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Dear Readers,

India is a cricket crazy nation, and the IPL finds the country glued to television sets and radios, if not physically present at the stadium to watch the action live.

The IPL, however, became an unlikely source of inspiration for an environmental activist, who came up with the idea of handling waste management as a sport. Thus, was born the “Clean Cities Championships,” which kicked off in the city of Warrangal, Andhra Pradesh recently. The city hosted 386 teams from 57 municipalities across the northern half of Andhra Pradesh – the largest state in south India and the fourth largest in the country – competing for the ‘best performance’ trophy in collection and disposal of household wastes.

In a country that generates 42 mn. tonnes of waste/ annum, 90% of which is in the form of open dumping, management and utilization of waste is a mammoth problem. At the same time, effective collection and utilization of waste would also present a significant opportunity for the country in terms of value from recycling and energy generation. While civic bodies put in their efforts, what is also required is larger participation and ownership from the man on the street and local communities.

One of the largest community based environmental campaigns globally is “Clean Up the World,” an initiative that engages an estimated 35 million volunteers in 130 countries each year, that carry out community-based activities to address local environmental issues. Clean Up the World is held in partnership with the United Nations Environment Programme (UNEP) and operates under the mandate “Our Place...Our Planet... Our Responsibility. “

While our local governments continue their efforts, each of us, as individuals and members of our respective communities can take ownership for effectively managing our household/institutional waste, and supporting the implementation of civic waste management initiatives. Let’s join hands to make our cities clean and green.

Thank You.

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

Policy Initiatives

INDIA

Margao Municipal Council to introduce door-to-door waste collection service

www.articles.timesofindia.indiatimes.com/2012-10-27/goa/34764483_1_waste-collection-door-to-door-garbage-hotel-waste

Punjab Government to unveil new non-conventional energy policy

Punjab will soon introduce a new non-conventional energy policy to meet the increasing demand for clean energy and reduce the burden on conventional resources.

Key highlights of policy:

- The highest power tariff of Rs. 5.83 per unit would be given on purchasing bio-power
- 100% entry tax exemption to the project holder in respect of all supplies made by setting up of the new RE projects
- VAT exemption on equipments required for RE projects

www.business-standard.com/generalnews/news/punjab-to-unveil-new-non-conventional-energy-policy/66468/

India, US explore the possibilities for co-operation in RE sector

www.smetimes.in/smetimes/news/indian-economy-news/2012/Oct/01/india-us-to-boost-cooperation-to-reduce-power-cuts627933.html

India, World Bank and Himachal Pradesh sign \$100mn loan agreement

The agreement has signed to support the mountain State in its move towards an environmentally sustainable model of economic growth.

www.indiaeducationdiary.in/Shownews.asp?newsid=15736

NORTH AMERICA

Sysgaz Inc. receives funding from Canadian Government for biogas project

Sysgaz will use funding to evaluate the quantity and quality of reclaimable biogas from the Dolbeau-Mistassini landfill that could be converted into biofuel. If the evaluation proves conclusive as to the profitability of the venture, the site could be put into operation in 2013, thus leading to the development of a new RE industry in the Maria-Chapdelaine Regional County Municipality and the potential for diversifying and strengthening the local economy.

www.biomassmagazine.com/articles/8131/sysgaz-wins-government-contribution-for-biogas-project

CEC awards \$4.6mn to ZeaChem to develop biofuel plant in Northern California

<http://www.sustainablebusinessoregon.com/articles/2012/10/zeachem-up-for-46m-award-from.html>

Policy Initiatives

EUROPE

EC to cap % of 1st generation biofuel contribution to RE transport targets

www.atwonline.com/eco-aviation/article/ec-cap-food-based-biofuel-contribution-renewable-energy-transport-targets-1028

OTHER COUNTRIES

Australian State Government grants USD 2.01mn to Aurora Algae

The company will use grant to advance the company's algae-based biomass production at its demonstration facility in Karratha, Western Australia. National policy on climate change to be approved in Pakistan

www.fis.com/fis/worldnews/worldnews.asp?monthyear=&day=1&id=55754&l=e&special=&ndb=1%20target=

Business & Markets

INDIA

36MW biopower plant to be set up in Punjab

www.worldofbioenergy.com/biomass_news/biomass_power_project_of_36_mw_proposed_to_be_set_up_in_india.html

Sea6 Energy Pvt. Ltd. raises \$655,500 to develop green algae biofuel

www.biofuelsdigest.com/bdigest/2012/10/01/indias-sea6-energy-raises-655500-to-develop-green-algae-biofuel/

Punjab Biomass to add significantly to biomass plant portfolio

According to the Bloomberg reports, Punjab Biomass Power to establish a number of rice straw-fired biomass plants with a total capacity of 96MW by 2017. In the first phase it has plan for the north of Punjab state. In addition to this plant, Punjab has seven more 12MW projects in the pipeline, all of which will sell power to Punjab State Power Corp.

www.bioenergy-news.com/index.php?/Industry-News?item_id=5522

www.bloomberg.com/news/2012-10-17/punjab-biomass-plans-96-megawatts-of-capacity-by-2017.html

Tata Power to install biogas units in Mundra

The installed biogas plants will help 40 villages surrounding its Mundra Ultra Mega Power Project (UMPP), under the initiative 'Project Annapurna'.

www.business-standard.com/india/news/tata-power-to-install-biogas-units-in-mundra-/189277/on

Tihar jail to use its biodegradable waste to power its kitchens, bakery

The Tihar jail administration and Mumbai-based Bhabha Atomic Research Centre will set up two bio gas plants. The plants will use produced biodegradable waste inside the jail.

Once ready, the biogas plants will produce fuel to replace compressed natural gas in Tihar's kitchens that feed around 1200 inmates on an average.

www.hindustantimes.com/India-news/NewDelhi/Tihar-jail-to-use-its-biodegradable-waste-to-power-its-kitchens-bakery/Article1-941303.aspx

Credai in pact with IMA for biomedical waste disposal

The pact has been signed to collect biomedical waste from apartment complexes and to treat it at the Indian Medical Association's Goes Eco-friendly (IMAGE) plant at Kanjikode.

www.thehindubusinessline.com/news/states/credai-in-pact-with-ima-forbiomedical-waste-disposal/article4005880.ece

17,536 MW of crop-waste power potential in India

www.cleantechnica.com/2012/10/22/17536-mw-of-crop-waste-power-potential-in-india/

ABLE roadmap to make biotech \$100bn industry by 2025

www.thehindubusinessline.com/industry-and-economy/article3951657.ece

India to collaborate with Swiss in RE sector

www.thehindubusinessline.com/industry-and-economy/india-to-collaborate-with-swiss-in-renewable-energy-sector/article4013829.ece?homepage=true&ref=wl_home

India seeks Israeli expertise in RE sector

www.thehindubusinessline.com/industry-and-economy/economy/india-seeks-israeli-expertise-in-renewable-energy-sector/article4028234.ece?homepage=true&ref=wl_home

NORTH AMERICA

Green Energy to construct a 6.7MW biomass to energy facility near Koloa The plant will use wood chips as a fuel.

www.thegardenisland.com/news/local/kaua-i-biomass-plant-receives-m-in-financing/article_720f5692-1448-11e2-a058-0019bb2963f4.html

Business & Markets

USDA awards \$10mn to Pennsylvania State University to develop biomass supply chains

www.equities.com/news/headline-story?dt=2012-10-19&val=614707&cat=material

Paseo Biofuels to increase biodiesel production capacity to 40% at Kansas city plant

www.azocleantech.com/news.aspx?newsID=17408

DoE and Xavier University to launch new research project on bioethanol production

www.pia.gov.ph/news/index.php?article=1471350972206

Biodico and Navy sign renewable fuel agreement

They will jointly develop a renewable fuel and energy technologies which can use at U.S. Naval and Department of Defense facilities worldwide.

www.sacbee.com/2012/10/19/4924625/biodico-and-navy-sign-renewable.html

Raizen Group - logen to develop a biomass to ethanol facility in South America

www.bioenergy-news.com/index.php?Industry-News?item_id=5546

DoE awards \$1mn to CSU's Engines and Energy Conversion laboratory for improve cookstove

www.ncbr.com/article/20121025/NEWS/121029968

Clear Lam, Toyota Tsusho partner on bio-based PET products

www.packagingdigest.com/article/522625-Clear_Lam_Toyota_Tsusho_partner_on_bio_based_PET_products.php

UK renewable production increases 2.7% in 2011

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/uk-renewable-production-increases-2-7-in-2011.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=d86c49c101-TEST_NewNet_Clean_Energy_Investor&utm_medium=emailhttp://www.times.co.zm/?p=14340

EUROPE

A 1.99MW of agriculture CHP biopower plant in Central Poland

The plant would produce 17,000MW of heat and 16,800MW of power an hour.

www.webwire.com/ViewPressRel.asp?ald=162120

www.bioenergy-news.com/index.php?Industry-News?item_id=5474

Biomass co-generation plant developed in Cluj

www.thediplomat.ro/articol.php?id=3767

Estover Energy Ltd. to develop two biomass CHP plants in England

The facility will utilize low-grade wood - unsuitable for sawmills and timber production as feedstock to produce 25MW of power.

www.biomassmagazine.com/articles/8123/estover-energy-plans-development-of-2-biomass-chp-plants

Business & Markets

Waste wood CHP biomass plant to be built in Nottinghamshire

The plant will process around 25,000 tonnes of waste wood to generate 1.6MW of electricity by offsetting 25,000 tonnes of CO₂ per year.

www.scrap-ex.com/waste_to_energy/2012/waste_wood_biomass_plant_planned_nottinghamshire.html

Dalkia opens France's biggest biomass co-generation plant

The plant will use tree bark and fines from the pulp-screening process as a fuel.

www.equities.com/news/headline-story?dt=2012-10-04&val=560564&cat=energy

Drax Group - UK's largest coal power plant to be converted to a biomass plant

www.oilprice.com/Energy/Coal/UKs-Largest-Coal-Power-Plant-to-be-Converted-to-a-Biomass-Plant.html

Polenergia to switch on 11MW of biogas CHP plants in Poland by 2016 - Wnp.pl

www.cospp.com/news/2012/10/19/polenergia-to-switch-on-11-mw-of-biogas-chp-plants-in-poland-by-2016-report.html

The biogas plant opens in Vrbas

The plant will produce from 8.5 to 9.5mn kW of electricity and heat annually.

www.balkans.com/open-news.php?uniquenumber=160284

Big Dutchman AGRO constructs Russia's largest biogas plant

The plant generates 2.4MW of electricity using maize silage, slurry and slaughterhouse waste every day.

www.thepigsite.com/swinews/31320/big-dutchman-agro-constructs-russias-largest-biogas-plant

Neste Oil opens first European biofuel-from-waste pilot plant

www.energyefficiencynews.com/articles/i/5492/?cid=3

UK renewable production increases 2.7% in 2011

www.newenergyworldnetwork.com/investor-news/renewable-energy-news/by-technology/energy-efficiency/uk-renewable-production-increases-2-7-in-2011.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter&utm_campaign=d86c49c101-TEST_NewNet_Clean_Energy_Investor&utm_medium=email

Innovative renewable bioenergy business competition launched in West Midlands

www.azocleantech.com/news.aspx?newsID=17373

AFRICA

Kenya's RE sector attracts Foreign Interest

www.allafrica.com/stories/201210040049.html

Recycle shoes, clothing, accessories at Puma stores

The Puma 'Bring Me Back' programme, has launched in South Africa, co-operation with global recycling company I:CO to encourage recycling and reusability of sport lifestyle products among consumers. The company has installed recycling bins in its stores and outlets for customers to return used shoes, clothing and accessories of any brand

www.bizcommunity.com/Article/196/457/82950.html

Business & Markets

Morocco seeks to be green energy leader

www.upi.com/Business_News/Energy-Resources/2012/10/10/Morocco-seeks-to-be-green-energy-leader/UPI-79231349895922/

The Development Bank of Southern Africa approves R9.6bn for RE projects

The loan will support the establishment of the RE sector, representing 896.5MW of the 3725 national target announced by the DoE

www.allafrica.com/stories/201210230686.html

OTHER COUNTRIES

Thailand's Bangchak Petroleum to invest USD\$40mn in biodiesel projects

The biodiesel plant will expand capacity to 600,000 liters per day.

www.biofuelsdigest.com/bdigest/2012/10/08/thailands-bangchak-petroleum-to-invest-usd40m-in-biodiesel-projects/

Finance & Investments

NORTH AMERICA

DoE grants \$15mn to Arizona State University for algae fuel research

www.mnn.com/money/sustainable-business-practices/blogs/asu-receives-15-million-for-algae-alternative-fuel-resear

Texas A&M AgriLife wins NSF grant for algae research

www.biomassmagazine.com/articles/8079/texas-am-agrilife-wins-nsf-grant-for-algae-research

OTHER COUNTRIES

IDB launches RE fund

The \$50mn fund will invest in Kazakhstan and Central Asia and will finance agricultural projects.

www.cpifinancial.net/news/post/15954/idb-launches-renewable-energy-fund

RE investments grow globally: Report by Worldwatch Institute

According to the report, new investments in RE and fuels reached USD 257bn worldwide last year, with India logging the sharpest surge and China attracting the largest amount at USD 52.2bn

www.articles.economicstimes.indiatimes.com/2012-10-11/news/34387307_1_renewable-energy-usd-global-investment

INDIA

Union of Concerned Scientists: 680mn tons of US biomass available by 2030

www.ethanolproducer.com/articles/9209/ucs-680-million-tons-of-u-s-biomass-available-by-2030

EUROPE

Dead stranded whale to be turned into biofuel near Suffolk

www.telegraph.co.uk/earth/wildlife/9589496/Dead-stranded-whale-to-be-turned-into-biofuel.html

Iowa Engineers convert cellulosic biomass to synGas using pyrolysis-gasification

www.greenoptimistic.com/2012/10/26/iowa-engineers-convert-cellulosic-biomass-to-syngas-using-pyrolysis-gasification/

New Brunswick has untapped biomass to energy potential: Report by Université de Moncton

According to the report, the total annual energy potential that would be available from residual forest biomass and bark is approximately 58.4PJ (Petajoules). When converted into electricity and heat, the residual biomass and bark could be used to generate 463MW of electricity and more than 1100 MW of heat that could cover 17 regions in the province

www.solidwastemag.com/news/new-brunswick-has-untapped-biomass-to-energy-potential-says-study/1001801519/

LATIN AMERICA

The Ministry of Fisheries and Aquaculture (MPA) and Petrobras sign an agreement

Under this agreement, they will investigate and make biodiesel from fish waste raw material.

www.fis.com/fis/worldnews/worldnews.asp?monthyear=&day=26&id=56432&l=e&special=&ndb=1%20target=

Ensyn, Fibria Celulose form JV to produce cellulosic liquid fuels

The alliance includes the establishment of an equally-owned joint venture for the production of cellulosic liquid fuels and chemicals in Brazil besides a \$20m equity investment in Ensyn by Fibria

www.energy-business-review.com/news/ensyn-fibria-celulose-form-joint-venture-to-produce-cellulosic-liquid-fuels-051012

Climate Change & Environment

INDIA

Indian farming getting resistant to climate change : Mr. Sharad Pawar

www.business-standard.com/india/news/indian-farming-getting-resistant-to-climate-change/pawar/190359/on

NORTH AMERICA

Climate change contributed to a 5 fold increase in weather-related natural disasters in North America over the past three decades: Munich Re (the world's biggest reinsurer)

www.smh.com.au/environment/climate-change/north-america-sees-biggest-jump-in-climate-changerelated-disasters-munichre-20121018-27s8u.html

UNEP to help Afghanistan combat effects of climate change

UNEP would teaming up with the country's Government to implement a \$6mn initiative that aims to operate in vulnerable communities and shore up the ability of Afghan institutions to independently address risks posed by changes to the climate

www.indiablooms.com/EnvironmentDetailsPage/2012/environmentDetails121012b.php

OTHER COUNTRIES

Palm oil production creates high GHG emissions: Study published in Nature Climate Change journal

Key highlights of the study:

- Palm oil expansion is projected to release more than 558mn metric tons of CO₂ to the atmosphere in 2020, more than all of Canada's fossil fuel emissions.
- Palm oil expansion in Borneo alone is projected to contribute 18% to 22% of Indonesia's 2020 CO₂e emissions.
- Increase in deforestation for the development of oil palm plantations.

www.domesticfuel.com/2012/10/12/palm-oil-production-creates-high-ghg-emissions/
www.phys.org/news/2012-10-scientists-oil-palm-plantations-carbon-rich.html

Climatic conditions make Abu Dhabi ideal for commercial production of Biofuels from algae

www.ameinfo.com/climatic-conditions-abu-dhabi-ideal-commercial-317010

Bananas may soon become staple food due to global warming: Researchers from Consultative Group on International Agricultural Research (CGIAR)

www.business-standard.com/generalnews/news/bananas-may-soon-become-staple-food-due-to-global-warming/74395/

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



Biomass Based Continuous Cookstove for heavy duty cooking applications

The Biomass Based Continuous Cookstove is uniquely designed for large scale cooking applications, using a clean, economical, and eco-friendly fuel. It is an energy efficient appliance that is economically beneficial, easy to use and safe, while helping to protect the environment.



Ideal for Farsan, Namkeen and Milk items Preparation



Also Available with Customized Vessel Support (for 24" & 28" Kadai)

Stove Size: 46.08" x 26.16" x 31.08"

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