



*The Future is **Green...***

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BIO-ENERGY COUNCIL OF INDIA
704-Shitiratna, Panchwati, Ellisbridge
Ahmedabad - 380006, India.
Tel : +91 79 66309332 Fax : +91 79 6630 9334
W : www.bioenergyindia.org
E : info@bioenergyindia.org

Supported by

Abellon CleanEnergy

W : www.abelloncleanenergy.com
E : abellon@abelloncleanenergy.com



Dear Readers,

While we are trying hard to fight Climate change and global warming on all fronts, the problems plaguing the world always seem to be one step ahead of us, and the sense of urgency is changing into one of alarm at the future of mankind. The most recent reminder of just how critical the situation is comes from the extended winters and worst ever cold to have hit Europe this year, which brought the continent to a stand still.

In the face of calamities like these, any effort to make amendments, while commendable, seems minuscule. However, these are drops in the ocean, which can some day make the critical difference between survival and extinction, and the only way forward would be to continue doggedly our efforts on the path we have chosen.

This is a time for humanity to rise as one, take accountability for its indebtedness to nature, and commit to contribute in every which way to reverse and curtail the damage we have wreaked over generations.

Imagine a world of 7 billion people...each person creating his own small puddle to add to the ocean! There is indeed hope at the end of the tunnel...

Thank You.

Please post your feedback on
Bio-Energy Times @
[http://www.bioenergyindia.org/
frmsendnewsfeedback.aspx](http://www.bioenergyindia.org/frmsendnewsfeedback.aspx)

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Policy Initiatives

INDIA

Plan for zero waste in residential habitats

The government is working towards achieving zero waste stage in residential habitats in urban and rural areas. The Cabinet to provide subsidy to residential flats to set up waste treatment units. Waste treatment would become obligatory by law or guidelines in future.

www.thehindu.com/news/states/kerala/article2763906.ece

Firm to prepare managing waste guidelines

www.nst.com.my/streets/central/firm-to-prepare-managing-waste-guideline-1.27384

Azerbaijan, India discuss cooperation on renewable energy

Azerbaijan's Ambassador to India has met the minister for New and Renewable Energy, Shri. Farooq Abdullah, to discuss cooperation between the two countries.

www.news.az/articles/politics/52171

Centre accepted recommendations of TRAI to reduce carbon emissions in the telecom sector

TRAI has guided that at least 50% of all rural towers and 20% of urban towers should use RE sources by 2015. This should be upgraded to 75% of rural and 33% of urban cell sites by 2020. All telecom products, equipment and services have to be cleared by the Telecom Engineering Centre and have "Green Passport" certification by 2015.

www.mydigitalfc.com/news/5-carbon-emission-cut-target-set-telcos-172

CEPT to develop guidelines for Indian cities to adapt to climate change

Faculties of CEPT University will be conducting 2-year-long studies in three thematic areas - which include impact of climate change on communities, rainfall and flooding patterns in Ahmedabad and Surat and impact of climate change on coastal areas, before they come up with the recommendations.

www.articles.timesofindia.indiatimes.com/2012-01-17/ahmedabad/30635154_1_climate-change-environmental-planning-and-technology-global-warming

AMC adopts green methods to bring down energy consumption

The AMC has decided to construct all its new projects as green buildings, convert its main energy consuming establishment to solar powered ones and change all the city street lights from high pressure sodium vapour lamps to energy efficient LED lights.

www.articles.economictimes.indiatimes.com/2012-01-23/news/30655563_1_energy-consumption-amc-energy-savings

Mysore City Corporation to set up biogas plant with Swedish

The City Corporation is planning to set up a biogas plant in the city to convert waste into a fuel that can be used in vehicles. Sweden has reached an agreement with the Union Government to assist eight cities in India in various environmental related projects.

www.eai.in/club/users/pmaltenergy/blogs/11164

Germany eyes tie-up in RE with India

www.ibnlive.in.com/news/germany-eyes-tieup-in-renewable-energy/217856-60-120.html

Policy Initiatives

NORTH AMERICA

US announces climate change strategy

The draft strategy includes descriptions of current and projected impacts of climate change on the eight major ecosystems of the United States, the fish, wildlife and plant, species those ecosystems support and the vital ecosystem services they provide.

www.upi.com/Science_News/2012/01/19/US-announces-climate-change-strategy/UPI-69061327029803/?spt=hs&or=sn

California adopts new emissions limits for cars, trucks

The program envisions that 1.4mn, or one in seven new cars sold in California in 2025 will run on electricity or hydrogen and produce no emissions, or run on electricity and gasoline to produce much lower emissions than conventional gasoline-fueled cars.

www.foxbusiness.com/news/2012/01/27/calif-adopts-new-emissions-limits-for-cars-trucks/

EUROPE

UK National waste policy needed to secure resources for manufacturing

According to EEF, the Government should work with industry to develop a resource strategy that will enable materials, particularly those in scarce supply, to be re-used and to speed up their movement across the economy.

www.waste-management-world.com/index/display/article-display/5949743350/articles/waste-management-world/markets-policy-finance/2012/01/National_Waste_Policy_Needed_to_Secure_Resources_for_Manufacturing.html

Airlines will have to start buying carbon credits to pay for carbon emitted during all flights into and out of Europe

www.businessgreen.com/bg/news/2134208/airlines-enter-emissions-trading-scheme

EU emissions tax blows change into Middle East airways

Dubai's Emirates will spend \$52mn US this year to purchase additional emission allowances, with Etihad facing a \$394mn bill over the next nine years, according to the Head of Environment of the Abu Dhabi-based carrier.

www.greenprophet.com/2012/01/eu-emissions-tax-middle-east/

Europe's carbon price lows expose gap to Australia's tax

The value of European Union Emission Allowances has halved since June and touched a record low of €6.38 a tonne of CO₂. The value of Certified Emission Reduction units, mandated under the United Nation's Clean Development Mechanism – tradeable internationally but mostly sold as offsets to liable parties in Europe.

www.eco-business.com/news/europes-carbon-price-lows-expose-gap-to-australias-tax/

New rules could boost New England renewable power

The Federal Government released an order to build electricity transmission to connect remotely located renewable power sources to customers. Every new England state has set goals to increase the amount of renewable power it uses.

www.businessweek.com/ap/financialnews/D9SE6FU00.htm

Policy Initiatives

UK spearheads private investment drive to tackle climate change

The Climate Public Private Partnership is expected to attract at least £30 of additional private investment for every £1 of public money to support the development of clean, renewable and efficient energy, advanced technologies and the protection of natural resources in developing countries.

www.energyefficiencynews.com/i/4828/

OTHER COUNTRIES

Philippines Department of Agriculture pushes climate change measures

Department of Agriculture Secretary Proceso J. Alcala has ordered integration of climate change adaptation measures in all of their programs and projects.

www.mb.com.ph/articles/346772/da-pushes-climate-change-measures

China to introduce a carbon tax to reduce GHG

China's decision to tax carbon makes good environmental, political and financial sense. And if the world does move to price carbon and embrace emissions trading, this would position Australia well to help shape the emerging international process for cutting carbon.

www.skynews.com.au/politics/article.aspx?id=705498&vld=

Pakistan wants to work with India on climate change: Yousuf Raza Gilan

www.timesofindia.indiatimes.com/home/environment/global-warming/Pakistan-wants-to-work-with-India-on-climate-change-Yousuf-Raza-Gilan/articleshow/11642368.cms

INDIA

Fidelity National Information Services Inc. sign deal for algae biodiesel development in India USD 100mn invested in algae project for biodiesel FIS Large Indian algae initiative for feed and biofuel.

www.bioenergy-news.com/index.php?/Industry-News?item_id=4429

Bhabha Atomic Research Centre to set up biogas plant at Mayakannu

The biogas plant will be able to handle 5 tonnes of waste daily. The plant can process kitchen waste, paper waste, grass, leaf litter, remains from abattoirs, hospital waste, green plant waste, crop residues, and water hyacinth.

www.thehindu.com/news/cities/Thiruvananthapuram/article2810686.ece

RE potential 28GW+ in Karnataka

The policy envisions a generation of 6600MW of renewable electricity by 2014 and about Rs.23,890crore of investments during the said period. Studies by the World Institute of Sustainable Energy. This includes 1929MW of wind, 86MW of biomass, 782MW of bagasse cogen, 646MW of small hydro, and 9MW of solar.

www.constructionweekonline.in/article-7672-renewable_energy_potential_28gw_in_karnataka/

NORTH AMERICA

Viridis Energy buys Enligna wood pellet plant in Nova Scotia, Canada

www.wood.lesprom.com/news/50538/

Ameresco gets final clearance for Savannah River biomass plant

The renewable energy and efficiency developer, installed the generator with \$795mn in funds awarded through a May 2009 energy savings performance contract, according to a news release from the company. The facility will burn 325000 tons of fuel per year.

www.cospp.com/articles/2012/01/ameresco-gets-final-clearance-for-savannah-river-biomass-plant.html

Verso completes 28MW biomass project

The energy generated by plant would power 18,000 homes in a year.

www.environmentalleader.com/2012/01/11/verso-completes-28-mw-biomass-project/

Bowater seeks approval for biomass project

The project would generate 3.3MW of electricity.

www.thechronicleherald.ca/business/51312-bowater-seeks-approval-biomass-project

Plainfield Renewable Energy develops 37.5MW biomass project in connecticut

www.marketwatch.com/story/plainfield-renewable-energy-starts-development-of-375-megawatt-biomass-project-in-connecticut-an-industrial-info-news-alert-2012-01-23?reflink=MW_news_stmp

Business & Markets

Maine college fires up biomass plant

The facility is expected to save the school \$1.5mn annually in heating costs.

www.biomassmagazine.com/articles/6126/maine-college-fires-up-biomass-plant/

Cuba to build 100 modern biogas plants in Cuba

The plants will generate fuel to meet the energy needs of rural areas, thus preventing pathogenic microorganisms contained in animal wastes from contaminating the subsoil and the aquifer.

www.cadenagramonte.cu/english/index.php?option=com_content&view=article&id=9224:cuba-to-build-a-hundred-modern-biogas-s&catid=2:cuba&Itemid=14

Waste to Energy Canada, Inc to develop SWM in Northern Yuko

www.solidwastemag.com/news/wtec-wins-bid-to-develop-solid-waste-management-system-in-northern-yukon/1000862339/

EUROPE

German pellets to open CHP plant in Italy

The power plant will supply about 180kW of power and 240kW of heat, which is enough to power around 350 households a year.

www.bioenergy-news.com/index.php?/Industry-News?item_id=4480

Enormous UK biopower plant nears full commercial operation

RWE power's Tilbury, England facility produces nearly 750 MW using wood pellets. The plant will use roughly 2.3mn metric tons of wood pellets by the time the plant switches only to biomass.

www.biomassmagazine.com/articles/6063/enormous-uk-biomass-power-plant-nears-full-commercial-operation

Archer Daniels acquires biodiesel company in Poland

www.thebioenergysite.com/news/10193/adm-acquires-biodiesel-company-in-poland

EDF Trading buys biomass plant in Germany

EDF Trading, having capacity of 1,20,000 t/y production

www.edftrading.com/pressReleases.aspx?m=19&amid=2312

BioDiesel International to build biogas plant in France

The plant will convert organic waste into biogas.

www.bioenergy-news.com/index.php?/Industry-News?item_id=4442

A MSW Plant for UK

The plant will process up to 75,000 tonnes of MSW a year to produce 3.2MW of power.

www.thebioenergysite.com/news/10174/new-msw-plant-for-uk

Welsh Government to step up sustainable building drive

Government committed to reducing the carbon emissions of the built environment and to moving to building standards that will deliver housing that is much more energy efficient.

www.china-newenergy.net/english/shownews.asp?id=2188&news_class=Industry&first=News

Business & Markets

Scotland's Fergus Ewing Co. aims for 17GW of renewables in 2012

www.china-newenergy.net/english/shownews.asp?id=2189&news_class=Industry&first=News

UK-Norwegian Government to develop industrial biotechnology plant

The British and Norwegian Governments are to work together to support nine R&D projects that will create new processes capable of generating high-value chemicals while cutting carbon emissions, through industrial biotechnology and bio-refining.

www.plantengineer.org.uk/article/39353/Joint-UK-Norwegian-team-to-develop-industrial-biotechnology-plant-.aspx

LATIN AMERICA

Evogene forms subsidiary to expand castor bean activity in Brazil

Israel-based Evogene Ltd. has launched a wholly owned subsidiary, Evofuel Ltd., to accelerate the development and commercialization of castor bean varieties in Brazil for biodiesel and biojet fuel production, as well as to expand biofuel research and development activities located in Israel.

www.biodieselmagazine.com/articles/8257/evogene-forms-subsiary-to-expand-castor-bean-activity-in-brazil

Abengoa to build sugar cane biofuel plant in Brazil

The plant to generate 100mn liters of ethanol per year.

www.biofuelschat.com/topics/abengoa-build-next-gen-sugar-cane-ethanol-plant

AFRICA

Tower Power to build 2 biopower plants in kenya

One facility will provide 30MW of power and will be built at Marigat in the Baringo District. The second plant will be provide 12MW and is planned for Mariakani in the Kwale District.

www.bioenergy-news.com/index.php?/Industry-News?item_id=4446

Zimbabwe: Green Fuel Co. aims to increase power production by 18MW

Green Fuel has a US\$600mn ethanol production and processing unit in Chisumbanje Estates, Manicaland Province. The plant is currently producing 4,5MW with the bulk of the electricity being used internally including running the agricultural divisions in producing sugar cane.

www.allafrica.com/stories/201201190205.html

Nigeria: FG, Global Biofuels sign N414bn biomass deal

The project is expected to create a total of 120, 000 direct and 750,000 indirect jobs across the value chain in addition to linking 15 states of the federation to cheap bio-fuel generated electricity at the rate of 30MW per state.

www.allafrica.com/stories/201201040444.html

Business & Markets

World Bank GHG system to help small farmers access carbon market

The new methodology will allow project developers to estimate the GHG reductions of sustainable land management practices in the agricultural landscape. Some of the practices included in the methodology are manure management, use of cover crops, crop residual management and the introduction of trees to the landscape.

www.prweb.com/releases/2012/1/prweb9082681.htm

OTHER COUNTRIES

Japan's Toyo to build 10,000mt/year ethanol plant in Malaysia by Q2 2013

The plant, to be run by a JV comprising US firm Glycos Biotechnologies and Malaysian developer Bio-XCell, will have its capacity tripled to 30,000 mt/year by 2014. The plant will produce industrial-grade ethanol from crude glycerin.

www.platts.com/RSSFeedDetailedNews/RSSFeed/Petrochemicals/7049750

Covanta teams up with Israeli company for biomass project

According to the BIRD Foundation, bringing the recent round of project funding up from \$8.1mn to \$22mn.

www.biomassmagazine.com/articles/6064/covanta-teams-up-with-israeli-company-for-biomass-project

China to issue plans for forest biomass energy

The nation targets 1.52 % of RE generated from forest biomass by 2015, and 2% by 2020.

www.bloomberg.com/news/2012-01-07/china-to-issue-plans-for-forest-biomass-energy-securities-says.html

Developer eyes giant grass for Thai biomass plant fuel

The plant is expected to come into operation in 2014. Under the agreement, Viaspace would grow up to 930,000 tonnes of Giant King Grass a year to fuel the 90MW facility, creating 2,000 jobs for local farmers.

www.rechargenews.com/energy/biofuels/article298045.ece

Algae.Tec partners for algae carbon capture and biofuel production project in China

The first project under the JV will be for the construction of a 250-module algae biofuels facility in China to be equally funded by both parties. will produce approximately 33mn litres of algae derived transport oil and approximately 33,000 tonnes of biomass per annum at a combined value of over \$40mn, and capture 137,000 tonnes of waste CO₂.

www.biofuelsjournal.com/articles/Algae_Tec_Partners_For_Algae_Carbon_Capture_and_Biofuel_Production_Project_in_China-118988.html

Finance & Investments

INDIA

JP Morgan invests Rs 100crore in Narain Karthikeyan's green power company

www.thehindubusinessline.com/companies/article2769279.ece

NORTH AMERICA

Enova biomass project nets mezz funding from Carlyle, SAIC

The plant will employ Best Available Control Technology to control emissions and is fully certified as a renewable power source in the State of Connecticut. The project will bring more than \$800,000 per year of tax revenues to the town and create 400 jobs.

www.altassets.net/private-equity-news/by-news-type/deal-news/enova-biomass-project-nets-mezz-funding-from-carlyle-saic.html

Connecticut biomass project gets \$225mn in funding

The project is expected to generate 37.5MW of clean energy to power an equivalent of 37,000.

www.masshightech.com/stories/2012/01/09/daily16-Conn-biomass-project-gets-225M-in-funding.html

US biofuel company KiOR secures \$75mn loan

www.biofuelsandbiomass.energy-business-review.com/news/kior-closes-75m-four-year-term-loan-270112

US Green energy investment soars to \$260bn

www.greenwisebusiness.co.uk/news/green-energy-investment-soars-to-260-billion-2963.aspx

Canadian Government pumps \$22mn into green tech

The projects receiving federal cash is the commercialisation of a high-resolution magnetic flux leakage (XHR-MFL) instrument designed by Calgary-based Pure Technologies. The projects include an advanced drive system for off-road hybrid vehicles, developed by Waterloo-based Accelerated Systems, and a venture spearheaded by Vision Ecoproducts in Woodbridge that uses agricultural waste to build energy-efficient window frames and doors.

[www.itweb.co.za/index.php?option=com_content&view=article&id=51054:canadian-govt-pumps-\\$22m-into-green-tech](http://www.itweb.co.za/index.php?option=com_content&view=article&id=51054:canadian-govt-pumps-$22m-into-green-tech)

EUROPE

German utility RWE plans to invest about € 5bn to expand its green power business

www.reuters.com/article/2012/01/10/rwe-renewables-idUSF9E7IE01X20120110

UK leads launch of £3bn green energy fund

UK would provide £110mn towards two funds, which are intended to support the development of 7GW of new solar, wind, and hydroelectric power plants – two-thirds of the UK's renewable energy capacity – helping to deliver carbon savings of at least 265mn tonnes.

www.ft.com/home/india

Finance & Investments

£25mn investment in UK sustainable infrastructure

The agreement, will see KNM Group Berhad take ownership of the EnergyPark site, which is consented for the UK's first 80MW biomass from waste to power station.

www.thebioenergysite.com/news/10360/25m-investment-in-uk-sustainable-infrastructure

Europe funds BioBoost project to develop intermediates, biocrude

The project, referred to as BioBoost, aims to convert residual biomass into intermediates, such as biocrude, for the production of drop-in biobased fuels and chemicals, as well as electricity and heat.

www.biorefiningmagazine.com/articles/6027/europe-funds-bioboost-project-to-develop-intermediates-biocrude

UK Government invest in IFC climate catalyst fund for green projects

The Climate Catalyst Fund will seek to assemble a diversified portfolio of private equity funds managed by established and emerging fund managers. It also intends to make direct co-investments in early and growth-stage companies that are developing innovative technologies and helping to reduce climate change.

www.eqmaglive.com/index.php?option=com_content&view=article&id=6009:ifc-uk-government-invest-in-ifc-climate-catalyst-fund-for-green-projects&catid=98:other-renewables&Itemid=153&utm_source=E3_23062011&utm_campaign=1dbe5a85ed-EQ_ENERGY_HUB_JAN_30_20121_28_2012&utm_medium=email

AFRICA

AfriRen gets finance boost for Ghana biomass production

AfriRen invested \$8mn to help build a woodchip factory and storage facilities at its site near the Ghanain port of Takoradi.

www.rechargenews.com/energy/biofuels/article299337.ece

Africa Renewables subsidiary secures credit line

The funding will be used to support its first biomass energy project in Africa and this, combined with money that came from deals with GREL and Verdo Energy, should help the company realise its strategy to double its biomass exports from Africa to Europe by 2016.

www.afriren.com/en/news/101-africa-renewables-subsidiary-secures-credit-line

OTHER COUNTRIES

Thai sugar producer set to invest in bio-power

The group, has announced plans to invest in bio-power and ethanol production in Australia after completing a takeover of Queensland's MSF Sugar in early 2012. It has also called on the Australian Government to create clear policies for bio-power promotion.

www.agra-net.com/portal2/home.jsp?template=newsarticle&artid=20017930042&pubid=ag002

LanzaTech raises \$56mn, targets Asia with biofuel tech

The money will enable LanzaTech to continue developing processes for converting the carbon monoxide from waste gas from industrial operations and other sources into biofuels and chemicals.

www.gigaom.com/cleantech/lanzatech-raises-56m-targets-asia-with-biofuel-tech/

R & D - Technology

INDIA

Norway-India research projects scout for low-carbon opportunities

Three low-carbon energy research projects in India are getting a total of around 18mn Norwegian kroner from the Research Council of Norway under a research cooperation program between the two countries

www.ecoseed.org/politics-article-list/article/3-politics/12196-norway-india-research-projects-scout-for-low-carbon-opportunities

NORTH AMERICA

Biodiesel to fuel SD school buses in US

www.kpbs.org/news/2012/jan/02/biodiesel-fuel-sd-school-busses/

UW students to design ultra-efficient hybrid powered by biodiesel

www.biodieselmagazine.com/articles/8305/uw-students-to-design-ultra-efficient-hybrid-powered-by-biodiesel

New technology in biomass conversion to crude oil

US - Researchers at the University of Illinois are preparing to develop an educational and research facility that will be used to demonstrate the process of converting swine manure and algae into crude oil.

www.thepigsite.com/swinenews/28664/new-technology-in-biomass-conversion-to-crude-oil

OriginOil and DoE to convert algae into renewable crude oil

OriginOil Inc plans to co-develop an integrated system with the US Department of Energy's Idaho National Laboratory (INL) for the direct conversion of raw algae into renewable crude oil that can be used by existing petroleum refineries.

www.renewableenergyfocus.com/view/23456/originoil-and-doe-to-convert-algae-into-renewable-crude-oil/

EUROPE

UAE Etihad airways flies first biofuel flight

The company is having an open house to show off its demonstration plant at 960 W. 53rd St. North.

www.thebioenergysite.com/news/10366/etihad-airways-flies-first-biofuel-flight

Super-grass may boost diet & bioenergy in UK

Researchers from the Biotechnology and Biological Sciences Research Council Sustainable Bioenergy Centre have discovered a family of genes that could help us breed grasses, such as rice and wheat, with enhanced properties for diet and bioenergy.

www.businessweekly.co.uk/academia-a-research/13408-super-grass-may-boost-diet-a-bioenergy

OTHER COUNTRIES

Australian tree offers Texas growers biofuel alternative

www.southwestfarmpress.com/orchard-crops/australian-tree-offers-texas-growers-biofuel-alternative

Climate Change & Environment

INDIA

China, India enter heating-up Arctic race

The frozen world of the Arctic is warming up as a new frontier of the great power game for energy resources, with India, China and Japan seeking stakes in the ecologically and economically sensitive region.

www.atimes.com/atimes/South_Asia/NA25Df01.html

Scots ideas help shape first Indian eco-tourism project

This co-operative tourism development project, funded by the Scottish Government's South Asia Development Programme, is supporting communities in rural India.

www.deadlinenews.co.uk/2012/01/27/scots-ideas-help-shape-first-indian-eco-tourism-project/

NORTH AMERICA

US CO₂ emissions to stay below 2005 levels as coal use shrinks

The Obama Administration has set a target under the UN for the US to reduce its greenhouse gas emissions 17% below 2005 levels by 2020.

www.reuters.com/article/2012/01/24/us-carbon-idUSTRE80N0G220120124

US experts in Fiji to help address climate change

A team of experts from the US Agency for International Development is in Fiji to identify how it may assist the island nation and other Pacific nations to adapt to climate change.

www.news.xinhuanet.com/english/sci/2012-01/23/c_131374372.htm

Climate change drying out forests in western Canada

www.ctv.ca/CTVNews/Canada/20120130/Climate-change-drying-out-forests-in-western-Canada-120130/

EUROPE

UK firm to boost climate change coverage in EA

The training is funded by Climate and Development Knowledge Network, a UK-based NGO that supports decision-makers in designing and delivering climate compatible development.

www.bizcommunity.com/Article/410/98/68918.html

OTHER COUNTRIES

Singapore adapts to sea level rise brought by climate change

www.gmanetwork.com/news/story/246024/scitech/technology/singapore-adapts-to-sea-level-rise-brought-by-climate-change

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 forays into Solar Power

*Successfully commissioning of
3MW solar power plant in Gujarat, India*



- *Covering an area of 16.5 acres,*
- *Utilizes multi crystalline panel having capacity to power 4500-5000 rural household homes*
- *CO₂ emission reduction potential of approx. 100000 tonnes over the 25 years*

Abellon CleanEnergy

Sangeeta Complex, Near Parimal Crossing, Ellisbridge, Ahmedabad- 380006 INDIA
www.abelloncleanenergy.com