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Dear Readers,

The year is ending on a hopeful note, as global decision-makers and diplomats concluded COP16 on 10th December '10 at Cancun, Mexico, with some concrete and spearheading conclusions. The summit was successful in terms of concluding some major agendas, namely, technology and financing support from developed nations to developing nations. This was an unclosed agenda in COP15, which had left developing nations disappointed.

The "Cancun Agreement" has involved the developed as well as developing nations in achieving a low-carbon world economy, through some very crucial initiatives and institutions including fast-start finance of US\$30 billion from developed countries, a Green Climate Fund, Cancun Adaptation Framework, to name a few.

Thus, while there is still a long way to go, COP16 has brought nations of the world together in a unique new year resolution and commitment, which can collectively lead the world towards a clean, green and sustainable future.

At BECI, we take this opportunity to thank you for your support, encouragement and feedback, that have helped us to sustain this initiative of bringing you news of happenings and developments around the globe in bioenergy and the cleantech sector.

Wishing you a very happy and green year ahead !

Thank You.

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frmsendnewsfeedback.aspx](http://www.bioenergyindia.org/frmsendnewsfeedback.aspx)

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Policy Initiatives

India

Biodiesel Association call for promoting biodiesel usage

www.business-standard.com/india/news/biodiesel-assn-for-steps-to-promote-biodiesel-usage/115850/on

Finland: Opportunity for Indian firms in green power

www.thehindubusinessline.com/2010/10/29/stories/2010102951722700.htm

CleanTech Finland – a business affiliation of Finnish clean technology companies - find significant opportunities for Indian companies to associate with Finnish industries towards fulfilling its goal to produce 38% of Finland's energy through RE sources by 2020, which is about 28% at present.

Government helping rice producing states to use husk for electricity

www.dnaindia.com/india/report_govt-helping-rice-producing-states-to-use-husk-for-electricity_1470394

Government is promoting rice-husk based biomass gasifier systems in Bihar, UP, West Bengal, Orissa, Maharashtra, Tamil Nadu and other rice-producing states in association with state Governments and NGOs based on sustainable business model.

Jhuriwala waste management plant approved by Environment Ministry

www.timesofindia.indiatimes.com/city/chandigarh/Jhuriwala-waste-mgmt-plant-gets-environment-ministry-clearance/articleshow/6984244.cms

CEPT students have a plan for Green Belt

www.dnaindia.com/india/report_let-s-build-a-green-belt-cept-tells-ahmedabad-municipal-corporation_1470733

Sri Venkateshwara Hydro Power Projects to set up 12MW solid waste power plant

www.expressbuzz.com/cities/hyderabad/12-mw-solid-waste-power-plant-to-come-up/222346.html

Hyderabad Municipal Corp has agreed to supply 700 tonnes of MSW per day to this project.

Government of Gujarat and Idea Global to fight against global warming

www.dnaindia.com/india/report_idea-global-to-collaborate-with-gujarat-govt-in-battle-against-global-warming_1467374

Britain's Lord Meghnad Desai has expressed his willingness to help Gujarat fight climate change through his business initiative - Idea Global (IG) - the foremost expert in carbon market and energy.

North America

California Energy Commission (CEC) awards grants for biodiesel projects

www.biodieselmagazine.com/article.jsp?article_id=4522

CEC has approved 8 grants leveraging more than \$9.6mn in state funding and \$11.9mn in private funds to advance the manufacturing of electric vehicles and vehicle batteries, add vehicle charging stations, and to encourage the use and distribution of ethanol and biodiesel.

Hawaii utility receives \$110mn loan guarantee from the USDA

www.businessweek.com/ap/financialnews/D9JJAPOG0.htm

Pennsylvania Government announces \$7.9mn grants for 21 projects including biofuel projects

www.biodieselmagazine.com/article.jsp?article_id=4530

Policy Initiatives

Virginia State Corporation Commission permits biopower plant

www2.insidenova.com/news/2010/nov/19/green-biomass-power-plant-planned-novec-ar-665523/; www2.wsls.com/news/2010/nov/22/biomass-power-plant-project-takes-next-step-halifa-ar-670205/

Northern Virginia Electric Cooperative and NOVI Energy has received permission for 49.95MW biopower plant which is expected to provide 6.5% of power requirements by 2014.

Gevo achieves first EPA approval for isobutanol biofuel

www.brighterenergy.org/19312/news/transport/gevo-achieves-first-epa-approval-for-isobutanol-biofuel/

Gevo is preparing to retrofit its 22mn gallons per year ethanol plant in Luverne, Minnesota, to produce 18 gallons a year of isobutanol.

Canadian Government grants \$4mn to set up plant for WTE

www.newenergyworldnetwork.com/renewable-energy-news/by-region/north-america/renewable-energy-project-developer-harvest-power-receives-canadian-government-grant.html

The project will divert up to 27,000 tons of food and yard waste per year from landfills.

Ineos New Planet BioEnergy receives site plan approval from Indian River County for BioEnergy Center

www.m.tcpalm.com/news/2010/nov/10/ineos-new-planet-bioenergy-receives-site-plan-approv/

The facility will produce 8mn gallons of 3rd-generation ethanol and 6MW of power annually from yard waste, MSW, wood and vegetative wastes.

DOE forms EERE Advisory Committee

www.solarindustrymag.com/e107_plugins/content/content_it.php?content.6711

Energy Efficiency and Renewable Energy Advisory Committee will periodically review EERE's portfolio and provide advice to Steven Chu on a variety of areas, including completion of long-range plans, priorities and strategies; program funding; and any issues of specific concern expressed by Steven Chu.

Europe

EC grants €11mn aid to France for a 43MW biomass boiler

www.siliconrepublic.com/green-tech/item/19053-ec-grants-11m-aid-for/

EU team on waste management mission to Italy

www.google.com/hostednews/afp/article/ALeqM5jiW07GXdsTtpKaAQh-Ve5kx0-Wb3w?docId=CNG.c938db7f9a938fbb5ebab6d5dd28878a.121

UK Government opens 2nd round of CCS demo projects up to gas-fired and coal-fired power stations

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/uk-government-opens-ccs-demo-projects.html

E.ON Climate & Renewables (EC&R) and Bionersis begin largest CDM project in Vietnam

www.yourrenewablenews.com/e.on+and+bionersis+announce+the+start+of+operations+for+their+largest+cdm+project+in+south-east+asia_56632.html

The project has capped the Nam Son landfill site near Hanoi, Vietnam, and has installed biogas recovery and flaring equipment to destroy GHG produced by the site. The site serves Hanoi's 3.5mn inhabitants and receives 3,000 tones of domestic waste a day. With a total investment of €6.6mn, the project will abate the equivalent of 4.5mn tons of CO₂ over the next 20 years. The 2nd phase of the project shall include the installation of biogas energy valorization units with the capacity to generate 5 MW of electricity.

Policy Initiatives

City Council awards €10mn contracts for Dublin waste

www.irishtimes.com/newspaper/ireland/2010/11/12/1224283151260.html

BORD NA Móna and Oxigen have secured 6-month contracts to dispose of Dublin's general household waste at landfill sites in Cavan and Kildare.

The Scottish Government publishes Low Carbon Economic Strategy

www.newenergyworldnetwork.com/renewable-energy-news/news-type/policy-news/scotland-eyes-low-carbon-growth.html

The Government will reprioritise £15mn of innovation funding from the Lowlands and Uplands European Structural Funds Programme, which, along with match-funding from the private sector and other public sector funders, could provide £60mn of support for low carbon investments. The Scottish low carbon market is forecast to rise to around £12bn by 2015-2016.

Latin America

New Mexico issues RE transmission bonds

www.newswest9.com/Global/story.asp?S=13545350

The New Mexico Renewable Energy Transmission Authority Board has issued \$50mn in bonds to upgrade the state's transmission system and promote the growth of clean energy.

Africa

Rwanda: Shifting to biodiesel production

www.african-bulletin.com/index.php?option=com_content&view=article&id=673:rwanda-shifting-to-biodiesel-production&catid=1:latest&Itemid=50

Government of Rwanda plans to produce fuels derived from plants such as moringa, jatropha or palm oil to reduce energy dependency on wood and oil.

Nigeria to bring new biofuels policy to diversify energy sources

www.ae-africa.com/read_article.php?NID=2545

The Energy Commission of Nigeria is expected to provide the necessary technical input which could help the West African nation acquire carbon credits under the CDM.

Other Countries

Tomato grower wins \$10000 grant to investigate use of biopower overseas

www.abc.net.au/rural/news/content/201011/s3060295.htm

Turners beach farmer, Marcus Brandsema, has won the TQA Australia global insights award for 2010 for businesses committed to food safety, quality or environmental assurance. The prize money will be used to study biomass gasification for powering greenhouses in New Zealand and India.

Chinese Government commits \$20bn to S. African Government for RE

<http://www.mg.co.za/article/2010-11-19-chinas-sweet-climate-change-deal>

India

Yuken India Ltd-Clenergen Corp to install 4MW/h gasification biopower plant at Bangalore

www.machinist.in/index.php?option=com_content&task=view&id=2872&Itemid=2

Thermax acquires Danstoker to expand into renewables market

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/thermax-acquires-danstoker-to-expand-into-renewables-market.html

Thermax has acquired Danstoker and its German subsidiary, Omnical Kessel to leverage opportunities in the RE sector. The company completed the acquisition at €29.5mn.

Businesses kick-start low carbon collaboration between UK and India

www.guardian.co.uk/sustainable-business/business-collaboration-carbon-uk-india

The UK-India Business Leaders Climate Group (BLCG) - an affiliation of the UK and India's leading businesses - has identified significant business opportunities in India for low carbon goods and services and set out for the first time a 'Charter of Principles' to boost UK-India low carbon investment and trade in both directions.

Under this collaboration, BLCG will launch an online Clean Technology Development Directory to highlight early stage technologies looking for investment, and a Low Carbon Capital Manual to help raise capital and increase public private investment in low carbon projects in India. The group would also launch a low carbon economy summit in India in 2011.

Rs 150 crore green hospital to be built in Gujarat

www.topnews.in/gujarat-gets-its-first-green-hospital-2291628

North America

Pacific BioEnergy plans \$24mn, 350000TPA wood pellet plant in Prince George

www.journalofcommerce.com/article/id41530/

Beaver Wood Energy to build 29.5MW of biomass plant in US

www.benningtonbanner.com/ci_16719447

The plant will also produce 110,000 tons of wood pellets annually.

DTE Energy to convert California coal plant to 44MW biopower plant

www.azocleantech.com/details.asp?newsID=12914

50MW, \$145mn biopower plant to be built in Tyler County, US

www.ketknbc.com/news/biomass-plant-to-be-buit-near-woodville

St. Marys Paper Corp and Ontario Power Authority to build 30MW, \$175mn biomass co-gen plant

www.pulpandpapercanada.com/issues/story.aspx?aid=1000392321

Iberdrola Renewables 26.8MW biomass co-gen plant helps Lakeview forest restoration projects

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/iberdrola-renewables-biomass-plant-helps-lakeview-forest-restoration-projects.html

Business & Markets

Greenleaf Power acquires 28MW biomass power plant

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/greenleaf-power-acquires-second-california-biomass-plant.html

The plant serves the town of Scotia in California. The acquisition includes a long-term contract to sell power to Pacific Gas and Electric. The plant uses mill residuals and diverts landfill waste to generate power and heat provided to the town.

\$30mn pennycress - to - biodiesel plant planned for Alberta with annual capacity of 66mn liters

www.biofuels-news.com/industry_news.php?item_id=2869

Verso Paper unveils \$43mn biomass project

www.mpbnet.com/Home/tabid/36/ctl/ViewItem/mid/3478/Itemid/14269/Default.aspx

El Paso biogas startup has big plans

www.elpasotimes.com/news/ci_16545188?source=most_emailed

A small El Paso startup company plans to make the dairy business as the most environmentally friendly business on the planet. Methane produced at the plant will generate 12MW of electricity. Public Service Co. of New Mexico will buy the biogas produced. 13 dairies along a 6-mile stretch between El Paso and Las Cruces produce about £1.6bn of cattle manure each year.

Waste Connection to supply MSW to Fulcrum Bioenergy's biofuel plant

www.marketwatch.com/story/waste-connections-announces-partnership-with-fulcrum-bioenergy-2010-11-17?reflink=MW_news_stmp

The plant will produce approximately 10.5mn gallons of ethanol annually and generate 16MW of renewable electricity by processing garbage.

Universal Bioenergy Inc and WBH Capital Inc. sign LoI to form JV

www.finance.yahoo.com/news/Universal-Bioenergy-and-WBH-pz-2592771553.html?x=0&v=1

The duo will work to invest up to \$200mn for various acquisitions and projects including patents and licensing technologies in the natural and RE industries through algae based biofuels, green technology products, and WTE projects.

Europe

Slovenia willing to invest in biomass sector

www.dailytimes.com.pk/default.asp?page=2010%5C11%5C27%5Cstory_27-11-2010_pg10_2

Europe to build second generation biofuel production plant

www.waste-management-world.com/index/display/article-display/4931682553/articles/waste-management-world/waste-to-energy/2010/11/Waste_to_Bioethanol_Europe_s_New_Driving_Force.html

REG Bio-Power launches £1mn waste oil processing hub

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/reg-bio-power-launches-waste-oil-processing-hub-in-response-to-strong-demand.html

The new processing facility is at Freedom Farm Recycling in Norfolk & will process 9,000-litres of waste oil per hour.

Sterecycle requires £85mn to develop waste recycling & biomass CHP facility at Harlow

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/uk-waste-management-company-sterecycle-considers-2011-ipo.html

Business & Markets

Latin America

Archer Daniels Midland Co. to build 49.2MMgy biodiesel facility in Brazil

www.biodieselmagazine.com/article.jsp?article_id=4516

NV Energy builds Nevada waste-heat recovery plant

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/nv-energy-builds-nevada-waste-heat-recovery-plant.html

Africa

Clenergen acquires 12,000 acres of land in northern Ghana for biomass energy crops

www.ghanabusinessnews.com/2010/11/05/clenergen-acquires-12000-acres-of-land-in-northern-ghana-for-biomass-energy-crops/

Clenergen has agreed with the Bolewura and Bole Districts to generate over 100,000 tonnes of wood chips per annum by 2014, sufficient to support up to 60MW/h of renewable electricity.

Zorg Ukraine to build 1MW of biogas plants in South Africa and Greece

www.interfax.com.ua/eng/press-release/53007/

In 2011, Zorg Ukraine plans to launch biogas plants in the Baltic region and Central Asia.

EECofuel constructs 120KW-5MW of biomass gasification plant in South Africa

www.azocleantech.com/details.asp?newsID=13132

Camara Education to open e-waste recycling plant in Mombasa

www.businessdailyafrica.com/Corporate%20News/-/539550/1048760/-/11nvwmpz/-/

Other Countries

Neste Oil launches €550mn biodiesel facility in Singapore with capacity of 800000 tons/year

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/neste-oil-launches-singapore-renewable-diesel-facility-in-clean-fuel-effort.html

It is to build similar sized €670mn NExBTL biodiesel plant in Rotterdam, Netherlands.

Huishan Dairy in China to produce 5.6MW of power using cow dung

www.technologyreview.com/energy/26759/?p1=A1

Biofuel to have impact on Angolan economy

www.macauhub.com.mo/en/news.php?ID=10528

Potential for RE in Sri Lanka

www.sundaytimes.lk/101031/BusinessTimes/bt09.html

Finance & Investment

India

U.S. to invest in India's power and RE sectors

www.thehindu.com/business/Economy/article874218.ece

ONGC to spend Rs 500 crore for R&D in RE

www.business-standard.com/india/news/ongc-to-spend-rs-500-cr-for-renewable-energy-rd/116390/on

North America

World Bank approves \$50mn loan for Brazil's national integrated SWM and carbon finance project

www.waste-management-world.com/index/from-the-wires/wire-news-display/1304370385.html

With this loan, the program will close up to 6 existing dumpsites by 2015, construct sanitary landfills and increase the volume of waste disposed in these sanitary landfills by 4,000 tons per day, develop alternative waste treatment facilities and integrate carbon finance in these activities. About \$2.2bn are spent on SWM annually in Brazil, with Caixa Economica Federal as the main player.

World Trade Center Association Los Angeles agrees with Berlin to develop RE projects to attract foreign investment into California

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-storage/california-attracts-foreign-investment-into-renewable-energy.html

Exelon plans near \$5bn investment in US-based RE projects

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/exelon-plans-near-5bn-investment-in-affordable-clean-energy-projects.html

Africa

Blue Sphere to fund WTE plant in Ghana

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/biofuel-biomass/blue-sphere-to-fund-waste-to-energy-plant-in-ghana.html

The plant has the capacity to process up to 300 to 1,000 tonnes of MSW on a daily basis.

Other Countries

ADB invests \$21.6mn in Bhutan RE programme

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/water/adb-invests-21-6m-in-bhutan-renewable-energy-programme.html

China Guodian canvasses \$3bn investment in Hainan province RE

www.newenergyworldnetwork.com/renewable-energy-news/by-technology/energy-efficiency/china-guodian-canvasses-3bn-investment-in-hainan-province-renewable-energy.html

R & D - Technology

India

Researchers at University of Illinois: Grass could be bioenergy crop of the future

www.indianexpress.com/news/grass-could-be-bioenergy-crop-of-the-future-say-indianorigin-scienti.../706047/

Ethanol consumption in India will grow at a CAGR of around 4% during 2009-2018: RNCOS

www.openpr.com/news/150868/Ethanol-Consumption-to-Show-Strong-Growth-in-India.html

Central Salt & Marine Chemicals Research Institute in talks with oil companies to produce jatropha-based bio-diesel

www.business-standard.com/india/news/csmcri-in-talksoil-companies-for-manufacturing-bio-diesel/414242/

Agricultural waste to Biofuel research published in India

www.waste-management-world.com/index/display/article-display/9163349123/articles/waste-management-world/waste-to-energy/2010/11/Agricultural_Waste_to_Biofuel_Research_Published_in_India.html

Two scientists from Sri Paramakalyani Centre of Excellence in Environmental Sciences (SPKCEES) - affiliated to Manonmaniam Sundaranar University - have extracted lignocellulosic ethanol from agro-waste. C. Sathesh Prabhu, a post-doctoral researcher of the centre is working along with A.G. Murugesan, Professor at SPKCEES.

North America

Microbiologist at University of Wisconsin to discuss bacteria for bioenergy

www.news.ucsc.edu/2010/11/harwood-lecture.html

SG Biofuels and Bunge collaborate for R&D to produce biofuel feedstock from jatropha seeds

www.biofuels-news.com/industry_news.php?item_id=2866

University of New Brunswick: New process to turn plant biomass into fuel

www.nbbusinessjournal.canadaeast.com/gleaner/article/1313571

Other Countries

Curbside Recycling company turns cooking grease into biodiesel in DeKalb County

www.championnewspaper.com/news/articles/673recycling-company-turning-cooking-grease-into-biodiesel-673.html

Snapshot - COP16 at Cancun, Mexico

November 29th - December 10th, 2010

COP16

COP16 - the 16th meeting of the Conference of Parties - was held in Cancún, Mexico to continue efforts towards an international deal on cutting carbon emissions. The conference worked on a global agreement to succeed the Kyoto protocol - which came into force in 2005 and commits rich countries to cut their emissions by 2012.

Major conclusions of the conference

- Unanimous agreement to keep temperature rise below 2° c and set a clear timetable to review the global actions on mitigating the effects of climate change.
- A balanced package of decisions -- ‘Cancun Agreements’ -- to create a low-emissions future and support enhanced action on climate change in the developing world.
 - Industrialized countries will develop low-carbon development plans and strategies and assess how best to meet them and to report their inventories annually.
 - A registry to record and match mitigation actions of developing countries for receiving finance and technology support from industrialized countries. Progress reports to be published every two years.
 - Parties meeting under the the Kyoto Protocol agreed to continue negotiations to complete their work within the pre-decided timelines.
 - CDM to take more major investments and technology into environmentally-sound and sustainable emission reduction projects in the developing world.
- Key initiatives and institutions included in the Cancun Agreements
 - US\$30 bn in fast start finance from industrialized countries to support climate action in the developing world upto 2012; US\$100 bn to be raised by 2020.
 - A board with equal representation from developed and developing countries to process for Green Climate Fund.
 - A new “Cancun Adaptation Framework” for better planning and implementation of adaptation projects in developing countries through increased financial and technical support.
 - Boosting actions to curb emissions from deforestation and forest degradation in developing countries with technological and financial support. An agreement introduced to launch concrete actions to preserve forests in developing nations.
 - A Technology Executive Committee and Climate Technology Centre and Network to increase technology cooperation among the nations.

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 | SWM - Solid Waste Management

Abellon CleanEnergy



wins again!

Abellon has won the AREA Green Leadership Award 2010 for Eco-Chulha – an innovative Biopellets-based Community Cooking Stove.



Changing

LIVES

Abellon

Video entry "Freedom" recognized as one of the six "Best of Changing Lives" videos by UNFCCC.

The son of a cotton farmer, in the villages of Gujarat, takes a jolly dip in the lake. Life in these villages has changed with the opening of biomass residue as a potential avenue for additional income generation for the farmer.

The 2-minute film "Freedom" highlights the journey of Indian farmers from independence till today. It showcases the concept of value from waste for energy generation, and its potential to transform the destiny of an entire nation.

To watch this video, please visit www.abelloncleanenergy.com