/16/us-britain-biomass-approval-idUSTRE78F21V20110916

The plant will use imported and local sources of biomass to produce electricity – enough to power around 300,000 homes.

Metso to supply 18MW biomass plant to Kotka Energy in Finland

www.risinfo.com/techchannels/powerenergy/Metso-to-supply-biomass-fired-heating-plant-for-production-of-district-heat-to-Kotka-Energy-in-Finland.html

Three industrial consultants to construct a biodiesel plant on the outskirts of Stourport

www.insidermedia.com/insider/midlands/58355-entrepreneurs-power-bio-diesel-plant/

Inauguration of Europe's largest \$913mn biodiesel facility in Rotterdam

www.biofuelsdigest.com/bdigest/2011/09/22/neste-oil-debuts-massive-renewable-diesel-plant-in-rotterdam/

The plant will use a wide variety of oils, greases and fats as feedstock to produce 800000MT of biodiesel annually.

Evonik Industries to manufacture catalysts for biodiesel production in Argentina

www.thebioenergysite.com/news/9623/evonik-builds-biodiesel-catalyst-plant-in-argentina

Dong Energy and local partners plan to build bioethanol plant to turn straw into fuel

www.ifandp.com/article/0013358.html

Lufthansa to use Jatenergy's jatropa oil in bio-jet trial in Germany

www.greenoilplantations.com/news/jatenergy-sells-jatropa-oil-to-lufthansa

Jatenergy Ltd. plans to sell 200 metric tons crude jatropa oil at \$1,000 per metric ton to Lufthansa. for use in its long-term trial of renewable jet fuels.

Diageo plans £6mn bio energy plant for sustainable scotch whiskey

www.spirits.drinks-business-review.com/news/diageo-plans-6m-bioenergy-plant-for-sustainable-scotch-whiskey-050911

The plant will produce energy by burning draff - the spent grain left over from distilling whisky.

RWE Co. to invest €13mn for biogas plant in Bergheim Paffendorf

www.bioenergy-news.com/index.php?/Industry-News?item_id=3991

The plant will produce 7.4MW of electricity fueled by feedstocks like sugar beets, alfalfa and manure.

Biogas-Miskolc to build a €7.5mn biogas plant to be fueled by sewage sludge in hungary

www.thebioenergysite.com/news/9269/hungarian-plant-utilises-sewage-sludge

Business & Markets

Africa

Africa Renewables Ltd launches biomass supply chain project in Ghana

www.biomassmagazine.com/articles/5771/ghana-sees-first-biomass-supply-chain-project

Mozambique food-energy business to produce ethanol cooking fuel

www.ecoseed.org/business/emerging-markets/article/131-emerging-markets/11294-mozambique-food-energy-business-to-produce-ethanol-cooking-fuel

Novozymes and CleanStar replace charcoal-burning cooking stoves with ethanol stoves.

30 biofuel projects are currently underway in Mozambique with a total investment of over US\$100mn

www.allafrica.com/stories/201109051562.html

The projects will save more than \$682mn per year through reduced fuel imports in the Country.

Camco to work on new energy project in East Africa

www.livecharts.co.uk/share_prices/Camco-wins-clean-energy-contracts-in-East-Afr-news4527862.html

Latin America

Brazil to import 1bn liters of ethanol in 2011

www.biofuelsdigest.com/bdigest/2011/09/22/brazil-to-import-1b-liters-of-ethanol-in-2011-unica/

Ecodiesel approves \$1.08bn biofuel acquisition in Brazil

www.bloomberg.com/news/2011-09-06/ecodiesel-shareholders-approve-1-08-billion-biofuel-acquisition.html

SG Biofuels enters collaborative jatropha project in Brazil

www.renewableenergyworld.com/rea/partner/green-power-conferences-3234/news/article/2011/09/jatropha-to-be-sourced-for-brazilian-bio-jet-fuel

Other Countries

Gazprom, Russia's largest natural gas company switches to biomass

www.bioenergy-news.com/index.php?Industry-News?item_id=3990

The company installed four 6MW biomass boilers at its 24MW plant.

Australia-based geothermal company set up a new subsidiary dedicated to biomass projects in Indonesia

www.bioenergy-news.com/index.php?Industry-News?item_id=4027

The Greenerth Biomass Energy will create 'green' energy projects using biomass and waste materials

GLOBAL Business Power Corporation plans to invest in biopower plant in the Negros Occidental, Philippines

www.sunstar.com.ph/bacolod/local-news/2011/09/19/coal-investor-eyes-biomass-negros-180204

Japan International Co-operation Agency and Viet nam National University sign US\$5mn project to develop green technology for biodiesel production in Viet nam

www.vietnamnews.vnagency.com.vn/Industries/215338/Green-fuel-project-looks-at-biodiesel.html

PetroChina plans to add 1.1mn tonnes of biofuels production capacity and import 470,000 tonnes of fuels by 2015

www.af.reuters.com/article/commoditiesNews/idAFL3E7K81YZ20110908

Business & Markets

Global bio fuel production grows by 17% in 2010

www.endseurope.com/26982/global-biofuel-production-grows-17-in-2010

Australia consortium is planning to build a pilot-scale biofuel production facility

www.energy.wesrhc.com/news-TR10VJNEVT

Founder and CEO of Softbank Masayoshi Son launches Japan RE Foundation with mammoth goals

www.physorg.com/news/2011-09-japanese-businessman-japan-renewable-energy.html

Son invests 1bn yen and plans to invest between 10 and 20bn yen over the next several years to move Japan from its current heavy reliance on nuclear power to an infrastructure that meets 60% of its electricity needs from renewable sources by 2030.

Finance & Investments

India

Indian green IT and sustainability investment to touch \$70bn by 2015

www.articles.timesofindia.indiatimes.com/2011-09-19/infrastructure/30175423_1_sustainability-ict-industry-indian-businesses

North America

U.S. project for marine, aviation biofuels seeks private funding of \$ 500mn

[www.ecoseed.org/bioenergy-blog/other-biofuel-technologies/article/63-other-biofuel-technologies/11115-\\$500-million-u-s-project-for-marine-aviation-biofuels-seeks-private-funding](http://www.ecoseed.org/bioenergy-blog/other-biofuel-technologies/article/63-other-biofuel-technologies/11115-$500-million-u-s-project-for-marine-aviation-biofuels-seeks-private-funding)

These efforts will accelerate advanced technologies to produce infrastructure-compatible biofuels that will replace imported crude oil with secure, renewable fuels made in the US.

Canada invests in study for bio-based jet fuel

www.thebioenergysite.com/news/9637/canada-invests-in-study-for-biobased-jet-fuel

The investment of more than C\$150,000 is to determine the economic feasibility of developing the industry in Saskatchewan, as part of National Biotechnology Week celebrations.

University of Guelph's ridgetown campus unveiled a \$2.6mn funded anaerobic bio-digester to convert agricultural and food industry biomass to bio gas

www.chathamdailynews.ca/ArticleDisplay.aspx?e=3280914

The campus unveiled a \$2.6mn FedDev Ontario-funded anaerobic bio-digester that converts agricultural and food industry biomass to biogas.

SDTC announces new funding round for emerging cleantech in Canada

www.cwn-rce.ca/news-and-events/opportunities/sdtdc-announces-latest-funding-round-for-clean-technology/

SDTC invests in a range of innovative solutions across all industries that address climate change, clean air, water and soil.

US clean energy investor Cate Street Capital has closed financing for construction of a \$275mn biomass plant in Berlin, New Hampshire

www.biofuelsandbiomass.energy-business-review.com/news/cate-street-starwood-close-financing-for-275m-biomass-plant-in-new-hampshire-150911

The power project will consume approximately 750,000 tons of low-grade wood per year, all of which will be sourced through an environmentally responsible wood fuel procurement program, ensuring CO2 neutrality.

New York State offers \$150mn for RE Projects

www.businessfacilities.com/news/new-york-state-offers-150-million-for-renewable-energy-projects/

North Carolina Biotechnology Center awarded \$60,500 in competitive research grants to undergraduate campuses

www.charlotteraleigh.citybizlist.com/14/2011/9/7/Undergrads-Research-Infants-Insects-and-an-Island.aspx

These grants encourage talented students around the state to pursue biotechnology research projects that can inspire important career decisions.

GE leads \$22mn round for project Frog in Ossining, New York

www.newyork.citybizlist.com/18/2011/9/7/GE-Leads-22M-Round-for-Project-Frog.aspx

Project Frog's technology improves traditional building construction methods by combining semi-custom designs with a pre-engineered kit of energy-efficient building components. This enables higher quality, more environmentally sustainable, faster and cheaper construction.

Finance & Investments

Europe

Areva-led consortium awarded €155mn biomass contract to build a biomass power plant in Delfzijl, Northern Netherlands

www.areva.com/EN/news-8993/biomass-areva-led-consortium-awarded-155-m-contract.html

The biomass unit will supply green electricity to meet the needs of 120,000 households and save 250,000 tons of CO₂ emissions annually.

European Bank for Reconstruction and Development provides EUR 5mn to Croatia's Agrokor for biogas power plant

www.cospp.com/news/2011/09/1501610859/ebird-lends-eur-5mn-to-croatia-s-agrokor-for-biogas-power-plant.html

The plant will be fuelled by organic waste, by-products of Agrokor's food production process. It will have a generation capacity of 1MW of electricity and will produce up to 1MW of heat.

Denmark's frontier raises €60mn for African RE fund

www.altassets.net/private-equity-news/article/nz21803.html

The fund will invest equity in small and medium-sized energy projects ranging from €3mn to 100mn, depending on co-investment and leverage. The fund's investment into the projects is expected to range from €3mn to €10mn.

European Bank for Reconstruction and Development dedicates €60mn to Romania's energy efficiency efforts

www.ebrd.com/pages/news/press/2011/110926a.shtml

The bank will partner with the Romanian SME Sustainable Energy Financial Facility to help local companies maximise energy savings and improve their overall competitiveness.

UK growth investor Bridges Ventures has made a £2mn investment in Ardenham Energy, a developer and installer of renewable energy projects in homes, farms and businesses

www.altassets.com/private-equity-news/article/nz21897.html

The investment has been made through the Bridges Venture Funds and is their fifth investment within the environmental space.

KfW Group invests €100bn to ease the country's transition from nuclear power to RE generation

www.bloomberg.com/news/2011-09-19/kfw-to-provide-100-billion-euros-to-aid-german-energy-transition.html

Barclays £100mn fund for RE projects in UK

www.electric.co.uk/news/barclays-creates-100-million-pound-fund-for-renewable-energy-projects-12342106.html

Other Countries

COFCO invests \$156.7mn in production line of cellulosic ethanol with capacity of 100,000 tons per year

www.biofuelsdigest.com/bdigest/2011/09/26/cofco-to-lay-cornerstone-on-50k-tonne-cellulosic-ethanol-project/

PTT planning to invest between \$3mn and \$4mn in biomass-fired power plant in Indonesia

www.bioenergy-news.com/index.php?Industry-News?item_id=4024

The plant will generate 10MW of electricity for nearby areas.

North America

US OriginOil creates new algae extraction process

www.originoil.com/company-news/originoil-announces-breakthrough-process-for-live-algae-oil-extraction.html

The process will increase the efficiency of algae extraction without the use of toxic solvents.

Panda poop could improve bio fuel manufacturing processes in US

www.ecoseed.org/waste-to-energy/article/13-waste-to-energy/11069-panda-poop-could-improve-biofuel-manufacture-processes

Panda poop may contain the next breakthrough organism to turn cellulosic material into biofuels.

Imperium,Pacific Northwest National Laboratory to develop catalytic process for alcohol-to jet fuel conversion

www.biofuelsdigest.com/bdigest/2011/09/28/imperium-pnnl-developing-catalytic-process-for-alcohol-to-jet-fuel-conversion/

Converting cowpats into biogas & electricity at Peresadovka, Ukraine

www.openpr.com/news/190475/Cowpats-will-be-converted-into-biogas-and-electricity-at-Peresadovka-Ukraine.html

Europe

Neste Oil & Marine Research Center conducts research on algae varieties for the production of biodiesel in Finland

www.biofuels-news.com/industry_news.php?item_id=4037

Scientists in UK to build a microwave to turn orange peel into biofuel oil

www.articles.timesofindia.indiatimes.com/2011-09-19/science/30175144_1_food-waste-microwave-method-producer-of-orange-juice

The high power microwave could break down the molecules in fruit peel to release gases that could be collected and distilled into a liquid product. These valuable gases can then be used to produce oil, plastics, chemicals and fuels.

Siemens brings RE transmission technology to Mallorca in Spain

www.greenenergyforearth.com/2011/09/21/siemens-brings-renewables-power-to-mallorca/

UK researchers trial for geoengineering climate technology to cut climate change

www.novim.org/resources/novim-news/121-geoengineering-trials-get-under-way

The project is to find out the ideal particles to use in an atmospheric sunshade and will attempt to model their effects in greater detail than ever before. An innovative trial will see researchers in Norfolk, UK, aim to find a revolutionary way to cut climate change.

Africa

Sweet Sorghum is best option for alternative energy in Ghana

www.ghanabusinessnews.com/2011/09/30/sweet-sorghum-is-best-option-for-alternative-energy-farmers/

Sorghum Farmers and Seed Growers urged to recommend the use of sweet sorghum for biofuel under the Savannah Accelerated Development Project. The stock can be used for ethanol, the residue is used in poultry feed and the grain is for consumption.

National Center for Energy and Environment develop biodiesel production equipment for more efficient transformation of jatropha oil into fuel in Nigeria

www.biofuelsdigest.com/bdigest/2011/09/22/nigeria-training-farmers-in-jatropha-biodiesel-and-pineapple-peel-ethanol/

The equipment would ensure more efficient transformation of jatropha.

R & D - Technology

Latin America

Nexterra signs collaborative bioenergy research agreement with the University of British Columbia

www.cospp.com/news/2011/09/1505830416/nexterra-signs-collaborative-bioenergy-research-agreement-with-the-university-of-british-columbia.html

Under the agreement, Nexterra and UBC will work together on a project to assess the potential for a new, lower cost catalytic process for removing tars from the synthetic gas produced by Nexterra's gasification technology.

Coffee growers research biofuel from coffee waste in Colombia

www.thebioenergysite.com/news/9640/coffee-growers-research-biofuel-from-coffee-waste

The test plant produces 800 to 1,000 liters of ethanol per day from the mucilage waste collected from 450 square meters of coffee growing.

Other Countries

Philippine Rice Research Institute will test the efficiency of its developed biofuel on machines in order to reduce the increasing fuel expenses of farmers

www.pia.gov.ph/?m=1&t=1&id=52643

It can enhance the energy supply security using indigenous resources that boost engine power and acceleration & farmers get more mileage and big saving per liter using biofuel.

Scotland to help the Maldives become a carbon neutral nation

www.electric.co.uk/news/scotland-to-help-the-maldives-become-a-carbon-neutral-nation-12342104.html

The study was taking a look at both the technological and the social economic dimensions of deploying marine RE. The goal here would be to use this eco-friendly technology to become the world's first carbon neutral nation by 2020.

EnergyPark signs agreement with Tetronics to deal with Air Pollution Control residues create onsite at EnergyPark Peterborough

www.thebioenergysite.com/news/9552/energypark-signs-agreement-with-tetronics

The Agreement gives PREL permission to use Tetronics patented technology to deal with Air Pollution Control residues created onsite at EnergyPark Peterborough.

Climate Change & Environment

India

Ganapati mandals adopt eco-friendly measures and decorations to portray cause of environment protection and conservation in Pune

www.articles.timesofindia.indiatimes.com/2011-09-09/pune/30134690_1_rain-water-eco-friendly-mandals

The Times of India unveiled Times Green Ganesha (TGG) initiative along with the Maharashtra Pollution Control Board. This will promote celebration of Ganeshotsav in an eco-friendly manner

Increasing pollution levels choking India's lakes

www.articles.economictimes.indiatimes.com/2011-09-29/news/30218264_1_water-bodies-lakes-water-crisis

The discharge of sewage results in large-scale outbreak of water-borne infections and diseases, epidemics and the growth of wild weeds.

North America

Climate change affected by shift from coal to natural gas in US

www.content.usatoday.com/communities/greenhouse/post/2011/09/climate-change-natural-gas-coal/1

The natural gas could reduce the rate of global warming, & temperatures drop by an amount compared to 5.4 degrees F of warming projected by 2100 under current energy trends.

Europe

Sony UK site wins deals to build low carbon street lights

www.worksmanagement.co.uk/news/sony-uk-factory-wins-order-for-low-carbon-street-lights/36773/

LED Roadway Lighting is low carbon lighting that uses high performance LEDs which are free of lead and mercury, that can be retrofitted and offer energy savings of up to 50-80% over conventional road lighting.

UK companies target to cut emissions 80% by 2050

www.energyefficiencynews.com/power-generation/i/4477/

The Government's target, electricity carbon intensity needs to fall by 17 g of CO₂ every year between now and 2020.

Energy Technologies Institute launches £3mn carbon capture and storage modelling project in UK

www.powerengineeringint.com/articles/2011/09/eti-launches-3m-ccs-tool-kit-project.html

The UK's Energy Technologies Institute has launched a £3m project that will help support the future design, operation and roll-out of cost effective carbon capture and storage systems in the UK.

UK schools sign up to cut energy costs and carbon emissions

www.energyefficiencynews.com/power-generation/i/4509/

Under the scheme, schools will work with their local authority and the Carbon Trust to become more energy efficient by planning their future energy strategy.

British gas plans a joint project with bio group to help the UK lower its carbon emissions

www.electric.co.uk/news/british-gas-plans-a-joint-project-with-bio-group-12342127.html

This plant is supposed to heat homes using leftovers from restaurants all over the UK. Overall, the project will be fueled by waste from hotels, restaurants, takeaways, and even offices. The new plant is going to produce energy for 1,400 homes.

Climate Change & Environment

Latin America

According to WHO Canada's air quality 3rd best in world

www.cbc.ca/news/health/story/2011/09/26/air-pollution-who-ahvaz.html

The global health body release list of measurements ranking 1,100 cities in 91 countries. The list is intended to highlight the need to reduce outdoor air pollution, which is estimated to cause 1.34mn premature deaths each year.

Other Countries

Global emissions of Co2 increased by 45 %

www.irishweatheronline.com/news/environment/climate-news/co2-emissions-jump-by-45-in-20-years/39236.html

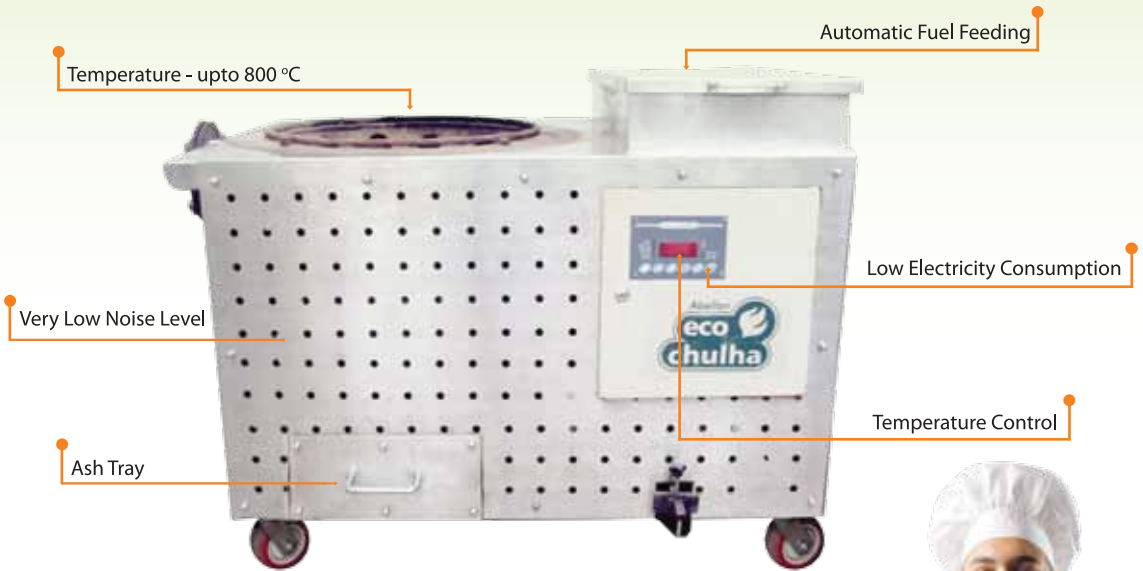
The countries show widely variable emission trends, industrialised countries are likely to meet the collective Kyoto target of a 5.2 % reduction of greenhouse gas emissions by 2012.

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

Abellon CleanEnergy

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 | Web: www.abelloncleanenergy.com