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Dear Readers,

The Indian Budget for 2011-12 is a reflection of the urgency with which we need to focus on climate change mitigation. The Indian Government has ensured a robust and proactive course of action by allocating INR 600 Crores towards protection and regeneration of forests, environmental management and cleaning of rivers and lakes. 1/3rd of this amount will be targeted towards initiating implementation of the Government's ambitious 10-year National Mission for a Green India by 2011-12. Named "The Green India mission" it projects an ambitious target of 10 million hectares of forest cover by 2020 at a cost of about \$10 billion.

In our last issue, we had highlighted some of the major natural disasters that occurred during 2010-11. One such calamity, which sent shockwaves across the world was the recent earthquake and tsunami in Japan, creating havoc in the land of the rising sun. Japan has risen to the occasion in a commendable manner, and it is the country's high state of preparedness that has prevented the disaster from wreaking total damage. Yet, such disasters only reinforce the need for proactive and sustainable allocation of resources, to ensure a safer future.

BECI expresses heartfelt condolences and its solidarity with the people of Japan in their time of crisis, while calling for a stance of strong, courageous and rapid global action that can avert such disasters. We join the world in praying for the fast recovery and rebuilding of this wonderful country.

Thank You.

*Please post your feedback on
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<http://www.bioenergyindia.org/frmsendnewsfeedback.aspx>*

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Policy Initiatives

India

Surat Municipal Corporation to set up 3 biopower plants to generate 20,000 units of electricity/day at Bhesan, Dindoli and Variyav-Kosad

www.articles.timesofindia.indiatimes.com/2011-02-04/surat/28358166_1_power-plants-biogas-smc

The corporation has already developed 4 such operational plants that generate 32,000 units of power daily.

India to unveil domestic emissions trading scheme in Tamil Nadu and Gujarat

www.economictimes.indiatimes.com/news/politics/nation/india-to-unveil-emissions-trading-scheme-on-february-1/articleshow/7369378.cms

The scheme will introduce a system of self-regulation among industrial units by putting a price on emission of pollutants.

ADB releases Rs 1,300 crore loan for sewage, water supply and SWM projects in Kolkata

www.indiablooms.com/NewsDetailsPage/newsDetails030211u.php

German Government-owned development bank KfW earmarks €800mn for RE projects in India in 2011-2012

www.economictimes.indiatimes.com/news/news-by-industry/energy/power/kfw-earmarks-800-mn-euros-for-india-renewable-energy-projects/articleshow/7533188.cms

North America

Wood pellet firms in Athens, Maine receive \$300,000 from USDA

www.bioenergy-news.com/index.php?/Industry-News?item_id=3158

Oregon's biomass industry receives \$200,000 grant

www.columbian.com/news/2011/feb/14/kitzhaber-announces-grants-to-develop-biomass/

East Texas Electric Co-operative approves 50MW Woodville biopower plant

www.ktre.com/Global/story.asp?S=14142494

Canada to mandate 2% biodiesel content in heating oil

www.heatingoil.com/blog/canada-to-mandate-2-biodiesel-content-in-heating-oil0211/

Tseai Energy & University of Maryland receives grant for bioenergy development

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/maryland-cleantech-innovators-secure-grants.html

The group will develop a bio-digestion system that will convert mill effluent into biogas for electricity production in West Africa

University of British Columbia receives \$11.2mn grant for biopower project

www.vancouversun.com/technology/gets+million+advance+bioenergy+project/4341356/story.html

The project will eliminate up to 4,500 tonnes of GHG emissions per year from campus.

Medellín sets target to reach 99% solid waste collection by 2020

www.waste-management-world.com/index/from-the-wires/wire-news-display/1361394455.html

Policy Initiatives

Energy Innovation hubs receives \$34mn from US DoE

www.jsonline.com/business/116204624.html

DoE will also provide \$146mn to other 3 Energy Innovation hubs which would study critical materials for energy, smart grid technologies and systems.

California's Public Utilities Commission approves 450MW PPA between Greengate Power and Pacific Gas and Electric (PG&E).

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/wind/greengate-receives-approval-for-450mw-renewable-energy-ppas.html

Under the terms of the PPAs, the utility will buy up all the RE Certificates associated with the 1400GWh/year expected to be generated by two Greengate projects at fixed prices.

Government of Ontario to reach 10.7GW RE by 2018

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/ontario-targets-10-7gw-renewables-by-2018.html

Europe

European Investment Bank grants USD70mn to Nicaragua

www.finchannel.com/news_flash/Banks/80149_EIB_supports_Nicaragua%E2%80%99s_national_sustainable_electrification_and_renewable_energy_programme/

The loan will help to improve the power transmission line and power generation from RE sources.

MTN and Deutsche Gesellschaft fuer Internationale Zusammenarbeit to manage e-waste

www.waste-management-world.com/index/from-the-wires/wire-news-display/1367005475.html

EU funds USD190,000 to study climate change in Dar, Azerbaijan

www.ippmedia.com/frontend/index.php?l=26419

German Government grants for RE projects in South Africa

www.ae-africa.com/read_article.php?NID=2701

The projects will implement at Two Oceans Aquarium at the Waterfront in Cape Town, and zoos in both Johannesburg and Pretoria, and will save approximately 200 tons of CO₂ emission per year.

UK Government establishes Green Economy Council to advise the Government for low carbon economy

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/uk-government-establishes-green-economy-council.html

European fleet emissions legislation to reduce carbon emissions from light commercial vehicles

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/new-european-fleet-emissions-legislation-to-credit-low-emitters.html

Prime Minister of Jamaica to launch climate change programme

http://go-jamaica.com/news/read_article.php?id=26130

Policy Initiatives - GLOBAL

Latin America

Brazilian Government to provide access to centers of excellence in bioenergy R&D

<http://www.cleanenergyministerial.org/news/spring2011/1.html>

It will address the full chain of bioenergy production and use, with emphasis on improving efficiency and productivity.

Africa

Tricorona to develop CDM project in Senegal

www.skm.se/news/258/

The project will use biomass waste products and reduce 262, 000 tonnes of CO₂ by 2018.

Other Countries

Rural Electrification Authority and Japanese International Cooperation Agency to generate RE

www.businessdailyafrica.com/Rural+firms+roped+into+clean+energy+plan/-/539552/1111702/-/uhakx9z/-/

The Ministry of Climate Change grants \$15,000 to reduce carbon emissions and conserve energy

www.media.tas.gov.au/release.php?id=31712

Australia to introduce carbon price in 2012

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/australia-to-introduce-carbon-price-in-2012.html

Chinese Government pledges to cut carbon emission by 40% by 2020

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/china-set-to-introduce-emissions-trading-scheme.html

India

India can generate 68,000MW power from renewable sources: WB

www.news.in.msn.com/business/article.aspx?cp-documentid=4911502

Construction of 85m3 biogas plant fuelled by cattle dung at Dwaraka Tirumala Temple to generate 12KW/day power

www.deccanchronicle.com/rajahmundry/temple-uses-biogas-power-728

The slurry from biogas plant will use in the temple garden.

Sujana Energy to raise \$100mn to expand hybrid power generation at Hyderabad

www.powergenworldwide.com/index/display/wire-news-display/1367137663.html

The units will be a mix of solar, thermal and biofuel having capacity of 400MW.

Indian Railway to spend 120 crore at four 30tons/day biodiesel plants

www.articles.economicstimes.indiatimes.com/2011-02-06/news/28423691_1_bio-diesel-locomotives-alternative-fuels

The use of biodiesel will earn Rs 2 crore/plant/year railways carbon credit .

Eco Green Fuels Pvt Ltd launches 5000 liters/day biodiesel unit in Bangalore

www.expressbuzz.com/cities/bangalore/city-gets-first-commercial-biodiesel-unit/249960.html

Aquatech and AECOM to implement wastewater facility at Mumbai International Airport

www.business-standard.com/india/news/aquatech-aecom-in-pact-for-wastewater-treatment/426314/

Top 5 states in clean energy production

www.timesofindia.indiatimes.com/city/mumbai/Maharashtra-is-2nd-in-green-energy-production/articleshow/7511574.cms

Tamil Nadu - 4,900MW | Maharashtra - 2,500MW | Gujarat - 1,800MW

Andhra Pradesh - 800MW | Orissa - 300MW

50,000 tonnes of hazardous waste facility to be built in Delhi

www.waste-management-world.com/index/display/article-display/1000316932/articles/waste-management-world/markets-policy-finance/2011/02/Hazardous_Waste_Facility_to_be_Built_in_Delhi__India.html

Toshiba India Private Ltd and NTPC to develop 5MW carbon capture plant in India by 2016

www.bloomberg.com/news/2011-02-11/toshiba-holds-talks-with-ntpc-to-build-carbon-capture-project-in-india.html

North America

Alabama sawmill to install 7MW biopower plant using bark and sawdust

www.biomassmagazine.com/articles/5277/alabama-sawmill-to-produce-biomass-power/

Laidlaw Energy Group to purchase 14MW biopower plant fuelled by forest residue in California

www.biomassmagazine.com/articles/5295/laidlaw-to-buy-california-power-plant

Oneida Seven Generations Corp. to build \$23mn RE facility at Green Bay

www.greenbaypressgazette.com/article/20110219/GPG0101/102190614/Oneidas-pick-new-site-for-biomass-gasification-plant

The plant would convert 150 tons of municipal waste/day into power and reduce the amount of waste going into local landfills by up to 90%.

Business & Markets

Tiga Energy Services and Eco-Merge to fund and operate biopower plants

www.newenergyworldnetwork.com/renewable-energy-news/tiga-energy-services-eco-merge-form-diversified-renewable-jv.html

Solar Acquisition Corp and GNE Ink to produce algae-based biodiesel

www.domesticfuel.com/2011/02/10/solar-acquisition-corp-gne-ink-algae-biodiesel-deal/

Virginia Power plant to switch from coal to biomass in Altavista by 2013

www.wset.com/Global/story.asp?S=14014872

Southern California Gas constructs wastewater biogas plant in Escondido

www.azocleantech.com/details.asp?newsID=14264

Europe

Biomass-fuelled CHP plant in Estonia to produce 110GWh of power & 220GWh of heat annually

www.powergenworldwide.com/index/display/articledisplay/0422790438/articles/powergenworldwide/distributed-generation/cogeneration-chp/2011/02/biomass-fuelled-chp.html

Construction of \$130mn Ineos Bio's Indian River BioEnergy Center in Florida

www.waste-management-world.com/index/display/article-display/1406973227/articles/waste-management-world/waste-to-energy/2011/02/Construction_Starts_at_Ineos_Bio_s_Indian_River_BioEnergy_Center.html

The center will convert yard, vegetative and household wastes into 30mn litres cellulosic ethanol and 6MW gross biopower for the local community.

Archer Daniels Midland invests in 12,000 hectare Brazilian palm production and palm processing plant

www.biodieselmagazine.com/articles/7605/archer-daniels-midland-invests-in-brazilian-palm-production

\$1.2mn biomass boiler fuelled by wood chips at Waterville School

www.onlinesentinel.com/news/waterville-high-school-to-get-biomass-boiler_2011-02-08.html

The boiler will provide a maximum of 80% of the heat load for the high school.

Arizona's sunny, dry weather to lead in producing algae for fuel

www.svherald.com/content/news/2011/02/08/biodiesel-leader-arizona-positioned-lead-producing-algae-fuel

Xebec Adsorption Inc. and Southern California Gas Co. to launch \$2.7mn wastewater treatment facility

www.montrealgazette.com/Quebec+Xebec+Adsorption+teams+with+California+purify+biogas/4245655/story.html

Hawaiian utility seeks 3 to 7mn biodiesel unit for 110MW power plant

www.brighterenergy.org/22130/news/bioenergy/hawaiian-utility-seeks-biodiesel-for-110mw-power-plant/

Casepak to build £21m UK recycling plant

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/casepak-builds-21m-uk-recycling-plant.html

The plant will handle 150,000 tonnes of recyclable material/year and recover 95% of materials by sorting paper, card, plastic, metal and glass.

Van de Groep to build largest biogas plant fuelled by food waste in the Netherlands

www.dutchnews.nl/news/archives/2011/02/largest_biogas_plant_opens.php

The plant will produce 6mn m3 of biogas/year.

Northern Ireland to become a leader in clean energy

www.belfasttelegraph.co.uk/news/local-national/northern-ireland/northern-ireland-to-become-a-leader-in-green-energy-15070914.html

Business & Markets

Britain's Forth Energy plans to build 200MW biopower plant at Leith

www.reuters.com/article/2011/01/31/britain-power-biomass-idUKLDE70U21C20110131

Metso to deliver gasification technology for biogas production to Goteborg Energi AB, Sweden

www.tradingmarkets.com/news/press-release/mxcyy_metso-to-deliver-gasification-technology-for-renewable-gas-production-to-goteborg-energi-ab-sweden-1475120.html

Envitec's subsidiary company to build 635KW biogas plant in Serbia

www.balkans.com/open-news.php?uniquenumber=91690

19MW, £80mn WTE plant in Dagenham, UK

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/london-mayor-inaugurates-80m-uk-waste-to-energy-plant.html

Indonesia, Finland to promote RE

www.greenkampong.com/green_reporter/indonesia-finland-sign-agreement-to-promote-renewable-energy/

Indonesia and Finland have signed an agreement to start a bilateral program to promote utilization of wood-based biomass and agricultural residues in Central Kalimantan and Riau province, Indonesia.

Africa

Abellon CleanEnergy to deliver clean energy to 100,000 homes in Ghana by 2015, creating 25,000 jobs: UNDP

<http://www.bloomberg.com/news/2011-02-24/india-s-abellon-plans-to-create-25-000-biofuel-jobs-in-ghana-undp-says.html>

India-based Abellon CleanEnergy has agreed with Business Call to Action (BCtA) to support the fight against poverty and reduce CO₂ emissions by over 1mn tons by 2015. Under this agreement, Abellon will convert 10,000 hectares of degraded land of Ghana into agricultural land through agro-forestry based energy plantation of bamboo, palmarosa and sweet sorghum that require little to no irrigation, and are not used primarily for food and set up solid biofuel as well as biopower generation facilities.

Petroleum Corporation of Jamaica's Centre of Excellence for Renewable Energy and Caribbean Agricultural Research and Development Institute sign \$10.3mn research agreement for biodiesel pilot project

www.jis.gov.jm/news/hl.s1/26779

The project seeks to assess the viability of producing biodiesel for the automotive industry from locally grown jatropha and castor.

Other Countries

Global Green Power Plc Corp. to build 17.5MW biopower plant in Mina, Iloilo

www.manilastandardtoday.com/insideBusiness.htm?f=2011/february/1/business5.isx&d=2011/february/1

Uganda firm to invest \$160mn in 40MW waste-to-biopower plant

<http://af.reuters.com/article/investingNews/idAFJ0E71D0MM20110214>

The project will reduce GHG by 3mn tons/year.

Biofuel Market to reach 253.2 thousand barrels per day in Asia Pacific by 2020: GBI Research

www.priog.org/11327075-biofuel-market-in-asia-pacific-to-2020.html

Lootah, Practical Energy Solutions bring biodiesel unit to Dubai

<http://biofuelsdigest.com/bdigest/2011/02/18/lootah-practical-energy-solutions-bring-small-scale-biodiesel-to-dubai/>

Finance & Investments

India

Agriculture officer of General Biofuel Inc:Indians to invest in cultivation of Giant King Grass

www.timesofindia.indiatimes.com/home/science/Indians-eyeing-investment-opportunities-in-green-energy/articleshow/7521525.cms

North America

Trojan Battery secures \$100mn to expand into RE

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/trojan-battery-secures-100m-to-expand-into-renewable-energy.html

Europe

Helius Energy receives financing from British banks Lloyds and Royal Bank of Scotland for Scottish 7.2MW biopower project

www.biofuelsandbiomass.energy-business-review.com/news/helius-energy-receives-financing-for-scottish-biomass-project-170211

Albion Ventures to invest upto £57.5mn in environmental sector

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/albion-ventures-triples-green-investment-allocations.html

Ambienta I leads \$15mn investment in plastics recycler MBA Polymers

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/ambienta-i-leads-15m-investment-in-plastics-recycler-mba-polymers.html

Enea to invest in biopower plants and RE sources by 2020

www.wbj.pl/article-53234-enea-to-invest-in-renewable-energy-sources.html?typ=wbj

Africa

CDC Group commits €30mn to Africa, Asia clean energy funds

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/cdc-group-commits-e30m-to-africa-asia-clean-energy-funds.html

India

Recycling of e-scrap in Western India

www.english.ndtv.com/ntdtv_en/ns_life/2011-02-11/055315729046.html

North America

Researchers at Rochester Institute of Technology develop biodiesel from wastewater microalgae

www.dailyindia.com/show/425474.php

Abercrombie launches biodiesel crop research project

www.dvidshub.net/news/65091/abercrombie-introduces-biodiesel-crop-research-project

MFA Oil Company to grow miscanthus for use as a biofuel

www.domesticfuel.com/2011/02/17/farm-based-missouri-oil-company-to-grow-biomass/

Qantas and Solazyme to research on algae-based biofuel

www.tandnews.com.au/2011/02/15/article/Qantas-invests-in-biofuel-research/UETQXJPGTP.html

Researchers at University of Illinois study cow's rumen to find microbial enzymes helpful in biofuel production

www.azocleantech.com/details.asp?newsID=14072

Europe

Metso supply €30mn gasifier to Göteborg Energi AB's 20MW biogas plant fuelled by forest waste

www.waste-management-world.com/index/display/article-display/6348657293/articles/waste-management-world/waste-to-energy/2011/02/Gasification_of_Forest_Wastes_Set_to_Produce_Biogas_in_Gothenburg.htm

The Environment Agency: Use of biodiesel in a small fleet of vehicles reduces 19% CO₂

www.businesscar.co.uk/story.asp?sectioncode=1&storycode=7014&c=2&theme=0

Researchers at Spain to produce biodiesel from corncobs and oat hulls

www.uk.ibtimes.com/articles/20110206/process-creates-diesel-from-biomass.htm

Africa

BioVerde signs an agreement with Spain's Integral Bioenergies Systems to produce biodiesel derived from animal and vegetable oil

<http://www.bloomberg.com/news/2011-02-23/bioverde-to-buy-biodiesel-technology-from-integral-bioenergies.html>

Under the agreement, BioVerde will use technology developed by the Valencia-based group, which converts fatty acid into biodiesel at a rate of up to 98% sorting paper, card, plastic, metal and glass.

Abattoir to produce biofuel from animal waste at Nyongara

<http://thecitizen.co.tz/news/-/8148-abattoir-converts-waste-into-green-fuel>

Climate Change & Environment

India

A roadmap to manage climate change in Himalayan

http://articles.timesofindia.indiatimes.com/2011-02-14/guwahati/28544578_1_climate-change-water-resources-basin

The Kathmandu-based International Centre for Integrated Mountain Development (ICIMOD) and Aaranyak, a biodiversity conservation group, will work on preparing a roadmap for researches on management of climate change impact and water-induced hazards in the eastern Himalayan region.

Conference by IIT decides to take action against the challenge of climate change

www.dnaindia.com/mumbai/report_soon-virtual-centre-to-study-climate-change_1504262

The conference explored options to channelise the knowledge and technology management capabilities of IIT alumni in addressing the developmental solutions through low carbon and climate-resilient development. The IIT alumni climate change initiative has planned to establish a platform of IIT alumni dedicated to developing climate change strategies and actions in the public and private sectors. In next meeting of IIT, the alumni will launch their plan of action.

Students of Dhirubhai Ambani Institute run against climate change

http://articles.timesofindia.indiatimes.com/2011-02-07/ahmedabad/28377723_1_climate-change-infocity-youth

Supported by the Youth for Humanity of Delhi, the run will took off in the morning from Infocity in Gandhinagar to the assembly hall and back to Infocity. Students of various institutes like Gujarat National Law University (GNLU), Pandit Deendayal Petroleum University (PDPU), Nirma University participated in the walk.

Fast Facts

1 *Almost half of Ecuador is subject to environmental protection.*

2 *Indonesia contains the most known mammal species - & the most mammal species under threat.*

(<http://www.nationmaster.com/facts/Environment>)

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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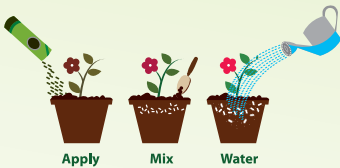
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