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Dear Readers,

Independence begins at the bottom. This is a thought given by Mahatma Gandhi, the father of the nation many years ago. Today, as India celebrates its 65th independence day, the thought attains even more relevance as our nation takes the fast track to growth and success, amidst emerging concerns about adopting an inclusive and sustainable approach towards growth that benefits not just a handful, but our entire population of 1 billion.

Energy access is one of the key challenges facing our country today. Energy lies at the core of any country's growth and plays a big role in economic and social development. With conventional energy sources getting scarcer by the day, there is a growing focus on renewable energy sources that can lead to energy independence for the nation, while at the same time addressing the challenge of environmental degradation. In a predominantly agricultural country such as India, Bioenergy is a resource that offers the highest potential for meeting energy needs in a sustainable and inclusive manner, by taking energy access into the remotest locations of the country, providing rural communities with scope for income and employment generation, and creating value from waste. Thus, Bioenergy provides the triple bottomline benefits of economic, social and environmental development .

We at BECI are committed to harnessing the power and potential of Bioenergy towards creating an energy independent and environment friendly world. We invite like minded organizations and individuals to join us in realizing this mission.

Thank you

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

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Policy Initiatives

India

Bangalore University to set up biogas plant at Jnanabharati

www.deccanherald.com/content/173782/bu-set-up-biogas-plant.html

The Bruhat Bangalore Mahanagara Palike will supply 25 metric tonnes of organic waste every day for the project.

Punjab Government to offer subsidy on biogas tube well project

www.nation.com.pk/pakistan-news-newspaper-daily-english-online/Regional/Lahore/18-Jul-2011/Punjab-to-offer-subsidy-on-biogas-tube-wells

Through this subsidy, the Government will develop and promote agriculture by introducing modern technology.

GMC and GMDC to implement waste management plan

www.articles.timesofindia.indiatimes.com/2011-07-13/guwahati/29768161_1_garbage-disposal-business-establishments-solid-waste

Punjab to launch integrated waste management scheme

www.business-standard.com/india/news/punjab-to-launch-integrated-waste-management-system-this-year/442608/

The scheme would cover 8 zones and 137 towns of the Punjab.

Bihar to generate 70MW electricity using forest products and 650MW using agricultural wastes

www.ibnlive.in.com/generalnewsfeed/news/bihar-can-generate-720-mw-from-alternative-sources-patil/761720.html

Municipal SWM model in Paradeep near Orrisa

www.orissadiary.com/CurrentNews.asp?id=28133

World Bank would provide Rs 14.39crore funding to the project.

Karnataka State Pollution Control Board - GIZ organize workshop on 'Co-processing of waste in cement kilns, power plants and integrated iron and steel industry'

www.ibnlive.in.com/news/workshop-on-waste-management-held/169418-60-119.html

Punjab Government and US-based company to develop biotech park

www.expressindia.com/latest-news/us-firms-arm-to-develop-biotech-park/814952/

It will establish a 10 acre agri food biotechnology facility, a 15 acre R&D facility for the agri-food sector and also bio-pharma.

North America

The North Carolina Biotechnology Center grants \$1.4mn to Universities to boost biotech research

www.bizjournals.com/triangle/news/2011/07/28/biotech-center-bestows-14m-in-grants.html

CEC awards \$29mn for biofuel

www.thebioenergysite.com/news/9131/energy-commission-awards-29-mn-for-biofuel

The US' Overseas Private Investment Corp to invest \$880mn on RE projects in India

www.energy matters.com.au/index.php?main_page=news_article&article_id=1654

US Government to invest up to \$820mn in the RE sector in India by end of 2011

www.expressbuzz.com/finance/us-funding-for-clean-energy-projects/295981.html%5D

Policy Initiatives

British Columbia Government to grant \$5mn for biomass, biogas projects

www.biomassmagazine.com/articles/5674/bc-government-funds-biomass-biogas-projects

Key points of the grant:

- ASG Canada Energy Inc. will receive \$1mn to convert waste biomass to biodiesel
- Cedar Road LFG Inc. in Nanaimo will use \$1mn to demonstrate a solution for the storage and dispensing of biogas for commercial vehicles
- Nations Energy Corp. in Kamloops will receive \$1mn for a commercial-scale torrefaction plant to convert mountain pine beetle-damaged wood into biocoal fuel pellets
- Pytrade Canada Inc. in Kitimat will use \$1mn to build a fast-pyrolysis plant to produce bio-oil
- Tsay Keh Dene First Nation at Williston Lake will receive \$1mn that will use wood waste to produce heat and electricity

Massachusetts towns receive grant for RE projects

www.masslive.com/news/index.ssf/2011/07/five_western_massachusetts_tow.html

Europe

EU FTA will boost green energy sector

www.joongangdaily.joins.com/article/view.asp?aid=2938677

EU funds HUF 1bn to Biogas - Miskolc Kft for biogas plant

www.bbj.hu/business/new-biogas-plant-to-use-sewage-sludge-for-fuel_59105

Devon County Council – Viridor Co. to invest £45mn in WTE plant at UK

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-region/europe/viridor-to-invest-45m-in-uk-waste-to-energy-plant.html

Russia to invest €200mn in foreign clean technology

www.reuters.com/article/2011/07/19/russia-greentech-idUSLDE72C0D120110719

EU to set new rules for radioactive waste management

www.europolitics.info/europolitics/eu-has-new-rules-for-radioactive-waste-management-art310277-46.html

Under this rule, each member state will have to set up a regulatory body to manage spent fuel and radioactive waste.

Other Countries

Padawan Municipal Council to establish biogas composting plant at Kota Sentosa wet market

www.theborneopost.com/2011/07/19/council-plans-first-biogas-plant-at-kota-sentosa/

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

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

Israel to produce 2760MW of electricity from RE sources by 2020

www.theisraelproject.org/site/apps/nlnet/content2.aspx?c=hsJPK0PIJpH&b=689705&ct=10913031

The total electricity would be produced using solar, wind and biofuel.

Business & Markets

India

Orient Green Power's biopower plant synchronizes 10MW of power into Tamilnadu grid

www.ibnlive.in.com/generalnewsfeed/news/power-company-synchronise-10-pc-of-its-power-into-tn-grid/748222.html

Marine micro algae fuel successfully trialed in India

www.biofuelsdigest.com/bdigest/2011/07/18/microalgae-fuel-successfully-trialed-in-india/

The fueled car has achieved a mileage of 12.4km/liter, which exceeds the average mileage of the same car run on regular diesel.

Aishwarya Women's Community Forest Consumers' Group supports installation of biogas plants in kailali village

www.thehindu.com/fullNews.php?headline=Kailali+village+switches+to+biogas%09&NewsID=294486

Students of Surat convert auto fuel using biogas

www.dnaindia.com/india/report_vrooming-ideas-surat-students-make-auto-fuel-from-biogas_1565763

North America

Orbeo, Grupo Piasa to develop 40MW biopower facility in Mexico

www.reuters.com/article/2011/07/12/orbeo-cdm-idUSL6E7IC0ET20110712

The plant fueled by bagasse will reduce 572,500 tonnes of CO₂ emissions by 2021.

World Health Energy Holdings Inc. - SHK Energy Products Pvt Ltd. to produce biodiesel

www.biorefiningmagazine.com/articles/5636/world-health-energy-holdings-announces-mou-for-algae-project

OriginOil investment brings algae-to-oil system to market

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/biofuel-biomass/originoil-brings-algae-to-oil-system-to-market.html

Tyson Foods to build \$126mn biodiesel plant

www.theadvertiser.com/article/20071114/BUSINESS/711140313/Tyson-build-126M-biofuels-plant?odyssey=nav%7Chead

The plant will use chicken fat as a fuel and the company has already sourced £2.3bn worth of fat.

Japanese telecommunications company to install 5 energy fuel cells at California data center to use biogas as a fuel

www.news.cnet.com/8301-11128_3-20085037-54/bloom-energy-to-power-data-center-with-biogas/

Biodiesel facility in Cowichan Valley using waste cooking oil as a fuel

www.biofuels-news.com/industry_news.php?item_id=3869

Europe

Pöyry to build biofuel-fired CHP plants for Fortum

www.cisionwire.com/poyry-ojy-ext/r/poyry-to-design-two-biofuel-fired-chp-plants-for-fortum,e246511

Eco Sustainable Solutions Ltd. to construct \$19mn biopower plant

www.bloomberg.com/news/2011-07-18/eco-sustainable-gets-planning-permission-for-u-k-biomass-plant.html

The plant will generate 3MW power – enough to provide power for 5,000 homes.

Business & Markets

Ballast Nedam builds €48mn biopower plant in Delfzijl

www.pnnewswire.com/news-releases/ballast-nedam-builds-biomass-power-plant-in-delfzijl-126233663.html

The plant would produce 49MW of electricity using waste wood chips.

GazEnergoStroy to build 3 bioenergy stations in Rostov Region

www.oilandgaseurasia.com/news/p/0/news/12145

Each bio-energy stations will process 500 tons of material a day.

UK hospital teams with Schneider to reduce energy consumption by 40%, CO₂ emissions by 43 %

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/uk-hospital-teams-with-schneider-to-reduce-consumption-by-40.html

Xergi and Arla Foods to construct biogas plant at Videbæk

www.bioenergy-news.com/index.php?/Industry-News?item_id=3838

The plant will convert manure and other waste materials into 16mn m3 of methane gas.

Pennsylvania Bio collaborates with Italian Biotech Association

www.thepharmaletter.com/file/105465/pennsylvania-bio-collaborates-with-italian-biotech-association.html

The collaboration would develop, evolve and sustain the life sciences industry relationship between Italy and Pennsylvania.

Other Countries

Rentech to construct biomass integrated gasification combined cycle project

www.yourrenewablenews.com/rentech+receives+final+air+permit+for+its+port+st.+joe+renewable+energy+project_65782.html

The plant would produce 55MW of power from 930 dry tons/day of woody biomass.

China to expand biopower generation capacity to 13mn KW by 2015

www.chinadaily.com.cn/bizchina/2011-07/11/content_12878618.htm

Caterpillar Inc. grows perennial grasses on 60acre land

www.herald-review.com/news/local/article_c427680d-1044-543f-83a1-77142bd28377.html

UAE McDonalds to produce bio fuel from used vegetable oil

www.greenprophet.com/2011/07/uae-mcdonalds-greases-its-100-biodiesel-delivery-fleet/

McDonalds would use more than 5,000 gallons of vegetable oil from its 90 branches throughout the UAE.

Virgin Australia forms consortium to develop new bio fuel

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/biofuel-biomass/virgin-australia-forms-consortium-to-develop-new-biofuel.html

Tucson company produces biodiesel from cooking oil

www.insidetucsonbusiness.com/news/the_next_generation/from-fryer-to-fuel-tucson-company-turns-used-cooking-oil/article_5ca13b8c-a6e8-11e0-b923-001cc4c002e0.html

Qatar households will use electricity produced from domestic waste

www.gulfnews.com/news/gulf/qatar/waste-based-electricity-to-power-homes-in-qatar-1.839873

The Domestic SWM Center would supply 34.4MW electricity to the grid.

Finance & Investments

India

FE Clean Energy Group invests \$40mn in NSL Renewable Power Pvt Ltd

www.vccircle.com/500/news/nsi-renewable-power-to-raise-40m-from-fe-clean-energy

The company will use funding for equity commitments for its upcoming wind, hydro and solar power projects.

North America

Japanese trading company Itochu invests in Florida biomass plant

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/news-type/deals-news/japanese-trading-company-itochu-invests-in-florida-biomass-plant.html

Europe

Albion Ventures to invest £37mn into UK RE sector

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/bytechnology/solar/albion-ventures-to-invest-37m-into-uk-renewables.html

Africa

Africa Renewables seeks €30mn for biomass projects

www.renewableenergyfocus.com/view/19312/africa-renewables-seeks-30m-for-biomass-projects/

The project involves harvesting redundant rubber trees and processing them into wood chips, which are then sold to European power houses and businesses as replacements for coal.

Other Countries

Global investments in RE reach to \$211bn

www.ifandp.com/article/0012131.htmlwww.malaya.com.ph/july29/envi3.html

R & D - Technology

North America

Researchers at Purdue University: Termite guts could lead to biofuel production

www.dailytech.com/Termite+Guts+Could+Lead+to+Biofuel+Production+/article22098.htm

According to the study, termites have digestive systems that could overcome current obstacles associated with creating fuel from wood biomass.

Appalachian State University, Catawba County to open bio diesel R&D unit

www.biofuelsdigest.com/bdigest/2011/07/25/appalachian-state-u-catawba-county-biodiesel-rd-unit-to-open-august-15th/

The unit has a production capacity of 100,000 gallons per year.

California Professor develops low-cost, low-power system to monitor black carbon concentrations in air

www.indianexpress.com/news/Indian-origin-prof-uses-cellphone-to-monitor-black-carbon-in-air/814448/

Tucson company produces biodiesel from waste cooking oil

www.insidetucsonbusiness.com/news/the_next_generation/from-fryer-to-fuel-tucson-company-turns-used-cooking-oil/article_5ca13b8c-ae68-11e0-b923-001cc4c002e0.html

Europe

Aberystwyth University: Kelp Seaweed could provide an alternative to land-based biofuels

www.walesonline.co.uk/news/wales-news/2011/07/06/seaweed-could-have-important-biofuel-role-say-scientists-91466-29000895/

Climate Change Capital Private Equity LP invests €8mn in Orège SA to develop wastewater treatment technology

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-region/europe/climate-change-capital-invest-e8m-into-french-wastewater-company-orege.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=33f92294ca-NewNet_Clean_Energy_Investor_Newsletter_7_6_2011&utm_medium=email

Other Countries

University of Wisconsin-Madison produces biofuel from churning through sugar

www.eurekalert.org/pub_releases/2011-07/uow-ng072011.php

Virginia to promote green transportation across the state

www.ecoseed.org/politics-article-list/article/3-politics/10419-virginia-issues-order-to-convert-state-owned-fleet-into-alternative-fuel-vehicles

Climate Change & Environment

India

Climate change a major challenge to India's agriculture: PM Manmohan Singh

www.dailyindia.com/show/451122.php

Europe

Sony Europe achieves over 30% reduction in Global CO₂ emissions by using RE sources

www.4-traders.com/SONY-CORPORATION-6492482/news/SONY-CORPORATION-Sony-Achieves-Over-30-Reduction-in-Global-CO2-Emissions-1372222/

Fast Facts

1 According to researchers in India & Bangladesh, the sea level would rise approximately 11 inches by 2070, which would cause the tiger population on the Bangladesh side to decline by 96%.

(http://www.aboutmyplanet.com/climate-change/tiger-populations-threatened-by-rising-seas/?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+Aboutmyplanetcom+%28aboutMyPlanet.com%29)

2 The Great Barrier Reef area in Australia is actually home to the world's largest population of sea turtles. According to experts, sands of this area would be too hot to even allow their eggs to survive due to global warming by 2070.

(http://www.aboutmyplanet.com/climate-change/turtles-scorching/?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+Aboutmyplanetcom+%28aboutMyPlanet.com%29)

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

ORGANIC SOIL & PLANT NUTRITION

Abellon Agrisciences also focuses on integrated plant & soil health management, through its knowledge of applied soil & crop sciences.

- A balanced blend of 100% bio-organic materials, micro nutrients & beneficial microflora essential for nourishing the soil and plants.
- Suitable for all kinds of plants and home gardens including flowering and ornamental plants, fruit trees and landscapes
- Provides essential nutrition & protection for plants
- Enhances soil structure
- Promotes healthy growth and longevity
- Pelletized for sustained nutrient release
- Odorless, clean, eco-friendly and easy to apply



earth
essentials



Bio-organic manure, made from organic materials to cater to large-scale, agricultural requirements.

Suitable for all crops, all types of soils and beneficial in all seasons.

Delivers ecological, economic, organo-chemical and biological benefits...

- Enriches soil quality
- Mobilizes nutrients and enhances beneficial microbial activity in the soil
- Reduces usage of chemical fertilizers
- Improves flavor, quality and product life of all the crops

BANANA GOLD

Abellon Agrisciences is also developing specific compositions / formulations to cater to the requirements of crops including Papaya, Chikoo, Guava, Mango, Custard Apple, to name a few.

One such formulation is **Banana Gold** - a specialty agro-nutrition solution to be utilized for large-scale banana farming.

The company has developed a hybrid model combining dedicated manufacturing of organic fertilizer pellets, with sourcing of raw material from village Self Help Groups (SHGs) that work with women and youth to generate value from organic waste.



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