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Policy Initiatives

India

[Welspun registers India's first dual scale RE program under UNFCCC](#)

The Welspun Renewable Energy Program run by Welspun Energy has been registered with the United Nations Framework Convention on Climate Change (UNFCCC) as a Clean Development Mechanism Programme of Activities (CDMPoA) with effect from November 19, 2012. This will allow the addition of an unlimited number of clean energy projects from India over the PoA lifetime of 28 years.

www.articles.timesofindia.indiatimes.com/2013-08-02/chennai/41006211_1_welspun-energy-carbon-dioxide-united-nations-framework-convention

[Pakistan sugar mills collaborate with Indian companies for biogas boilers](#)

www.dnaindia.com/india/report-pakistan-sugar-mills-collaborate-with-indian-companies-for-biogas-boilers-1871272

[Government triples budget for SWM system for Panaji](#)

www.articles.timesofindia.indiatimes.com/2013-08-17/goa/41420446_1_the-swm-swm-plant-iswm

[The Vijayawada Municipal Corporation to promote 5MW SWM plants](#)

www.deccanchronicle.com/130831/news-current-affairs/article/vmc-eyes-5mw-solid-waste

Europe

[UK sets 'tough new criteria' for biomass industry](#)

As per the new criteria, all generators of 1MW or more using solid biomass, or about 98% of the industry in the country, need to meet the requirement by April 2015 or get cut off from federal support. The industry needs to cut its greenhouse emissions by 72% below a fossil-fuels benchmark by 2020 and 75% by 2025.

www.upi.com/Business_News/Energy-Resources/2013/08/23/UK-sets-tough-new-criteria-for-biomass-industry/UPI-92161377259437/

Other Countries

Pakistan, China to work on biomass project

Guangzhou Institute of Energy Conservation (GIEC) of Chinese Academy of Sciences and the University of Agriculture Faisalabad (UAF) will work together on a biomass project to cope with energy crisis and promote clean energy in Pakistan.

www.tribune.com.pk/story/597086/pakistan-china-to-work-on-biomass-project/

A bilateral agreement between Japan and Indonesia

Japan and Indonesia signed a bilateral agreement to offset emissions under the Joint Crediting Mechanism (JCM), a carbon trading program. The bilateral offset credit mechanism will allow Japanese companies to earn carbon credits by helping Indonesia cut CO₂ emissions.

www.thejakartapost.com/news/2013/08/31/ri-establishes-carbon-deal-with-japan.html

Business & Market

India

Launch of 10MW biopower plant in Mansa

www.hindustantimes.com/punjab/bathinda/biomass-power-plant-launched-in-mansa/article1-1101479.aspx

Sonamar and VayuGrid to develop BioEnergy zones across Haiti

Haiti based Sonamar S.A. and Bangalore based VayuGrid have signed a joint venture agreement for developing BioEnergy Zones across Haiti. These BioEnergy Zones will produce RE through elite biofuel trees developed by VayuGrid and deliver a triple net social, environmental, and economic benefit to Haiti.

The zones will be developed in non-arable land across Haiti to supply biodiesel, cooking briquettes, and high-protein animal feed.

www.moneylife.in/prnews/sonamar-and-vayugrid-to-develop-bioenergy-zones-across-haiti/201308220030PR_NEWS_EURO_ND_enIN201308211744_indiapublic.html

Praj breaks ground on cellulosic demonstration plant in Sangli District, Maharashtra

Praj Industries Ltd., the global process solutions company for bioethanol, alcohol and brewery, water and wastewater and critical process equipment has emerged as the first company in South Asia to set up an integrated 2nd generation (2G) cellulosic ethanol plant.

The plant will operate on different variety of biomass with a capacity of 100 dry metric tons of biomass per day, which includes agricultural wastes such as corn stover, cobs and bagasse.

www.ethanolproducer.com/articles/10119/praj-breaks-ground-on-cellulosic-demonstration-plant-in-india

The Coimbatore Corporation to install a biomethanisation plant at Amma Canteen, Saravanamapatty

The Corporation has designed the plant at a cost of Rs. 9.50 lakh having capacity to produce 25 cubic metre gas using food and vegetable waste, which would be sufficient or little more than sufficient to meet the canteen's requirement.

www.thehindu.com/news/cities/Coimbatore/corporation-to-use-biofuel-to-power-amma-canteen/article5028287.ece

Roselle's LanzaTech partners in India to create new biofuel process

LanzaTech and the Centre for Advanced Bio-Energy, a joint venture between Indian Oil

Corporation, Ltd. and the Indian Government's Department for Biotechnology, will leverage each other's expertise to create a new process for the direct conversion of waste CO₂ into "drop-in" fuels through an acetates-to-lipids pathway.

LanzaTech has developed gas fermentation technology that can directly convert waste CO₂ gases into acetates. The Centre for Advanced Bio-Energy is working to increase the production yield of lipids (oils) by "feeding" acetates to microalgae. The resulting oils can then be refined into fuels using a range of existing processing technologies.

www.dailyherald.com/article/20130814/business/708149863/

Aston University constructs 'Pyroformer – a mobile machine'

The machine uses a thermal treatment process for up to 100 Kg/h of biomass feed. When coupled with a gasifier it will have an output of 400 kW – equivalent to providing power for 800 homes (based on a consumption of approximately 3,000 kWh per home).

www.renewableenergyfocus.com/view/34044/blog-aston-university-seeks-to-transform-life-in-rural-india/

Trial run of biogas plant begins at Palayam

Set up at a cost of Rs 26 lakh, the plant works on the bio-methanization process where organic waste is converted into methane, which in turn is converted into electricity. Initially 250 kg of waste from market will be processed.

www.articles.timesofindia.indiatimes.com/2013-08-01/thiruvananthapuram/40960493_1_biogas-plant-bio-gas-plant-organic-waste

Development of hydrogen powered bus by Tata Motors and ISRO

www.livemint.com/Opinion/pwuNPKYcPK2r1Ps0P5KCKN/Vehicles-may-run-on-hydrogen-in-India-too.html

"Koppala Model" in Bangalore to clean the garbage mess

Under the method "Koppala Model", by the Karnataka State Pollution Control Board (KSPCB), a simple processing unit (SPU) has been installed at the solid waste management campus on the outskirts of the city.

www.dnaindia.com/bangalore/1868943/report-koppal-has-answer-to-bangalore-garbage-mess

North America

Biopower plant in Colorado

The Gypsum biopower plant will produce 11.5MW of electricity per year by burning dead timber collected mostly from the White River National Forest. That main fuel source will be supplemented by other sources, such as wood construction waste that normally goes to the landfill.

www.vaildaily.com/news/7619037-113/plant-biomass-udall-energy

Novec's \$180mn, 50MW biopower plant to begin trial run

www.bioenergy-news.com/index.php?/Industry-News?item_id=6679

Zilkha's 275,000 tons black pellet plant to come online next year

The plant will be able to generate enough power for 50,000 homes per year.

www.bioenergy-news.com/index.php?/Industry-News?item_id=6642

US biofuel producer Inoes Bio brings \$130mn plant online

A JV between Inoes Bio and New Planet Energy, the plant is expected to have an annual output of 8mn gallons of cellulosic ethanol and 6MW of renewable power.

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/biofuel-biomass/us-biofuel-producer-inoes-bio-brings-130m-plant-online.html

Granbio, Solvay plan Brazilian biomass-to-paint chemical factory

The JV will build a plant that will process sugar-cane residues into a chemical used in paints.

www.bloomberg.com/news/2013-08-12/granbio-solvay-plan-brazilian-biomass-to-paint-chemical-factory.html

Alberta has potential to be Canada's biggest biofuel producer

www.edmontonjournal.com/Alberta+potential+Canada+biggest+biofuel+producer/8799403/story.html

US biodiesel production reached 111mn gallons in May: US Energy Information Administration

www.eia.com/articles/2013/08/us-biodiesel-production-reached-record-high-in-may.html

RE Group acquires third Iowan biodiesel facility having capacity of 30mn gallons

www.ecoseed.org/renewables/bioenergy/biodiesel/16871-renewable-energy-group-acquires-third-iowan-biodiesel-facility

NREL, Ecopetrol partner to develop cellulosic process

The Cooperative Research and Development Agreement (CRADA) between NREL and Ecopetrol aims to optimize the conversion process for bagasse (the material left over after the sugars are removed from the sugar cane) and to analyze the economic case for commercial production of biofuel from these materials.

www.ethanolproducer.com/articles/10127/nrel-ecopetrol-partner-to-develop-cellulosic-process

Cool Planet eyes Louisiana for 3 biomass-to-biofuel plants at a cost of \$168mn

www.bioenergy-news.com/index.php?/Industry-News?item_id=6678

Torreno signs MoU to buy biofuels enterprise Dominican Renewables

Torreno Resources, a Canada-based mining exploration and development firm, has signed a

Memorandum of Understanding (MoU) to purchase Dominican Renewables (DRI) of Dominican Republic for around \$2.56m.

www.biofuelsandbiomass.energy-business-review.com/news/torreno-signs-mou-to-buy-biofuels-enterprise-dominican-renewables-280813

Maple Leaf Foods signs \$645mn agreement to sell biodiesel business Rothsay

www.biofuelsandbiomass.energy-business-review.com/news/maple-leaf-foods-signs-645m-agreement-to-sell-biodiesel-business-rothsay-260813

17,000 TPA AD biogas plant at Michigan State University

The facility will produce 2.8mn kWh of electricity each year, which will be used to power some of the campus buildings.

www.waste-management-world.com/articles/2013/08/17-000-tpa-anaerobic-digestion-biogas-plant-at-michigan-state-university.html

Waste No Energy is developing AD plant in Indiana

The facility will handle a mixture of manure and food waste to generate 8.2mn kW of renewable power which will be purchased by Northern Indiana Public Service Company (NIPSCO) and used to power 940 homes.

Around 26 tonnes per day of manure and 125 tonnes per day of waste food, including expired grocery and bakery products, restaurant waste, cheese manufacturing waste and animal proteins,

will be collected for the plant.

www.bioenergy-news.com/index.php?/Industry-News?item_id=6588

New York city considers disposable bag ban to cut waste

New York City Council is considering proposals to impose a 10 cent charge on disposable plastic and paper bags in a bid to cut waste and litter.

The legislation would require retailers to implement the charge on all plastic and paper carry-out bags at check-out counters with the aim decreasing of disposable bag litter and promoting reusable bag use.

www.waste-management-world.com/articles/2013/08/new-york-city-considers-disposable-bag-ban-to-cut-waste.html

Europe

BWSC, PensionDanmark to acquire 40MW, £160mn biopower plant in England

www.biofuelsandbiomass.energy-business-review.com/news/bwsc-pensiondanmark-to-acquire-biomass-plant-in-england-for-160m-140813

All-gas project produces first biomass from algae

The EU-backed All-gas project, the world's largest project to convert algae into low-cost clean

energy using wastewater, has successfully grown its first crop of algae biomass at its site in Chiclana, Southern Spain.

www.renewableenergyfocus.com/view/33927/all-gas-project-produces-first-biomass-from-algae/

Metso to supply biomass-fired heating plant to Elenia Lämpö in Finland

The plant will have a heat output of 10MW and will produce hot water for the district heating network of Turenki. The plant will be fired by locally sourced wood-based biomass, such as forest residue.

www.recyclingportal.eu/topartikel/31146.shtml

Biofuels could increase UK motor costs by £224mn per year

www.rtcc.org/2013/08/15/biofuels-could-increase-uk-motor-costs-by-224-million-per-year/

Moscow. Serbia's NIS invests RSD 100mn in a biodiesel production project

www.focus-fen.net/index.php?id=n313297

Edinburgh distillery wins award for biogas plant

North British Distillery and HydroThane UK have won a major industry award for an AD project - developed in partnership with bioga digester & CHP supplier ENER-G.

The £6mn green technology project has reduced the distillery's CO₂ emissions by approximately 9,000 tonnes per year, which equates to the annual carbon saving benefits of a 7,377 acre forest, or removing 3,000 cars from the road.

www.cospp.com/articles/2013/08/edinburgh-distillery-wins-award-for-biogas-plant.html

Weltec Biopower to construct 2.4MW biogas plant in Limburg

www.biofuelsandbiomass.energy-business-review.com/news/weltec-biopower-secures-contract-to-construct-24mw-biogas-plant-in-limburg-270813

Monsal Technology for 45,000TPA food waste to biogas plant in Essex

www.waste-management-world.com/articles/2013/08/monsal-technology-for-45-000-tpa-food-waste-to-biogas-plant-in-essex.html

30,000TPA Interim Biowaste composting contract for Buckinghamshire

www.waste-management-world.com/articles/2013/08/30-000-tpa-interim-biowaste-composting-contract-for-buckinghamshire.html

Other Countries

Showa Shell to build \$164mn, 49MW biopower plant in Japan

www.bloomberg.com/news/2013-08-07/showa-shell-to-build-49-megawatt-biomass-plant-in-japan.html

Eastern Petroleum plans \$70mn, 20MW biopower plant in Butuan City, Philippines

www.biofuelsandbiomass.energy-business-review.com/news/eastern-petroleum-plans-70m-biomass-plant-in-butuan-city-philippines-130813

Thailand plans to raise biodiesel output target to 7.3 mil liters/d by 2021: Source

Thailand is planning to revise upwards its biodiesel production target to 7.3mn liters/d by 2021, compared with an earlier target of 5.9mn liters/d, under its Alternative Energy Development Plan (2012-2021), a source at the Energy Policy & Planning Office told Platts.

www.platts.com/latest-news/oil/singapore/thailand-plans-to-raise-biodiesel-output-target-27287876

Malaysia may set up commercial-scale bioethanol plant in the region

www.thestar.com.my/Business/Business-News/2013/08/02/Malaysia-eyes-regions-first-commercial-biomass-ethanol-plant.aspx

CEFC announces 2 bioenergy deals

www.businessspectator.com.au/news/2013/8/2/renewable-energy/cefc-announces-2-bioenergy-deals

Australian egg company to install \$2.86mn biogas digester

Installing biogas digesters would yield enough power to support the energy needs of more than 8,500 average family homes. In addition to that, the plant will reduce carbon emissions of up to 1,000 tonnes per annum, through reduced electricity and LPG usage and reduce the site's methane emissions by over 6,000 tonnes CO_{2e} per annum.

www.bioenergy-news.com/index.php?/Industry-News?item_id=6589

Finance & Investment

North America

[Zilkha lands financing of \\$18.8mn to convert Alabama plant to Black Pellets](#)

The plant would have an annual capacity of 275,000 tons.

www.biomassmagazine.com/articles/9309/zilkha-lands-financing-to-convert-alabama-plant-to-black-pellets

[DoE invests in algae, biomass supply chain](#)

To boost the productivity of sustainable algae while reducing capital and operating costs, the US DoE has announced more than \$22mn investment. Of the investment, nearly \$16.5mn will be split between four algae projects; two located in California, one in Hawaii and another in New Mexico.

www.biomassmagazine.com/articles/9348/doe-invests-in-algae-biomass-supply-chain

[Monsanto, Vermeer share in \\$6mn federal biomass grant](#)

www.businessrecord.com/Content/Energy---Utilities/Energy---Utilities/Article/Monsanto--Vermeer-share-in--6M-federal-biomass-grant/183/930/59670

[SCS Engineers receive \\$14.8mn landfill gas contract in California](#)

www.waste-management-world.com/articles/2013/08/14-8-million-landfill-gas-contract-for-scs-engineers-in-california.html

[Heliae raises new funding to expand commercial facility to produce algae products](#)

Heliae, a spinout from Arizona State University, has raised \$28.4mn in funding from existing and new investors. The funding will be used to support the operation and expansion of Heliae's first commercial facility of producing high products from algae in Gilbert, Ariz.

www.azom.com/news.aspx?newsID=37810

[Agriculture and Energy Departments announce new investments to drive innovations in biofuels and biobased products](#)

As part of the Obama Administration's all-of-the-above strategy to enhance US energy security, reduce America's reliance on imported oil and leverage our domestic energy supply, while also supporting rural economies, the USDA and Energy has announced a \$41mn investment in 13 projects that will drive more efficient biofuels production and feedstock improvements.

www.environmental-expert.com/news/agriculture-and-energy-departments-announce-new-investments-to-drive-innovations-in-biofuels-and-bio-389978

N.C. university wins grant for biofuel, biochar project

Researchers at Appalachian State University received \$45,000 from the North Carolina Agriculture Foundation to economically convert biomass to biofuel and biochar.

www.biomassmagazine.com/articles/9281/n-c-university-wins-grant-for-biofuel-biochar-project

Hawaii BioEnergy to get \$5mn federal grant for Kauai biofuels project

The plant will produce algae oil through a photosynthetic open pond system. The project aims to demonstrate pre-processing technologies that reduce energy use and the overall cost of extracting lipids and producing fuel intermediates.

www.bizjournals.com/pacific/news/2013/08/01/hawaii-bioenergy-to-get-5m-federal.html

Canada funds algal bio-refinery to convert Tar sands emissions

The Algal Carbon Conversion Pilot Project – a partnership among the National Research Council of Canada, Canadian Natural Resources Limited and Pond Biofuels – will result in the construction of a unique, \$19mn bio refinery facility in Alberta to reduce GHG emissions from oil production in the Alberta tar sands.

www.ens-newswire.com/2013/08/09/canada-funds-algal-biorefinery-to-convert-tar-sands-emissions/

Detroit RE completes major financing of \$55mn

The financing will support the company's expanding investment in the environmental, RE sector.

www.bioenergy-news.com/index.php?/Industry-News?item_id=6640

Europe

Foresight, GIB investment in biomass CHP plant

Foresight Group and the UK Green Investment Bank plc have announced the investment of £20mn into the construction of the Evermore Renewable Energy 15.8MW wood fueled CHP station to be built on a 10-acre site in Derry/Londonderry at the Londonderry Port and Harbour Commissioners land at Lisahally, in Northern Ireland.

The plant will generate electricity for more than 25,000 homes a year and save 2mn tonnes of wood from going to landfill. It is expected to slash GHG emissions by around 3.7mn tonnes.

www.biomassmagazine.com/articles/9284/foresight-gib-investment-in-biomass-chp-plant

Additional investment into biogas operations by PDM

PDM Group, a UK food product manufacturer, has revealed its plans to spend over £90mn on AD, recycling and food processing facilities over the next 18 months.

In addition to the £44mn investment into AD facilities in Widnes and Dagenham, PDM will spend of £30mn to upgrade its animal by-product rendering operations and £18mn on three pet food processing facilities. The plant in Widnes will see the addition of three CHP gas generators to produce electricity, while the heat will be used on-site and by nearby businesses.

www.bioenergy-news.com/index.php?/Industry-News?item_id=6576

Other Countries

Eastern Petroleum Corp. to build \$70mn biopower plant in Butuan City

The plant would have a capacity of 20MW and would use wood chips as its feedstock.

www.philstar.com/business/2013/08/12/1079221/eastern-pet-unit-build-70-m-biomass-plant

Lignol Energy agrees \$0.9mn investment in Australian biofuel plant

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/biofuel-biomass/lignol-agrees-0-9m-investment-in-australian-biofuel-plant.html

Research & Development

India

[5-year research MoU to further pongamia development in India](#)

Tree Oils India Ltd. has signed a Memorandum of Understanding (MOU) with the Central Research Institute for Dryland Agriculture to conduct collaborative research over the next five years for developing an alternate farming system focused on low-cost, integrated and sustainable agriculture in dry lands, producing renewable energy and improving rural livelihoods.

www.biodieselmagazine.com/articles/9264/5-year-research-mou-to-further-pongamia-development-in-india

[India embarks on algae bio fuels research](#)

India's Centre for Advanced Bio-energy Research, a JV between Indian Oil Company and the Government's Department of Biotechnology has established a partnership to create acetates from waste CO₂. The acetates will be 'fed' to microalgae to increase the production yield of lipids, an area of research at the Centre. The lipids can then be converted into biofuels.

www.steeltimesint.com/news/view/india-embarks-on-algae-bio-fuels-research

[College gets AICTE grant for RE research](#)

The AVC College of Engineering, Mannampandal, has received a grant of Rs. 25 lakh under the Research Promotion Scheme (RPS) of All India Council for Technical Education (AICTE), New Delhi, for establishing and carrying out research activities in the field of RE.

The grant has been released to conduct research in power generation from biomass gasification of garden waste with nano particles for three years.

www.thehindu.com/news/national/tamil-nadu/college-gets-aicte-grant-for-renewable-energy-research/article5071334.ece

North America

[Microbes harnessed to make isobutanol for biofuels](#)

According to the research done at University of Michigan, the combination of a bacterium and a fungus can turn waste plant material into isobutanol for use as a biofuel.

www.digitaljournal.com/article/357210

[ALCF scientists look to nature to develop biofuel catalysts](#)

Scientists working at the Argonne Leadership Computing Facility are looking to nature's catalysts,

enzymes - to convert biomass into renewable fuel.

www.biomassmagazine.com/articles/9376/alcf-scientists-look-to-nature-to-develop-biofuel-catalysts/

New enzyme discovery could lead to cheaper cellulosic fuel

An international team of scientists from the Energy Department's Great Lakes Bioenergy Research Center, has discovered a new plant enzyme that could eventually lead to a breakthrough in the production of cellulosic bio-based fuels made from crop wastes, as well as chemicals and plastics.

Caffeoyl Shikimate Esterase (CSE) is an enzyme whose genes can be switched off to control the formation of lignin. Lignin is a lattice-like structure of cells that makes plants rigid. It is also a tough substance that makes it difficult to extract sugar from agricultural wastes to make biofuels. As such, it has been a roadblock to commercial production for years.

www.eenews.net/stories/1059986088

Europe

Researchers from European Bioenergy Research Institute develop bioenergy technology to process waste in the UK

www.offshore-publication.com/index.php/subsea/1243-power-from-waste-sources-34383545

Belgian scientists develop genetically modified yeast strains increasing their ability to turn waste into biofuel

www.eandt.theiet.org/news/2013/aug/gmo-yeast-biofuel.cfm

Climate & Environment Change

India

India to form Innovation center to study climate change

The Government has proposed to set up the National Institute for Climate Change Studies and Actions (NICCSA) under Ministry of Environment and Forests with a view to carry out analytical studies of scientific, environmental, economic development and technological issues related to climate change.

www.kuna.net.kw/ArticleDetails.aspx?id=2326842&language=en

North America

President Obama announces climate change strategy for second term

Echoing the theme of his second inaugural address five months earlier, President Obama outlined a second-term climate change strategy to meet "a moral obligation to future generations to leave them a planet that is not polluted and damaged."

www.lexology.com/library/detail.aspx?g=08e95ff7-f3d8-4a36-88ac-75c65a9b8b2c