

## Govt targets 18,500 mw green power

The Union government has targeted installing 18,500 mw of renewable energy power during 12th five-year plan beginning April 1, 2012. This will comprise of 11,000 mw through wind, 1,600 mw small hydro ventures, 2,100 mw biomass power and 3,800 mw of solar power capacities.

Also, the nodal Ministry for New and Renewable Energy has projected renewable capacity addition of about 30,500 mw during the 13th plan. This would include 11,000 mw wind, 1,500 mw from small hydro, 2,000 mw biomass power and 16,000 mw of solar power. In the current 11th plan, Centre had set targets to install 12,230 mw of renewable energy power in the country.

Out of this, 9,717 mw has been set up in the first four years of the plan. At present, India has a total installed capacity of 19,975 mw of renewable power as on March 31, 2011.

## Biomass power producers seek revision of price

Companies using biomass to generate power are worried over the rise in closures due to the burgeoning cost of raw materials. They want annual revision of the variable cost component of the power supply rates fixed for them, a mechanism to 'fix' the price of biomass and some concessions on connections to the grid. They'd be pleading their case at a public hearing convened by the Central Electricity Regulatory Commission (CERC) on on December 22, on the draft rules on rates fixed for renewable energy, for the 2012-17 period.

CERC Chairman Pramod Deo said, "We will hear all operators of renewable en-

**50,000 MW new RE capacity would be added during the XII and XIII plan**

The Ministry of New and Renewable Energy has prepared in February 2011 a Strategic Plan for accelerated development of renewable energy sources for various applications including power generation, covering the period up to 2022. The Strategic Plan covers grid-interactive power generation from the main renewable energy sources - solar, wind, biomass and small hydro power, besides off-grid/ decentralised renewable energy applications/ programmes such as biogas, remote village electrification, biomass gasifiers, solar photovoltaic/ thermal systems, micro-hydel, waste-to-energy, etc. It, inter-alia, makes an assessment of the existing situation and external factors impacting growth, strengths and weaknesses of the sector and potential strategies to address the same.

The Strategic Plan document has laid down specific goals and targets for the six years period 2011-17 and long-term Aspirational Goals for the ten years period up to 2022 for various renewable energy programmes/ applications including power generation.

With regard to renewable power generation, the document estimates that about 50,000 MW new capacity would be added during the XII and XIII plan periods leading to total renewable power generation capacity of about 73,000 MW by 2022. This capacity will comprise of 20,000 MW from solar power under the National Solar Mission and the remaining 30,000 MW from other renewable energy sources mainly wind, small hydro and biomass power. The contribution of renewable power by 2022 to the then likely total installed capacity and electricity mix has been estimated to be around 18% and 7.3% respectively, which could change depending on actual achievements of conventional power capacity.

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ergy, including biomass power plants." P Krishnakumar, president of the Indian Biomass Power Association, told a business newspaper: "We are of the view that the (rate) revision for biomass power projects can be done annually and should be limited to the impact of interest costs and fuel costs. We will also request CERC to exempt the scheduling of biomass power plants, as these operate subject to availability

of biomass."

## Govt gives incentives to buy RE equipment

The Union government is providing Central Financial Assistance (CFA)/incentives ranging between 30 to 100 per cent of costs of deployment/ purchase of various types of renewable equipment to people, including

those belonging to economically marginalised sections of society, depending on location and user category. Union Minister of New and Renewable Energy Farooq Abdullah recently told this to the Lok Sabha.

Incentive of excise duty exemption is available to manufactures of solar equipments. Benefit of nil/concessional customs duty on import of some of the equipment, raw materials, components and products used in manufacture of solar energy equipment is also available. The Government has taken several measures to popularise use of renewable sources of energy in the country.

## R&D trials continue on alternative fuels

Initiatives by the government have been taken to explore the possibility of utilising biofuels- bio-ethanol and bio-diesel and hydrogen to supplement the consumption of petrol and diesel, Minister of New and Renewable Energy Farooq Abdullah told the Lok Sabha recently.

A National Policy on Biofuels has been developed and was announced in December, 2009. A target of 5 per cent blending of bio-diesel with diesel and bio-ethanol with petrol has been fixed. Research and Development (R&D) work has been initiated by various scientific organisations/institutions. R&D has been undertaken for development of improved varieties of planting material for improving yields of non-edible oil seeds and their oil content for increasing the production of biodiesel.

Large scale field trials of the improved planting material are currently in progress in Chhattisgarh, Karnataka, Rajasthan, Tamil Nadu, etc. Besides, R&D work has also been undertaken for development of second generation technologies for produc-

tion of bio-ethanol from agricultural and forest residues/wastes.

## FINANCE

### Tata Capital-IFC to tap renewable energy

Tata Capital a Tata Sons subsidiary, has set up a joint venture company with International Finance Corporation (IFC) to explore business opportunities in the climate change space. The company, Tata Cleantech Capital (TCCL), would provide funding and advisory services to small and mid-sized enterprises developing renewable energy projects in India.

IFC, a member of the World Bank Group, would hold the remaining 20 per cent stake. Through TCCL, Tata Capital plans to finance around 200 renewable energy and energy-efficiency projects over the next five years.

## HYDEL



### HP hydel project in troubled waters

Villagers are against Himachal Pradesh Power Corporation's (HPPCL) proposed 520 mw Nakthan hydropower project in Manikaran valley of Kullu district as the project will make use of Rudranag waterfall, where deities from Kullu and other places come for their annual holy bath.

HPPCL started a feasibility survey for Nakthan power project. As the survey proposes to have a tunnel to channelize water from a mountain opposite Khirganga passing close to Rudranag, deities are turning against the idea, said Hira Lal, president, Manikaran Kardar Sangh. In one km area of Rudranag, the villagers are not carrying out any digging work for centuries as the place is sacred to them. Hira Lal, a villager, said that in May, deities Kalinag and Rudranag had gone to the waterfall for taking holy dip and at that time, both deities reportedly ordered to oppose the project. As residents of Nakthan village are the custodians of the religious place, they have formed Nakthan Sangarsh Samiti to oppose the project.

### NTPC submits report on Siang Upper Power Project

NTPC, which was entrusted with the preparation of Pre-Feasibility Report (PFR) of Siang Upper Hydro Power Project (9,750 mw) in Arunachal Pradesh, has completed the PFR and submitted it to the State government.

The North Eastern Region is blessed with enormous hydro-electric potential. Based on the studies for re-assessment of hydro-electric potential of the country, CEA has identified 58,356 mw hydro capacity (above 25 MW) in North Eastern (NE) Region of the country which constitutes about 40 per cent of the total identified hydro capacity in the country.

Presently, only about 1.98 per cent of the identified potential (above 25 mw) has been developed in NE region, while another 7.96 per cent is under various stages of development.

### Min nod pending for Mizoram hydel projects

The Mizoram government is awaiting the clearance of the ministry of external affairs for the 815 mw Lungreng hydro-power project and 635 mw Chimmtuipui hydro-power project in the state.

Clearance from the ministry is required because going ahead with the project could have ramifications at the international level with the catchment and submergence areas of both the dams falling in neighbouring Myanmar. As India and Myanmar do not have a water-sharing treaty, the matter has been sent to the external affairs ministry for clearance. The North Eastern Electric Power Corporation (Neepco) signed an MoU with the Mizoram government for the two project in 2010.

As per the pre-feasibility study, the submergence and catchment areas of the two projects falls in Myanmar. As India has no water-sharing treaty with Myanmar, the matter was sent to the ministry of external affairs in 2010.

### North Lakhimpur project to supply 105 mw to MP

MP to get 105 mw from North Lakhimpur project/ MP to get 105 mw from North Lakhimpur project.

From 2014, Madhya Pradesh will start getting 105 mw power from North Lakhimpur, located on the border of Assam and Arunachal Pradesh, as the National Hydroelectric Power Corporation (NHPC) is coming up with a mega project there.

Madhya Pradesh Power Trading Company (MPPTCL) signed a power purchase agreement (PPA) with NHPC recently to source 105 mw energy from August 2014, sources said. The NHPC project is coming up at Subansiri river lower part. NHPC will sell power to Mad-

hya Pradesh for 33 years at a cost of around Rs 2 per unit, the sources said.

The Centre has allocated 105 mw power to the State from NHPC's upcoming mega project.

### Assam seeks single body to head all hydel projects

The Assam government has proposed setting up of a North East Water Resource Authority (NEWRA) as it wants all mega-hydel projects in the upper reaches of Brahmaputra in Arunachal Pradesh to be brought under one single authority.

"We are not against mega-hydel projects in the upper reaches of Brahmaputra, but we do not want the downstream areas in Assam to be ignored. If the setting up of NEWRA gets delayed because of opposition from Arunachal Pradesh, we will be forced to take necessary actions under the Inter-State River Water Dispute Act, 1956 or take help of constitutional provisions," said the State Power Minister Pradyut Bordoloi on December 14.

"Our stand is clear. We will welcome scientifically-built hydel projects on the condition that all proposed hydel projects in the upper reaches of Brahmaputra, particularly in Arunachal Pradesh, be brought under an authority, for which we have proposed NEWRA," Bordoloi said.

The power minister's warning to Arunachal Pradesh has come in the wake of renewed mass protest by 27 organisations of the state against the 2,000 mw Subansiri lower project built by National Hydro Power Corporation at Gerukamukh in Arunachal Pradesh.

### Sonapani hydel project in Meghalaya inaugurated

Meghalaya Chief Minister Mukul Sangma on December 15 inaugurated the Sonapani Mini Hydel Project. It is to add another 1,500 kw of electricity to the grid. Sonapani Mini Hydel Project was first commissioned in 1922 in Shillong city, the then summer capital of New Province (Eastern Bengal and Assam) but had to be close down in April 1982 as the machines had outrun the utility.

The hydel project was proposed by JW Meares to cater to street lighting, government houses, government offices and private houses taking into consideration the fact that this hill city has two rivers - Umkhrah and Umshy-rpi. Sangma switched on the knob to officially generate 940 mw of power from the project using the river waters. He lauded the Meghalaya Electric Cooperation (MeECL) for reviving the project. He called it NE's first green power project which is the pride of the people of the state.

About access to clean, quality and affordable power in the state, Sangma said, "all our (power) requirement can be met through renewable energy resources and by leaving aside all those sources of power dependent on the fossil fuel which contribute towards global warming."

## SOLAR



### More solar power developers seek RECs in Karna

More number of solar power developers have evinced keen interest in putting up projects in Karnataka under the 'renewable energy certificate' (REC) scheme. Over the last three weeks, Karnataka Renewable Energy Development Ltd (KREDL) has received applications for setting up projects totalling to 250 megawatt (mw).

"All these applications are being processed and projects will be sanctioned in about 20 days," NS Prasanna Kumar, Managing Director, KREDL, told a business newspaper on December 21. "The REC mechanism is gaining a huge market," he added. Under the REC scheme, producers of renewable energy who do not opt for the preferential feed-in tariff get tradable generation-based certificates.

The certificates could be bought by specified 'obligated entities' who are either specified consumers or electricity distribution companies. Kumar had recently announced that KREDL would invite projects with a total capacity of 200 mw under the REC scheme of the Ministry of New and Renewable Energy (MNRE).

This is apart from the feed-in tariff based programme of the Karnataka Solar Policy for encouraging developers to set up projects worth 350 mw by 2016. Indeed, as part of that programme, KREDL had floated a tender for setting up projects with a total capacity of 80 mw. Twenty two companies had applied for setting up projects when the bids closed on last November 24.

However, the State Energy Department recently placed a stay on the tender process for the project following complaints by few developers. "We had filed a petition on Monday to vacate the stay and we expect it any moment now," Kumar said.

### Govt rejects plea to impose duty on imported solar modules

The Union government has ruled out the imposition of a customs duty on imported solar modules. A senior official of the Ministry of New and Renewable Energy (MNRE) told a business newspaper on December 21 that the government is bound by international agreements in which it has committed not to impose customs duty on products used in solar power generation.

The official said the Ministry has received representations from Indian (module and cell) manufacturers seeking duty protection against cheap imports. (The manufacturers allege dumping by the Chinese and selling of modules backed by cheap credit by the Americans.) The official said that his Ministry had not yet sent its recommendations to the Ministry of Finance. He said that the issue was being examined in the MNRE.

He stressed that the government would "find some way" to protect the local manufacturers. When asked if incentives would be given to the domestic industry, he said "it is being considered." There are 51 module manufacturers in India, nine of whom also make cells. These units have a combined capacity of 1,500 mw.

### India to develop 60 cities as solar cities

India's Ministry of New and Renewable Energy proposes to develop 60 cities as solar cities. So far, based on proposals received by the government from various states, 'in-principle' approval has been given to 48 cities to be developed as solar cities in the country. Out of these, 37 cities have been given the green light by the government. The criteria set by the ministry for identification of cities includes a population between 50,000 to 50 lakh (with relaxation given to special category states, including North-East states), initiatives and regulatory measures already taken along with a high level of commitment to promote energy efficiency and renewable energy.

### India to add 400 mw solar power to its grid by Dec end

The Ministry of New and Renewable Energy expects that 400 mw solar power will flow to the grid by the end of this year as many projects awarded last year are nearing completion, sources in government said.

The Ministry has so far achieved 183-mw generation capacity since the solar mission was launched in January

last year with a thin generation base of 3 mw. The solar power tariff, which was as high as Rs 17.91 per unit in November 2010, has dropped by over 58 per cent at Rs 7.49 per unit, the bid offered by French company, SolaireDirect SA, in the latest auction earlier this month.

The Central Electricity Regulatory Commission (CERC) limits solar power tariff and bidders quote rates below that price. "The solar power tariff is inching closer to domestic coal-based power tariff. It is certainly cheaper than power generated from imported coal, which costs over Rs 10 per unit," another official concerned said. Developers say that the declining tariff is a natural consequence of significant reduction in project cost.

### Farooq stresses on expansion of solar power production

The Union Minister for New and Renewable Energy Farooq Abdullah has asked the officials to prepare an action plan for introducing net metering in commercial and residential roof top solar projects, so that use of solar power can be expanded substantially in the country. With solar power cost coming down from Rs 18 per unit in 2010 to Rs 8 per unit in 2012, it should be possible to allow consumers feed extra power to the grid. He called upon the regulators and distribution companies to come out with practical solution to facilitate the process. Abdullah inaugurated a national consultation in New Delhi on December 20 on net metering in grid solar projects. The consultation was organised by the Ministry of New and Renewable Energy in association with GIZ, Germany.

### Rajasthan invites bids for 200 mw solar farms

Rajasthan has invited bids from developers to set up 200 megawatts of solar power projects in an area that has the country's second-most solar radiant exposure. The state plans to auction contracts for 100 mw of photovoltaic plants and 100 mw of solar thermal plants, Rajasthan Renewable Energy Corp has said.

Reliance Power, (RPWR), Shriram EPC (SEPC) and SunEdison, the solar development unit of MEMC Electronic Materials are among companies that are developing projects in Rajasthan, believed to have some of India's most promising resources to develop energy from sunlight with its sprawling desert terrain.

### Use space tech to tap solar power: Kalam

Former president APJ Abdul Kalam has suggested that the country should tap solar energy in a big way using satel-

lite technology as a solution to its mounting energy requirements. "We should put a solar power satellite into orbit. Such a satellite can supply clean power and it will be a solution to our power problem," Kalam, a space scientist, said during an interaction with Sainik School students at Kazhakkuttam near Thiruvananthapuram recently. He said it was also important to put in place a high-tech system which could make accurate weather forecast.

"What India wants now is not a space shuttle but a string of transponders which could connect villages and forecast climatic and weather changes accurately," he said. The youth in the country had the ability to make India a developed nation by 2020, he added.

### NTPC's 50 mw solar plant to come up in MP

National Thermal Power Corporation (NTPC) will set up its biggest solar (green) power station of 50 megawatts in the electricity-starved Madhya Pradesh's Rajgarh district at a cost of Rs 700 crore.

NTPC will sell the entire power generated from this project to Madhya Pradesh, NTPC officials said. NTPC has kick started the process of setting up five mw and 15 mw solar stations in Orissa, Himachal Pradesh and Andhra Pradesh but the company's biggest non-conventional energy project would be set up in Madhya Pradesh. In all, NTPC is working on generating over 100 mw solar power energy projects across the country right now.

### WIND



### PTC India provides Rs 100 cr to Mytrah Energy

PTC India Financial Services provided Rs 100 cr to Mytrah Energy in the third tranche of funding as part of a total mezzanine funding. There would be no equity dilution for Mytrah Energy's existing shareholders from the funding. The group expects to repurchase all tranches of mezzanine funding from internal cash flows and the issue of senior debt instruments, bonds or other debt refinancing,

within three to five years.

Mytrah Energy (formerly Caparo Energy), an independent power producer intends to acquire a portfolio of wind farms with a target total annual installed capacity of up to 5,000 mw by 2017. Its investors includes Henderson, Eton Park, Capital International, and Black Rock. Bindu Vayu Urja, subsidiary of Mytrah Energy has secured new senior loan funding of Rs 960 cr, comprising of Rs 600 cr, which is fully underwritten by IDFC and Rs 360 cr, which was at an advanced stage of syndication. The company expects to achieve the full 1 gw of project orders with Suzlon by March 2013.

The company has finalised the terms of specific purchase orders with Suzlon Energy, for a further 63 mw of wind projects, and with Gamesa Wind Turbines, for an initial order of 79.9 mw. By end of December 2011, the company will have 500 mw of projects distributed over 11 sites that are either commissioned or are under construction.

### AP's wind power developers want higher tariff

Wind power developers in Andhra Pradesh are in a huff over lower power tariff. A petition before the Andhra Pradesh Electricity Regulatory Commission (APERC), the body that fixes power tariffs, in the state is already pending.

Andhra Pradesh at present allows Rs 3.50 per unit. Among other states, Maharashtra is allowing Rs 5.37 per unit and a generation-based incentive of 50 paise. Rajasthan has recently raised the tariff from Rs 4.22 to Rs 4.46 and a 4 per cent evacuation incentive. According to Vikram Kailas, MD, Mytrah Energy India, the tariff in Andhra Pradesh is among the lowest. Other states are giving around Rs 4.50 to Rs 5.50 depending on the wind zone they come in, he said.

Andhra Pradesh, in terms of wind resources, is a good destination. However, the lower tariff is making it difficult for the companies in the state. "The IRR now is between low and high teens for 25 years. Without a tariff revision, most of the projects will not graduate from being demonstration projects," he said adding that typically it took about Rs 6 crore for setting up each megawatt power by wind.

### OTHERS

### Clean tech needs govt's push: Experts

Opportunities like innovation for reduction of T&D losses, financial innovation and technologies for carbon capture are areas within the ambit of clean tech that entrepreneurs must focus on, clean tech experts said at the 'TiE Entrepreneurial Summit' held recently in Bangalore.

With a lot of players coming into other renewables such as solar and wind, one must look at different business models, getting across the supply chain, Pravan Malhotra, part of the clean technology Investments business at IFC of the World Bank Group said.

Sustainable bio energy, energy efficiency and carbon are areas that are great to stay in, said Vivek Sharma, Ventures Associate-Asia, Emerging Business and Ventures of BP.

Clean tech requires government regulations, support and we are now seeing things heading in the right direction, Malhotra said, speaking at a session on the investment in clean technologies.

Clean tech is a nascent market with a lot of wealth creation opportunities for entrepreneurs and one which sees a lot of Government push.

### Alternative Fuel Energy

The Ministry of New and Renewable Energy is supporting research, development and demonstration projects on various alternative fuels such as biofuels and hydrogen at Universities, Indian Institutes of Technology, Engineering Colleges, Public Sector Undertakings, Industries, etc. Grants upto 100 per cent of project cost to educational and research institutions and upto 50 per cent to industries is provided for undertaking research, development and demonstration projects.

The expenditure incurred on research, development and demonstration projects on biofuels and hydrogen during the last three years i.e. 2008-09 to 2010-11 is Rs 32.14 crore and is Rs 4.21 crore in the current year 2011-12 (upto 28th November, 2011).

While a target of 20% blending of biofuels in diesel and petrol by the year 2017 has been indicated in the National policy on Biofuels announced in December 2009, a mandatory target of 5% blending of ethanol with petrol and recommendatory target of 5% blending of bio-diesel with diesel is in force since October 2009. The use of hydrogen as alternate fuel or as blend with other fossil fuels is still under research and development and no time frame has so far been set for this purpose.

### Tidal Power Project

Dr. Farooq Abdullah, Minister of New and Renewable Energy, Government of India has recently informed the members of Rajya Sabha that the MNRE has sanctioned a demonstration project for setting up 3.75 MW capacity Tidal Energy Power Plant at Durgaduani Creek in Sunderbans region to West Bengal Renewable Energy Development Agency (WBREDA), Kolkata. In response to the query on successful model of this kind functioning in any part of the world, Dr. Abdullah said that only a few sea tide and wave projects have been taken up in France, Canada, China, Russia and South Korea.

## INTERNATIONAL

**Suzlon signs 55.5 mw of wind turbine deals in Britain**

Pune-based Suzlon Group's wholly owned subsidiary Repower Systems signed three deals for a total of 55.5 megawatts of wind turbines for development sites in Britain. The agreements are with Ridgewind/HG Capital for its 24.6 mw Hall Farm project in North Humber-side; Germany-based Renenco Renewable Energy Concepts AG for the 10.25-mw Earls Hall Farm in Essex; and AES Wind Generation subsidiary Your Energy for turbines for the 20.5 mw Sixpenny Wood wind farm in Yorkshire.

Repower could be delivering 27 wind turbines in total for the three projects. All three are seen beginning construction next year for completion before the year ends. Power generated would be enough for nearly 46,000 homes annually.

The contract for Sixpenny Wood and Earls Hall Farm are the first that Repower signed with AES Wind Generation and Renenco, respectively.

**Deal to supply 20.5 MW to Sixpenny Wood wind farm**

REpower has signed a deal to supply 20.5 MW to Sixpenny Wood wind farm, which has been developed by Your Energy, a subsidiary of AES Wind Generation. The wind farm, located 2.5 miles east of Howden, in the East Riding of Yorkshire, consists of 10 MM92 REpower machines. The turbines at Sixpenny Wood, with a rated output of 2.05 MW each, will generate enough electricity to power the equivalent of nearly 12,000 homes annually. Installation of the wind turbines will start in mid-2012 and the wind farm is expected to be complete by the end of the year.

**Google to develop 4 solar farms at \$94 mn**

Google is teaming with investment firm Kohlberg Kravis Roberts & CO (KKR) to develop four solar energy farms serving the Sacramento Municipal Utility District in California. Google, Inc said recently on its Green Blog that it will spend \$94 million on the projects. They also will receive equity from SunTap Energy RE LLC, a venture formed by KKR to invest in US solar projects.

The projects are expected to provide electricity to power more than 13,000 average US homes. Electricity produced by three of the projects is contracted for 20 years with the utility district. Construction on three of the four projects will be complete early next year, and the fourth will come on line later in the year.

KKR said SunTap represents its first

US renewable energy investment. It also has invested in a French wind farm operator and a Spanish solar energy company. Google said it has invested more than \$915 million in clean energy projects, including \$800 million this year.

**China says India may probe imports of solar products**

India may launch an anti-dumping probe into imports of Chinese solar products within a month, China's Commerce Ministry said, but a top Indian official denied on December 20 that any such plan was in the works. If New Delhi investigates allegations of unfair Chinese trade in the solar energy sector, it could be yet another challenge for China's solar companies, weeks after the United States decided to probe sales of their solar panels. China's Commerce Ministry said in a statement two days ago that India might launch an anti-dumping probe within a month. It gave no further details. But state-run Indian Renewable Energy Development Agency denied there was any such plan to lodge an investigation against Chinese solar imports. "China is getting unduly worried about this as it is a massive manufacturing centre which feels it may not be able to participate in the Indian market," said Debashish Majumdar, Chairman and Managing Director of Indian Renewable Energy Development Agency.

**Green projects worth \$4 bn at WFES 2012**

The combined value of renewable energy projects confirmed for the Project Village at the 2012 World Future Energy Summit (WFES) has reached more than \$4bn. Flagship projects already confirmed for the Project Village include a 200 mw wind farm under development on the Gulf of Suez, led by Egypt's New and Renewable Energy Authority; a 160 mw solar power plant in Morocco; and the \$400 mn Shams Ma'an photovoltaic power plant under way in Jordan. A total of 25 projects, spanning photovoltaic power, wind energy, solar thermal, waste-to-energy, concentrated solar power and other technologies have already confirmed for the Project Village, which highlights selected projects from MENA countries, India and other international markets. Introduced at WFES 2011 as a business and networking platform for project owners, developers and solutions providers, the Project Village complements a growing pipeline of renewable energy initiatives - from the world's largest concentrated solar power plant Shams 1, located in Abu Dhabi's Western Region, to the 1,000 mw London Array wind farm. WFES exhibition Director Naji El Haddad says that the increasing interest in the Project Village component of the summit demonstrates the success of WFES as a marketplace for technology suppliers, investors and

other stakeholders committed to the realisation of clean energy. "Through the Project Village, we bring together the decision makers that can action real progress on existing partnerships and agree new collaborations. Confirmations for the Project Village for 2012 indicate the growing involvement of the private sector in the renewable energy space and reflect Abu Dhabi's leadership in developing renewable projects in the Middle East and overseas markets," Haddad said. Countries represented at the Project Village so far include the UAE, Saudi Arabia, Egypt, Jordan, Morocco, India, South Africa, Sudan, the UK and US. Supported by IRENA and held in association with Ernst & Young and Bloomberg New Energy Finance, the initiative highlights both new and planned developments, helping to source technology, secure financing and enter into business partnerships.

**US given impetus to renewable energy**

The Obama administration in the US acted on December 20 to boost renewable energy on both coasts, approving onshore solar and wind farms in the West and pushing for offshore wind power in the Atlantic Ocean. Interior Secretary Ken Salazar said his department has approved a 300-megawatt solar farm on public land in Arizona and a 200-megawatt wind farm in Southern California. The wind farm includes 186 megawatts that would be produced on federal lands. The projects, southwest of Phoenix and east of San Diego, respectively, are the 24th and 25th renewable energy projects approved on public lands in the past two years, Salazar said that the administration's commitment to renewable energy is paying dividends.

**CG team wins German wind farm project**

Crompton Greaves is a part of a consortium of four companies that has bagged a turnkey contract from Amrumbank West for its German wind farm project. Amrumbank West GmbH (AWG) is a wholly owned subsidiary company of E.ON Climate & Renewables Central Europe.

The Amrumbank West Wind farm is 40 km offshore in the North Sea. An offshore substation will transform the voltage to 155 kilovolt (kv) and transmit about 300 megawatt (mw) to the grid, operated by Tennet TSO (Transmission System Operator). Crompton Greaves said the wind farm will have 80 mw wind turbines. It will design, engineer, supply and integrate all critical high voltage power equipment to connect the 33 kv and 155 kv networks, including power transformers, high voltage and medium voltage switchgear and automation equipment.

### Renewable Energy Projects

Sr. No.	Company Name	Project Title / Details	Location	Budget (Rs Crore)	Contacts	Type
1	Areva T&D India Ltd	Bagged an order from North Eastern Electric Power Corporation for supply of switchyard and transformers package for Pare Hydro Electric project 2x55 MW (110 MW) at Papumpare District in Arunachal Pradesh.	Papumpare District Arunachal Pradesh	22.5	Vandana Dhir, Regional Communications, Manager, A-7, Sector – 65, Noida– 201301, Uttar Pradesh. Tel: 0120-4790000, Fax: 4791140	Contract
2	Bhoruka Power Corporation (BPCL)	Plans to set up a 15-MW hydel power plant at Gulbarga. The work is likely to start in 6 months. The completion period is two years from zero date.	Gulbarga Karnataka	NA	K R Kamat, General Manager-Hydel, Hitananda II, 48, Lavelle Road, Bangalore - 560001. Karnataka. Tel: 080- 2227271, 72, Fax: 22245246, info@bhorukapower.com	New Project
3	Fortune Five Hydel Projects Pvt Ltd	Plans to setup 100 MW wind turbine based power project at Bijapur District at Karnataka. Bids are recently invited in this regard.	Bijapur Karnataka		Plot No. 1071, Road No. 44, Jubilee Hills, Hyderabad - 33. Tel: 040-40301000, Fax: 040-23555503	Tender
4	Globe Coke Pvt Ltd	Plans to setup a 12 MW WHR based CPP at Khiri. The work is likely to start by next fiscal and completion is targeted in two years.	Jamnagar Gujarat	NA	B K Mishra, Sr. GM, 303 Prasham Bldg, Kasturba Road Kasturbadham, Rajkot -360020, Gujarat. Tel: 0281-2490223/2490224. Fax: 2490226, M: 09377662397	New Project
5	Gujarat Fluorochemicals Ltd	The company has commissioned 50 MW wind farm project at Chotila in Gujarat. It based on Wind Turbine Generators manufactured by the Company's subsidiary Inox Wind Ltd.	Chotila Gujarat	NA	Bhupesh Juneja, VP-Projects, INOX Towers, Plot No. 17, Sector 16-A, Noida - 201301 Uttar Pradesh. Tel: 0120-6149600, Fax: 6149610, bjuneja@gfl.co.in	Project Update
6	Himachal Pradesh Power Corporation Ltd	Technical bids are under evaluation for EPC Contract package related to 450 MW Shongtong-Karcham Hydroelectric project.	Kinnaur District Himachal Pradesh	NA	K.D Sharda, General Manager (Contracts), Himfed Bhawan, Below Old MLA Quarters, Bypass Road, Tutikandi, Shimla-171005, Himachal Pradesh. Tel: 0177-2633812, 2633815, Fax: 2633813	Tender
7	M P Power Trading Co Ltd	Plans to set up solar power projects in Madhya Pradesh. Request for selection invited for developers for supply of minimum 5 MW solar power for 25 years through a competitive bidding process (total capacity requirement 200 MW). Submission Date: 31/01/2012	Madhya Pradesh	NA	Chief General Manager (IPC), Shakti Bhawan, Vidyut Nagar, Rampur Jabalpur, Madhya Pradesh. Tel: 0761-2660909, 2702900, Fax: 2664749.	Tender
8	NALCO	Plans to set up 15 (±10%) MW grid connected solar power project. Bids in this regard will be finalised in 3 months.	Bhubaneswar Orissa	NA	D. Das, AGM (BD), NALCO Bhavan, P/1, Nayapalli, Bhubaneswar - 751061, Orissa. Tel: 0674-2300275, Fax:2300789. ddas@nalcoindia.co.in	New Project
9	Rajasthan Renewable Energy Corporation Ltd	The corporation is setting up grid connected 5/10 MW AC solar PV projects of total capacity 100 MW in Rajasthan under phase-1 of Rajasthan Solar Energy Policy 2011. Request for selection invited in this regard. Submission Date: 30/01/2012	Rajasthan	NA	CMD, E-166, Yudhisthir Marg, C-Scheme, Jaipur Rajasthan. Tel: 0141-2221650, 2229341, 2229055, Fax: 2226028, rrec_jai@yahoo.co.in	Tender
10	Reliance Power Ltd	"Plans to set up 40 MW solar photovoltaic power plant at Dahanu in Jaisalmer District. This project is expected to be completed by the second quarter of 2012. Asian Development Bank (ADB) will provide a long-term loan of upto \$48 million for this project."	Jaisalmer Rajasthan	NA	Madhuri Naidu, Corp Comm, 'H' Block, 1st Floor, Dhirubhai Ambani Knowledge City, Navi Mumbai – 400710. Tel: 022- 39138289, 30386600, 30386290, Fax: 30376622, madhuri.naidu@relianceada.com	New Project

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