

CLEAN ENERGY OPPORTUNITIES BULLETIN



Introduction

Winrock International prepared the following *Clean Energy Opportunities Bulletin* with funding from the US Agency for International Development (USAID) under the Leaders with Associates (LWA) Cooperative Agreement.



This is a revised and updated version of the *Renewable Energy State of the Industry Report* series of reports, which have been prepared and distributed on a quarterly basis to the RE industry and other stakeholders since 1999. The *Bulletin* provides information on recent developments in key countries in terms of market opportunities, policy, finance and projects for clean energy technologies.



Winrock International's Clean Energy Group (CEG) was established in 1989 to increase sustainable development in developing countries through the use of clean energy technologies, when and where they are the appropriate application. CEG provides technical and market-oriented assistance to public and private sector organizations to assist with deploying commercially viable renewable energy technologies and building local capacity.



US renewable energy companies have consistently identified market information as one of their most urgent needs. Considering the lack of a dedicated institution to play the market facilitation role and Winrock's network of well-established in-country offices and partners, CEG is in an excellent position to fill this gap by preparing and disseminating current renewable energy market information from key countries.



Contributors in this issue included:
Winrock International Brazil
AHPPER, Honduras
Winrock International India
REPSO Nepal
Preferred Energy Inc., Philippines
Solar Engineering Services, South Africa
YBUL, Indonesia



Brazil

Important Acronyms:

PROINFA Alternative Energy Incentive Program

SHP Small Hydro Plant

Macro Political and Macro Economic Environment

ANEEL Approves Criteria for Energy Supply through Individual Generation Systems

The criteria and conditions for energy supply through individual generation systems with intermittent sources (SIGFI – Sistemas Individuais de Geração de Energia Elétrica com Fontes Intermitentes) have been approved by ANEEL. The decision will benefit consumers and isolated communities where conventional energy supply is unfeasible. The expectation is that SIGFI will use mainly wind and solar PV technologies.

The individual systems must guarantee the supply of at least 13 kWh per month, charging the minimum fee correspondent to this value. The regulation foresees the installation of energy meters to systems with capacity over 30 kWh per month. The consumers attended by SIGFI will pay the regular tariffs of each concessionaire.

The energy supply of such systems will be made with alternating current and voltage equal to that normally used within the conventional distribution systems. However, the quality standards will be compatible with the technology chosen.

For more information: www.aneel.gov.br

Biodiesel Included in Brazilian Energy Matrix

The Provisional Measure 214/04, which includes biodiesel, to be mixed with diesel oil and used as fuel, in the Brazilian Energy Matrix was sent to the Brazilian Congress on September 14.

The goal of the Executive Order, with the addition of the Provisional Measure, is to take advantage of Brazil's natural resources to produce biodiesel, which can be produced from vegetable oils like castor, palm tree, and sunflower.

According to the Ministry of Mines and Energy, the addition of 2% of biodiesel to diesel oil will be authorized until November. The National Petroleum Agency will be responsible for the regulation of the production, storage, distribution and resale of the product.

The Provisional Measure must be voted on by the Congress before October 28, because after that it will lock the voting agenda.

The National Petroleum Agency is receiving contributions to the Public Hearing on the Biodiesel Regulatory Framework. The deadline to submit contributions is October 7, 2004. For more information see: http://www.anp.gov.br/conheca/consulta_biodiesel.asp and : www.camara.gov.br

Clean Energy Financing

No clean energy financing was reported on this quarter.

Clean Energy Equipment/Services Procurement Notices

No procurement notices were issued this quarter.

Partnering Opportunities

No partnering opportunities were identified this quarter.

Project and General News

No project news this quarter.

Calendar of Events

No events this quarter.



Honduras

Important Acronyms:

<i>AHPPER</i>	<i>Honduras Association of Small Scale Renewable Energy Producers</i>
<i>DGE</i>	<i>National Directorate of Energy</i>
<i>ENEE</i>	<i>National Electric Energy Company</i>
<i>CABEI</i>	<i>Central American Bank of Economic Integration</i>
<i>BGA</i>	<i>Banco Grupo el Ahorro Hondureño</i>

Macro Political and Macro Economic Environment

US \$87 Approved to Enhance Capacity of Electric Sector

BCIE approved US \$87 million to enhance the capacity of the electric sector in Honduras. Pablo Schneider, BCIE president, said this project represents a global investment of US\$ 180.1 million.

This investment will allow the installation of a thermal plant to generate 250.7 M which will be operated by LUFUSSA, in the south region of Honduras.

Honduras will have an annual savings of US\$40.6 million in its energy purchases, because this plant will use very advanced technology.

www.casapresidencial.hn

Clean Energy Financing

Multilateral Investment Fund to Finance Entrepreneurs

The Multilateral Investment Fund announced today the approval of 5 million dollars to finance entrepreneurs interested in small- and medium-sized projects that include renewable energy, clean production, and energy efficiency in Central America.

This fund will be the principal investor in the Central American program to improve renewable energy and clean development mechanism; its capitalization could reach from 15-20 million dollars.

It is expected that the program will be supported by other international and bilateral development institutions financed through economic tools to the PYME in Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua and Panama. The eligible firms must have under 100 employees and annual incomes under US\$5 million and they must achieve the initial stages of their entrepreneurial development.

CAREC will focus its attention on companies that use renewable energy high efficiency technologies of like hydro, wind, geothermal and biomass.

Source: Banco Interamericano de Desarrollo BID

Clean Energy Equipment/ Services Procurement Notices

AHPPER is in contact with many companies that sell equipment for renewable energy projects and has a good relationship with ALSTOM, Canyon Industries, Flowtite, ATEPSA and others that work in the solar sector.

They send us information about their products and we send this to our members so that they can negotiate directly.

Partnering Opportunities

AHPPER is speaking with some organizations like BUN-CA, ACOPE, FENERCA (and others) to try to establish working agreements to exchange information about the renewable energy sector in Honduras, and to receive financial support from them.

Project and General News

AHPPER is a member of the committee for the formulation of the national renewable energy and energy efficiency policy, and participated in a workshop to introduce the methodology to be used in this process. The workshop was held on October 11-15, at the Yojoa Lake.

www.serna.gob.hn

AHPPER is looking for international support to finance a project to promote renewable energy in Honduras, in

the amount of US\$20,000.00, having had conversations about this with PNUD and BCIE.

Calendar of Events

AHPPER conducted the II Conference of renewable energy in La Esperanza on October 23-24. Members of the government, international representatives of equipment suppliers, etc. participated in this event, along with AHPPER members.

ahpper@multivisionhn.net

AHPPER is a member of the committee of the Expo-Energía 2005, an event which will be a showcase for products and services needed for the renewable energy sector. The even will also facilitate the exchange of information and of experiences among the countries of Central America and the rest of the world, which is indispensable in expediting the sustainable development of the Central American Region.



India

Important Acronyms:

BJP *Bharatiya Janata Party*

CMIE *Center for Monitoring Indian Economy*

Macro Political and Macro Economic Environment

Inflation Falls to 7.81%

In September 2004, the annual wholesale price inflation rate fell to 7.81% due to lower prices of oilseeds and poultry and a higher base effect. The rise exceeded the median forecast in a Reuters poll, which had estimated the rate to be 7.60%, compared with 8.33% a week before.

The closely tracked inflation rate has spiraled from 4.32% in late April, posing a challenge for the government, which does not want to wield the interest rate weapon out of fear of depressing growth. Economists have already cut their forecasts of growth to March 2005 to between 5.5 and 6.5% from 7 to 8% because of a delay in monsoon rains in the key sowing month of July.

The Congress-led coalition government has taken a series of steps, such as cutting duties on steel and petroleum products, cutting import tariff value for edible oils, and increasing the cash reserve ratio (CRR) for banks to check soaring inflation. The CRR prescribes the amount of deposits banks must place with the central bank and thus regulates liquidity.

However, much of the upside surprise appears to have been contributed by the volatile prices of fruits and vegetable which might have been hit by the truckers' strike. In a vast country like India, commodities from food to manufactured items like scooters and cars are mostly transported by road, and a strike by trucks can cripple growth by affecting industrial production as well as stoke inflation.

Link to story:

<http://economictimes.indiatimes.com/articleshow/854173.cms>

World Bank, ADB Reps to Remain in Panel's Consultative Groups

The rhetorical skirmishes in the ruling alliance over the presence of World Bank and ADB staffers in the Planning Commission were revived after Montek Singh Ahluwalia's assertion that they will continue to be part of the Plan panel's consultative groups. "We see nothing wrong in getting to know their views. We will continue including representatives from the World Bank and other multilateral agencies on the consultative committees until instructed otherwise," Mr. Ahluwalia said.

It may be recalled that Mr. Ahluwalia wrote to the Left leaders explaining the government's position. In his letter, he said that the commission has put in three to four people from the ADB, World Bank and a few people from consulting firms like McKinsey and BCG, along with representatives from the private sector, NGOs like Sewa, trade unions and academia. The Bank staffers will serve on these committees on par with other members from the academic, NGO and trade union sectors.

Link to story:

<http://economictimes.indiatimes.com/articleshow/857772.cms>

PM to Discuss Strategic Partnership with President Bush

Prime Minister Manmohan Singh arrived in New York in late September for the first major diplomatic visit that included talks with US President George W. Bush, Pakistan President Pervez Musharraf and an address to the UN General Assembly.

Singh held a breakfast meeting with Bush during which the two leaders discussed increasing the Indo-US strategic partnership, shared non-proliferation and security concerns on the global war against terrorism and talked about the high technology transfer to India.

Singh said that Bush's meeting with him in the midst of hectic the pre-election campaign for the US Presidential

election indicates the importance Washington attaches to strengthening relations with India. A joint statement was to be issued after the parleys, he said, observing that both sides are committed to further consolidating bilateral relations.

Noting that in the last five years many restrictions have been placed by the US on India in high technology areas, the Prime Minister hoped there would be considerable relaxation in this matter. According to informed sources, what the Americans agreed to was to remove 75 to 85 percent of the licensing requirements for such key areas as the Indian Space Research Organization and its subsidiaries. The requirements for application for Indian imports of dual-use items will be reduced by 25 percent.

India pointed out that Indian multinationals are beginning to invest in the US and that the opportunities in India for US multinationals and other companies are much greater than have been taken advantage of so far.

"We are a power to reckon with. A new India is emerging. India is on the move." One of the interesting meetings Singh had was a G-4 meeting, hosted by Japan, it included the heads of delegations of Japan, India, Brazil and Germany

Link to story:

<http://economictimes.indiatimes.com/articleshow/857920.cms>

For a copy of the Indian Prime Minister's statement at his first press conference on 4 Sept, please go to <http://in.rediff.com/news/2004/sep/04pm1.htm>

Indian Government Ready to Accept Bilateral Aid

The UPA government in India has reversed the 2003 decision of the earlier government not to accept bilateral aid from foreign countries. Bilateral development assistance will be accepted from all G-8 countries, namely, the US, the UK, Japan, Germany, France, Italy, Canada and Russia, as well as the European Commission, an official press release said. India will also receive bilateral aid from countries of the European Union outside the G-8 provided they give a minimum bilateral aid package of \$25 million per annum. All other countries can consider providing aid directly to autonomous institutions, universities, and NGOs in India.

Source: The Times of India, New Delhi, 21 September 2004

Clean Energy Financing

In India investment opportunities are available for foreign investors in the following areas of renewable energy:

Wind, Solar Photovoltaic, Solar Thermal, Small Hydro, Biomass, Cogeneration, Geothermal, Tidal and Urban & Industrial Wastes based power projects.

Foreign Investment Policy

Foreign Investors can enter into a joint venture with an Indian partner for financial and/or technical collaboration and also for setting up of renewable energy-based Power Generation Projects.

- Liberalized foreign investment approval regime to facilitate foreign investment and transfer of technology through joint ventures.
- Proposals for up to 74% foreign equity participation in a joint venture qualify for automatic approval.
- 100% foreign investment as equity is permissible with the approval of Foreign Investment Promotion Board (FIPB).
- Various Chambers of Commerce and Industry Associations in India can be approached for providing guidance to the Investors in finding appropriate partners.
- Foreign Investors can also set up a liaison office in India.
- Government of India is also encouraging foreign Investors to set up renewable energy based-power generation projects on Build/Own/Operate basis.

Source: <http://mnes.nic.in/frame.htm?invopp.htm>

Clean Energy Equipment/Services Procurement Notices

Upcoming Events

Executing Agency: Eastern Railway – West Bengal
Express Interest by: 5 Nov 2004

Scope: Replacement of K. Oil lit Semaphore signal lamps by LED IIT Signal lamps with solar panels in E route.

Recent Events

Executing Agency: Mumbai Port Trust - Maharashtra
Due date: 5 Oct 2004

Scope: Supply, installation, testing and commissioning of solar power generation system for VHF Communication
Contact: Mumbai Port Trust, Port House, Shoorji Vallabhdas Marg, Mumbai 400 001; Fax: +91-22-22611011; Email: mbpt@vsnl.com

Executing Agency: Department of Forests - Maharashtra
Due date: 29 September 2004

Scope: Comprehensive annual maintenance contract for the wireless network in Tansa Sanctuary for a) Fixed stations, b) Man packs, c) Solar Panels
Web: <http://www.mahaforest.nic.in>

Executing Agency: Northern Railway - Delhi
Due date: 18 October 2004
Scope: Provision of solar power panels for 9 stations

Executing Agency: Krishna Sahakari Sakhar Karkhana Limited, Maharashtra
Due date: 5 October 2004
Scope: Design, supply, erection and commissioning of a 900 m³/day biogas plant for the treatment of distillery effluent generated from a cane molasses-based batch fermentation plant and civil and structural work for the above units.

Executing Agency: Non-conventional Energy Development Agency – Uttar Pradesh
Due date: 22 September 2004
Scope: Supply and installation of a solar power system for energizing computers
Contact: Director, Non-conventional Energy Development Agency of UP, Vibhuti Khand, Gomati Nagar, Lucknow 226010; Tel: 0522-2392942-3

Executing Agency: Northern Railway - Haryana
Due date: 26 October 2004
Scope: Provision of a solar panel for charging batteries

Further details are available at
www.tenders.indiamart.com

Partnering Opportunities

No partnering opportunities this quarter.

Project and General News

Draft Indian National Environmental Policy

The draft Indian National Environment Policy has been uploaded for comments on the Ministry of Environment & Forests (MoEF) web site (www.envfor.nic.in).

Centre to Push Biofuels

22 September, Online News From Thestatesman.net

As part of the effort to reduce petroleum imports and introduce ecological measures, the Prime Minister's Office is holding a high-level meeting on biofuels this week. Mr TK Nair, principal secretary to the Prime Minister, Dr Manmohan Singh, is chairing a meeting on biofuels for

which Secretaries of the Ministries of Rural Development, Agriculture, Petroleum, Non-conventional Energy and the Planning Commission and also, a senior official from the Council of Scientific and Industrial Research have been called. The report will be placed before the PM immediately after his return.

The President, Dr APJ Abdul Kalam, is also 'pushing' biofuels and has said cultivation of jatropha seeds for biofuels could reduce the number of unemployed people in India by half in the long term. The Planning Commission has been pushing for a national mission on biofuels.

IOC to Establish Institute of Energy & Environment

Major corporate and public sector companies have shown interest in implementing renewable energy projects. Oil and gas companies, such as Indian Oil Corporation (IOC) and the Gas Authority of India Ltd., are planning to diversify and implement renewable energy projects. IOC plans to invest \$140 million to establish an Institute of Energy and Environment, which will focus on renewable energy sources.

New Power Policy awaits Cabinet Nod

26 September,

<http://www.blonnet.com/2004/09/27/stories/2004092702220300.htm>

The Union Power Ministry is awaiting Cabinet approval to announce the new power policy that would outline the country's power sector strategy. At a press conference here on Sunday, the Union Power Minister, Mr PM Sayeed, and the Union Power Secretary, Mr RV Shahi, said the draft national policy, prepared in consultation with State Governments and conforming to the National Common Minimum Programme, would be ratified shortly after Cabinet approval. This policy would be followed with a new tariff policy.

The Central Electricity Regulatory Commission issued guidelines for implementing open access in transmission in January 2004 and this led to three States announcing open access regimes. However, the new policy framework, which follows the Electricity Act 2003, will come up with a broad framework for the power sector, including private sector participation.

While the Electricity Act, 2003, has created a liberal and transparent framework for overall power sector development, several states have expressed difficulties in conforming to its provisions. To address their difficulties, 13 states have been given time ranging from four months to a year for reorganizing their electricity boards. Consequently, they have time till June 2005 for separating trading of electricity from state transmission utilities.

Giving an overview of the power sector performance, Mr Sayeed said out of the targeted capacity addition of 41,000

MW during the Tenth Plan, 7,458 MW has already been commissioned, 27,112 MW is under execution, and the balance is under various stages of approval. In addition, about 3,000 MW are expected to be added through non-conventional energy sources and small hydel stations. Further, there is the possibility of additional capacity generation of about 3,000 MW through natural gas-based projects in the Krishna-Godavari basin.

Winrock International India (WII) Recent Clean Energy Activities

International Conference on Biofuels

"If we can achieve *jatropha* plantations on 11 million hectares of wastelands, we can generate 11 million jobs for the rural people," said Montek Singh Ahluwalia, Deputy Chairman of the Planning Commission at this International Biofuels Conference organized by Winrock International India in Delhi on 16-17 September.

"The Planning Commission has set up a committee headed by Kirit Parikh, Energy Expert, under the Tenth Plan to draft the future energy policy which will be tabled in January 2005. A lot of focus is being put on renewable energy, and it will help the biofuels sector if the government is able to offer tax incentives," added Mr Ahluwalia.

Jatropha curcas is one of the plants whose seed can be used to produce biodiesel that can replace the polluting diesel in our vehicles. The Planning Commission's focus is on promoting biofuels for the transport sector.

Biodiesel to electrify villages in Chattisgarh state

An innovative project has begun in Chattisgarh state to produce biodiesel from plantations of tree-borne oil seeds (TBOs) such as *Jatropha curcas* and *Pongamia pinnata*. These plantations will be grown on arid land and wastelands in villages, and oil will be extracted from the seeds. The oil will be converted into biodiesel and fed into diesel generating sets, which will produce electricity. The entire process, from creating plantations to supplying the power will be managed by the villagers themselves, who will also decide the tariff for the power.

Chhattisgarh was chosen because forests of *jatropha* plants grow here naturally. Once the project becomes successful, the model will be replicated throughout the country. Winrock International India is executing the project in partnership with the British Government.

SARI/Energy Small Grants Program Update

USAID awarded over \$400,000 in small but strategic grants to energy research and outreach organizations from India, Bangladesh, Bhutan, Nepal and Sri Lanka. USAID's

South Asia Regional Initiative (SARI)/Energy Small Grants program, implemented by Winrock International, Winrock International India, and the Institute of International Education, to support eighteen noteworthy energy cooperation initiatives in South Asia.

The Round III RFP has been announced in the same 6 countries. Also, a Regional Grantees Meeting was organized in early October in India for the Round I grantees to share their experiences with other stakeholders.

In-Plant Training on Bagasse-based Cogeneration in Sugar Mills

In a continuation of the extensive activities conducted under USAID's Greenhouse Gas Pollution Prevention (GEP) Project's Alternative Bagasse Cogeneration (ABC) component (completed in June 2003), WII independently organized an in-plant training program in February 2004 at Godavari Sugar Mills Ltd, an ex-GEP-ABC grantee with a fully automatic 24-MW high-efficiency cogeneration plant with state-of-the-art technology. WII also took a delegation of 10 sugarmill representatives to Mauritius in December 2003 as their cogeneration plants employ very high steam pressure and temperature configurations leading to very high efficiencies. One plant alone supplies 22% of the Mauritius' power.

A second in-plant training program has been announced for December 2004. Interested sugar mills (from other countries as well) should contact <akhuller@winrockindia.org>

Calendar of Events

Upcoming Events

Energy Expo 2004, 3-5 of December 2004, Ahmedabad, India

Organized by: Confederation of Indian Industry (CII)
Contact: darryl.dasilva@ciionline.org or
abhijit.mukherjee@ciionline.org

16th International Engineering & Technology Fair (IETF 2005)

9-12 February 2005, Pragati Maidan, New Delhi, India
Organized by: Confederation of Indian Industry

Contact: rekha.sethi@ciionline.org

Recent Events

7th India Power Forum & 4th Renewable Energy Summit, 29-30 September 2004, New Delhi, India
Organized by: ASSOCHAM and the India Energy Forum
Email: energy.forum@assochem.com /
assochem@sansad.nic.in

1st International Conference on Renewable Energy, 6-8 October 2004, New Delhi, India
Organized by: Central Board of Irrigation & Power
Web: <http://www.cbip.org/evntcbip.htm>

CII National Conference & Exposition on Captive Power Plants, 20 October 2004, New Delhi, India
Organized by: Confederation of Indian Industry (CII)
Web: <http://www.ciionline.org>

Power India 2004, 25-28 October 2004, Mumbai, India
Organized by: India-Tech Foundation
Contact: itf@india-tech.com
Web: www.india-tech.com

FOR ALL OF THE ABOVE, PLEASE ALSO FEEL FREE TO CONTACT ANITA KHULLER AT akhuller@winrockindia.org or refer to our web site www.winrockindia.org



Indonesia

Important Acronyms:

DGEEU	<i>Directorate General of Electricity and Energy Utilization</i>
PLN	<i>State Company Electricity Utilization</i>
PLTD	<i>Diesel Oil Power Plant</i>
PLTG	<i>Gas Power Plant</i>
BI	<i>Bank of Indonesia (The Central Bank)</i>
GDP	<i>Gross Domestic Product</i>
CPI	<i>Consumer Price Index</i>
IMF	<i>International Monetary Funds</i>
SBI	<i>BI promissory note</i>
ADB	<i>Asia Development Bank</i>
YBUL	<i>Yayasan Bina Usaha Lingkungan</i>
Trn	<i>Trillion</i>
Bn	<i>Billion</i>
PLTP	<i>Geothermal Power Plant</i>

Macro Political and Macro Economic Environment

The Impact of the Elections on ASEAN

The last decade has seen tremendous pressure for greater democratization in Southeast Asia. This pressure will be sustained as Indonesia will hold its general election next year, a process that will determine the country's destiny at the global as well as regional and national level. It is also during such an occasion that the world will witness how the fate and the future of the Indonesian nation, economically and politically, is decided and contested through the ballot box.

Once the elections are over, generally people demand greater peace, security and stability. They also demand sustained economic growth, more prosperity and justice. Furthermore, they will also want a legitimate government which is clean and transparent. However, the process toward a more democratic Indonesia alone is certainly not enough.

Indonesia must go beyond democracy to address something more encompassing and more fruitful and promising; that is good governance.

The countries in Southeast Asia will be very anxious to see whether Indonesia can survive the election process peacefully.

The outcome of Indonesia's experiment in democracy would certainly have a major impact in shaping the political evolution of Southeast Asia as well as the long-term stability and security of the region.

The coming general election will be very different from the previous ones, because of the application of a new system and rules.

Indonesia will have its first ever direct presidential election, and this will have far-reaching implications for democracy and stability in Asia and Southeast Asia in particular.

Link to story:

www.thejakartapost.com/outlook/pol17.asp

Indonesia: An Economy that Lacks Dynamism

Over the last nine months, inflation and interest rates have continued to fall. Fiscal consolidation and bank and corporate sector restructuring is continuing, while capital outflow has turned into an inflow. Favorable macroeconomic conditions have been translated into positive consumer confidence and business sentiment.

However, there is little evidence that increasing macroeconomic stability and reduced vulnerability is translating into higher growth. Growth has been mainly driven by consumption and investment, while exports weakened and the slowdown in manufacturing growth continues to drag down overall growth. It is likely that Indonesia may settle into a medium-low growth equilibrium unless measures are taken to invigorate exports and the manufacturing sector.

One of the important factors behind the modest growth performance is the weakening of the manufacturing sector. The following figures clearly indicate the decelerating trend in manufacturing growth (year-on-year) since the first quarter of 2000.

Prior to the crisis, manufacturing industries were growing at a rate of 10% per annum, much higher than the overall rate of GDP growth. The growth rate declined considerably to a meager 3.8% during 2000-2003. The weakening of the manufacturing sector took place across the board, notably in the large resource intensive sector such as petroleum and gas; food, beverages and tobacco; wood and wood products; and paper and printing. However, amidst the gloomy picture, we witnessed an outstanding performance by chemical industries, transport equipment and other manufacturing products.

Missed Opportunity

Elsewhere in this edition, economist M. Chatib Basri shows that one factor that distinguishes Indonesia's growth performance from the rest of the crisis-affected countries is Indonesia's poor export performance. The following figures confirm Chatib Basri's observation and the previous discussion on economic growth.

Link to story:

www.thejakartapost.com/outlook/eco10.asp

Economic Policy

The consumer price index rose 0.36% in July from the previous month, bringing the inflation rate in the first seven months of this year up to 3.69%, Chief of the Central Bureau of Statistics (BPS) Choiril Maksum said Monday. Year on year inflation was 7.2% in July.

BPS attributed the rise in inflation to the increase of education, tourism and recreational costs.

Maksum predicted inflation will accelerate in the coming months due to celebration of religious festivals. In November Moslems will celebrate Ramadhan and Idul Fitri and in December Christians will celebrate Christmas.

The government has targeted a 7.0% increase in the consumer price index in 2004

Link to story:

www.dprin.go.id/english/publikasi/news_bsc/2004/200408031

Inflation

Inflation during August is 0.09 percent and 3.78 percent for January-August 2004. Hence year-on-year inflation (August 2004 to August 2003) is 6.67 percent. The 2004 state budget assumes an inflation rate of 6.5 percent for the full year.

Link to story: www.bps.go.id/releases/New/1-Sep-2004.htm

Clean Energy Financing

Tangguh Inks Third LNG Deal

British energy giant BP PLC in early October signed a US\$2 billion deal to supply liquefied natural gas (LNG) from its Tangguh LNG project in Papua province to South Korea's power company K Power.

BP will supply 600,000 metric tons of the fuel a year for 20 years, starting from 2006, to K Power, with an option for the South Korean firm to ask for an additional supply of up to 200,000 metric tons per year.

K Power will use the fuel to fire a 1,074 megawatt power plant which is under construction in Gwangyang, South Korea.

Minister of Energy and Mineral Resources Purnomo Yusgiantoro said the deal was significant for Indonesia in maintaining its lead in the LNG market.

"The contract will add more strength to Indonesia as a leading LNG supplier," Purnomo said in a speech after witnessing the signing of the deal by BP Indonesia's president Bill Schrader and K Power's president Young Duk Park.

Indonesia has been struggling to maintain its position as a top LNG producers in the increasingly competitive market. Last year, Indonesia exported 26.5 million tons of LNG. The bulk of LNG exports went to Japan (68 percent), followed by South Korea (19 percent) and Taiwan (13 percent).

The contract with K Power was the third for the Tangguh project. BP signed an LNG deal in 2002 to supply 2.6 million metric tons to China's Fujian province for 20 years starting 2007.

In September, it signed a deal to supply 550,000 metric tons of the fuel to South Korea's steelmaker POSCO, starting 2005.

With the three LNG deals, Tangguh project has a total sales commitment of 3.75 million tons.

Eddy Purwanto, Deputy Head of Finance and Marketing of the Oil and Gas Regulatory Body (BP Migas) said BP is expected, within the next few months, to sign an LNG agreement with U.S.-based energy firm Sempra Energy to supply 3.7 million tons a year of the fuel to the western coast of the U.S.

Signing the LNG deal with Sempra will mean that the Tangguh project has enough sales commitments to start construction.

Lukman Mahfoedz, Senior Vice President of BP Tangguh said the construction of Indonesia's third LNG plant has been rescheduled to 2008 from the initial date of 2007. The

nation already has two LNG plants, located in Arun, Aceh and Bontang, East Kalimantan, respectively.

He said BP planned to seek the fuel from Bontang LNG plant or from other plants to meet contracts which will become effective before Tangguh begins production.

"We are talking with several (LNG) suppliers." Lukman told reporters. He didn't give details on the plant.

The project is now seeking financing from a consortium of foreign banks to finance the construction.

Lukman said the project will cost \$5 billion, of which BP and partners will cover \$2 billion with the remaining \$3 billion expected to come from lenders.

Located in Berau-Bintuni region in Papua province, the Tangguh LNG plant is expected to produce 7 million tons per annum in the first phase of production. Gas fields, which will feed the plant, have certified reserves of 14.4 trillion cubic feet (TCF).

BP holds a 37.16 percent stake in the project in partnership with MI Berau BV (16.30 percent), CNOOC Ltd (16.96 percent), Nippon Oil Exploration Berau (12.23 percent), KG Companies (10.0 percent) and LNG Japan Corporation (7.35 percent).

Link to story:

www.thejakartapost.com/detailweekly.asp?fileid=20040901.@01

Clean Energy Equipment/Services Procurement Notices

PLN Signs Contract with Alstom Consortium

State electricity firm PT PLN has signed a contract with a consortium comprising Japanese, Indonesian and American firms for the provision of boilers for the Tarahan power project in South Sumatra.

Under the contract signed on June 26, the consortium, comprising Alstom Power Inc. USA, Marubeni Corp., Japan and PT Alstom Power Energy System Indonesia, will provide PLN with two circulating fluidized bed (CFB) boilers for both the Tarahan 3 and Tarahan 4 power plants.

Both boilers are valued at US\$118.264 million, according to Eko Sulianto, a Director of PT Alstom Power Energy System Indonesia.

Both PT Alstom Power Energy System and Alstom Power Inc., USA, are subsidiaries of French engineering giant Alstom. The former had a plant in Surabaya, which produces boilers, among other things.

A CFB boiler is an environmentally-friendly type of furnace that can use low-grade coal. This type of coal, which accounts for 60 percent of Indonesia's coal reserves, cannot be used in power plants equipped with standard boilers.

Eko told *The Jakarta Post* over the weekend that the signing of the contract had eased worries regarding the future of the project.

The construction of the Tarahan 3 and 4 power plants was initially scheduled to start before the end of last year and to be completed by the end of 2006. Each of the power plants has a capacity of 100 megawatts and both are valued at US\$350 million.

However, PLN was forced to delay the construction work because the Japan Bank for International Cooperation (JBIC), as the financier of the project, was unable to finish the evaluation of the tender results for the projects by the end of last year.

The project is seen as crucial in view of the current power crisis in the region. Installed power generation capacity in southern Sumatra currently stands at 580 MW, with the demand at about the same amount. A power grid should have power reserves amounting to 30 percent of capacity.

Eko said that as a result of the delay in the construction of the project, the power plants would come into operation later than the initial schedule, that is, in 2007 for Tarahan 4 and 2008 for Tarahan 3.

Link to story:

www.thejakartapost.com/yesterdaydetail.asp?fileid=20040809.L04

Partnering Opportunities

Amoseas Indonesia-PLN, Pertamina Joint Cooperation to Develop Third Geothermal PP Darajat III

Amoseas Indonesia, PT. PLN (Persero) and PT. Pertamina (Persero) will cooperate to develop a third geothermal power plant Darajat III in Garut, West Java, at the end of this year as part of its expansion in Indonesia.

Bernie McCloskey, Amoseas Indonesia's President said the company will invest up to US\$ 110 million to build the 110 MW Darajat III geothermal power plant. "We would like to see additional development in Darajat because it is a very strong field and, probably in the future, we will have more than 330 MW," McCloskey told reporters during a press conference on Monday.

Source: Jakarta Post or

www.pln.co.id/Dari_Media.asp?id=3089 and www.pln.co.id/dari_Media.asp?id=3091

Contacts can be established with Mr.Lolo Panggabean at lolo@ybul.or.id or Mr. Suroso at rosso@ybul.or.id.

Project and General News

Power Blackouts Affect Thousands

PALEMBANG, South Sulawesi: At least 51,415 houses in three districts in South Sulawesi experienced periodic power blackouts in August due to supply disruptions.

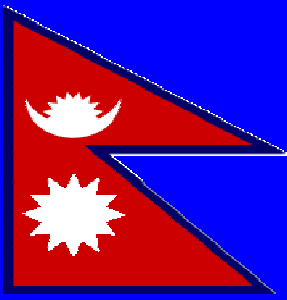
The blackouts began after an explosion at the Talang Ratu relay station, state-owned electricity company PLN said.

It was not clear when the power supply returned to normal in the affected areas.

The local office of the Indonesian Consumers Foundation said PLN should compensate those affected if the power cuts continue for three consecutive days. --JP

Calendar of Events

No information available this quarter



Nepal

Important Acronyms:

DGEEU	<i>Directorate General of Electricity and Energy Utilization</i>
PLN	<i>State Company Electricity Utilization</i>
PLTD	<i>Diesel Oil Power Plant</i>
PLTG	<i>Gas Power Plant</i>
BI	<i>Bank of Indonesia (The Central Bank)</i>
GDP	<i>Gross Domestic Product</i>
CPI	<i>Consumer Price Index</i>
IMF	<i>International Monetary Funds</i>
SBI	<i>BI promissory note</i>
ADB	<i>Asia Development Bank</i>
YBUL	<i>Yayasan Bina Usaha Lingkungan</i>
Trn	<i>Trillion</i>
Bn	<i>Billion</i>
PLTP	<i>Geothermal Power Plant</i>

Macro Political and Macro Economic Environment

Government Renews Call for Peace Talks; No Decision on Ceasefire, UN Mediation

The government in late September renewed its offer to the Maoists for dialogue to resolve the ongoing conflict. A meeting of the Council of Ministers (CoM) came up with the decision to again invite the rebels to talks.

Disclosing the CoM's decision, Communication Minister and government spokesperson Dr Mohammad Mohsin said, "The government is keen to restore durable peace in the country by giving a logical political outlet to the problem"

He reiterated that the government was ready to maintain maximum flexibility at the table. The government has also called on all political parties, the civil society and the media to cooperate in its peace bid. "We want to restore the sovereign powers to the people with the help of political parties and start meaningful talks."

The government's statement comes following a two-day meeting of the High-level Peace Committee (HLPC), which had forward edits decision to the CoM for final approval. Today's CoM meeting was supposed to formally respond to the six demands of Maoist leader Prachanda but did not come up with any categorical answer. Prachanda, in his statement had asked the government, *inter alia*, if it was able to reverse the Royal move of the 4th October 2003 and show evidences that it has control over the

military. He had said his party would consider sitting for talks if the government gave credible answers. Without mentioning the Maoist queries, however, Mohsin said, "All security agencies, constitutional, political and administrative bodies are under the government's control."

He maintained that it would be better to initiate open talks rather than relying on the media to exchange views. Today's CoM meeting failed to decide on the proposal of the CPN UML general secretary, who is a member of the HLPC, for a unilateral ceasefire. Likewise, the government remains indecisive about the Maoist demand for United Nations mediation in the peace talks. Mohsin said, "The government is ready to accept mediation from the UN as well as other international organizations if there is need."

For further details logon/contact: nepalnews.com,
Sep 30 '04

Central Bank Announces Monetary Policy for 2004-2005

The central bank of the country, Nepal Rastra Bank (NRB) announced the monetary policy for the fiscal year 2004-2005. The chief goal of this year's policy is to stabilize Nepal's economy. The central bank has projected inflation to be at 4 percent and put the foreign exchange growth at US \$ 7.3 million. The bank rate has been retained at 5.5 percent because of "fluidity in the economy", while the refinancing rate to the agricultural banks is now at 3.0 percent. The export sector refinancing is at 2 percent, the same as in the previous year. The NRB has reduced the cash reserve ratio for the commercial banks from 6 percent to 5 percent. In its policy, the bank has also allocated US \$

10.3 million for reviving ailing industries at a refinancing rate of 1.5 percent.

For further details logon/contact: nepalnews.com, July 20 '04

Clean Energy Financing

Understanding reached for Upper Karnali

The Kantipur Daily, quoting an Indian official in Sydney, recently said a memorandum of understanding for a 300 MW Upper Karnali hydropower project has been concluded. According to the Joint Secretary of the Indian Power Ministry, Anil Kumar Kutti, who participated in the world energy conference in Sydney, Nepal will invest 49 percent and India will invest 51 percent in Upper Karnali. Nepal will receive 15 percent of the power free of cost.

For further details logon/contact:

The Kantipur Vernacular Daily – September 9 '04

kanti@kantipur.com.np

<http://www.nepalnews.com>

Clean Energy Equipment/Services Procurement Notices

NEA Central Regional Office invites bids for the supply of ACSR conductor:

Date of first publication of notice: September 16, 2004

Last date for submission of bid document: November 16, 2004

Price of bid document: NRS 10,000 (US\$ 133 approximately)

Place for submission of bid document: NEA, Central Regional Office, Durbar marg, Kathmandu, Nepal.

Telephone: +(977-1) 4230336; 4225834

Fax: +(977-1) 4226693

For further details logon/contact:

The Gorkhapatra Vernacular Daily – September 18, 2004

gopa@mos.com.np

Partnering Opportunities

Japanese Investors to Study Upper Seti Project

A group of Japanese experts will soon arrive in Nepal for a feasibility study of the Upper Seti Hydropower Project, English Daily *Kathmandu Post* reported on September 27. This event may generate new hope for foreign investment in the country's hydropower sector. Japan International Cooperation Agency (JICA) has agreed to carry out a detailed project report study of the 122-megawatt project,

which has been a top priority for Nepal Electricity Authority ever since it put Kulekhani-3 on the backburner. According to NEA Managing Director Dr. Janak Lal Karmacharya, the Japanese team is arriving to carry out a study of the project. Doors will open for investment after the detailed study, Karmacharya said.

For further details logon/contact: The Kathmandu post-September 25 '04 kpost@kantipur.com.np

Project and General News

Mid-Marsyangdi Contractor Demands US \$ 72 Million from NEA

The contractor of MMHEP, citing delays in project completion due to security reasons, variation order and prolongation costs, has demanded an additional amount of US \$ 72 million from NEA, reports said. Not even 50 percent of the project's construction works have been completed, though the project completion deadline was over more than two years ago, Kantipur Daily said that the multinational contractor company, DDCJV, was awarded the construction contract of the German-funded hydroelectricity project for 74 million Euros. The 70MW MMHEP is the second largest hydropower project and the only developmental project under construction in the country.

nepalnews.com - Sep 19 04

Micro-hydro Yearbook Nepal- 2004 towards publication

The AEPC/ESAP and CADEC have started preparatory works on the Micro-hydro Yearbook of Nepal 2004. It is scheduled to be published by the end of October 2004. This is the sixth issue in the series; the first Yearbook was published in 1999 by CADEC. The yearbook contains information relating to the micro-hydro sector between mid-July 2003 to mid-July 2004. CADEC has also started preparatory works on the Renewable Energy Data of Nepal 2004 book. This book updates data and information on various renewable energy options and also presents an estimation of overall electrification data in Nepal.

For further details logon/contact:

cadec@ecomail.com.np

Publication of Appropriate Technology: CADEC has discontinued the publication of *Upayukta Prabidhi* (Appropriate Technology).

For further details logon/contact:

cadec@ecomail.com.np

Social Mobilization for Micro-hydro Schemes- A Reference Guideline: AEPC/ESAP has published this reference guideline with the aim of facilitating communities to improve the management of their micro-hydro schemes. This guideline draws heavily on the experience of a number of micro-hydro programs, key stakeholders and professionals from various organizations.

For further details logon/contact:
energy@aepc.wlink.com.np

Guidelines for Preliminary Feasibility Studies of Micro-Hydro Projects: This publication by AEPC/ESAP, provides a basis for consultants to undertake preliminary feasibility studies of micro-hydro projects supported by AEPC. It is expected that the use of these guidelines will result in a standard approach to carrying out and reporting on preliminary feasibility studies for new micro-hydro projects.

For further details logon/contact:
energy@aepc.wlink.com.np

Namuna Bolpatra Tatha Thekka Samjhauta (Model bid document and contract agreement): The model bid document and contract agreement (in Nepali medium)) has been published by AEPC/ESAP to facilitate local communities/entrepreneurs in establishing agreements with manufacturers/installers regarding supply and installation of new micro-hydro schemes.

For further details logon/contact:
energy@aepc.wlink.com.np

Democratizing Micro-Hydro: Structures, Systems and Agents in Adaptive Technology in the Hills of Nepal: The book based on the Ph.D. Thesis of Amreeta Regmi shows that hydro technology in Nepal illustrates significant characteristics of authoritarianism in design. It further reveals that society and humans shape "technological democracy.. The adaptive micro-hydro not only represents illumination and development but also identifies conflict, power, violence, control and democracy.

Contact: hyd2_orlongco@sancharnet.in for a copy.

Panighatta (Water Mill) Newsletter: CRT has started publishing a quarterly newsletter, called *Panighatta* (water mill) targeting rural people. Its objective is to inform, motivate and educate water mill owners on improving traditional water mills. The newsletter has been published under the AEPC-SNV supported IWMSP.

For further details logon/contact: iwm@crtnepal.org

Web page for Buyer's Guide on Micro-hydropower Systems: A web page containing a buyer's guide on micro-hydropower systems has been launched.

For further details logon/contact:
http://www.canren.gc.ca/prod_serv/index.asp?CaId=196&PgId=1299

District Level Micro-hydro Associations Formed in Two Districts

The micro-hydro owners of Sindhuli and Lalitpur districts have formed district Micro-hydro Entrepreneurs' Associations in the districts. NMEF is the umbrella organization of the district-level associations.

For further details logon/contact: CADEC at
Tel. +977-1-4472264
cadec@ecomail.com.np

Problems in Power Sector

Bikash Thapa in a September 13 write up in Kantipur Daily strongly points out how NEA has failed to utilize 800 million units of electricity this summer. The surplus, he says, could have been used by the two thirds of the population who do not have power. On the one hand there is a power surplus, on the other hand the farmers have not been able to irrigate their land due to a shortage of electricity, says Thapa. Because Kali Gandaki A power does not reach the east, the places there have to depend on a diesel plant and imports from India.

For further details logon/contact:
The Kantipur Vernacular Daily – September 13 '04
Bikash Thapa: t_bikash@hotmail.com
kanti@kantipur.com.np
<http://www.nepalnews.com>

Nepal Backs BIMSTECK

Prime Minister Sher Bahadur Deuba in his end of July speech on BIMSTECK expressed a firm belief in mutual regional cooperation for collective gains in the area. According to the Gorkhapatra Daily, Deuba told the Bangkok summit meeting "Nepal has specially stressed the development of countries around Bay of Bengal." Referring to the way all rivers originating in the Himalayas come together in the Bay of Bengal, he observed the joint development of the area around the sea could be in the interest of all in the region. The concept could be useful for preserving the Buddhist heritage in the region, he noted.

For further details logon/contact:
The Gorkhapatra Vernacular Daily – July 31 '04
gopa@mos.com.np

SAFMA Regional Conference

The SAFMA Conference in Dhaka, Bangladesh has prepared a 19-point directive for enhancing regional cooperation in the trade and energy sectors. The directive has been worked out in line with the spirit of the World Trade Organization (WTO). It includes provisions for implementing SAFTA. The document would facilitate the 13th SAARC conference. The directive especially stresses preparation for the interstate infrastructure for integration of regional economies.

For further details logon/contact:
The Kantipur Vernacular Daily – August 24 '04
kanti@kantipur.com.np
<http://www.nepalnews.com>

First Power Company to Issue Share for Public Subscription

Nepal Hydropower Company has issued 1.4 million shares worth US \$ 1.8 million for public subscription. The Company is the promoter of the Indrabati Hydropower project. NIDC Capital Market has been appointed issuer of the shares for the Company and Nepal Srilanka Merchant Bank is the co-issuer, said Kantipur Daily in a report quoting a press release. The Company has capital worth two billion rupees; its issued capital stands at US D 9.3 while its paid up capital amounts to US D 7.4 million.

For further details logon/contact:
The Kantipur Vernacular Daily – August 12 '04
kanti@kantipur.com.np
<http://www.nepalnews.com>

Inauguration of PDF Board Activities

Managing Director of Nepal Bangladesh Bank, Ganesh Prasad Adhikari, opened the activities of the Power Development Board recently. The Bank has been selected to operate the Board. Investors can now apply for capital, said a report published in the Spacetime Daily, which had been closed following the September 1 incident in which the machines and other equipments of the Daily were destroyed.

For further details logon/contact:
The Spacetime Vernacular Daily-August 6 '04
space@wlink.com.np
<http://www.spacetimeonline.com.ornet.or.org>

Communities Manage Electricity Better

Recent practices have shown that communities can better manage the distribution of electricity in rural areas than the state-owned Nepal Electricity Authority. Marsyangdi Multipurpose Sahakari Samshta in Mugling (one of the 11 community-based registered organizations) has been distributing electricity to a total of 554 households after it obtained its license five months ago. "It purchases bulk

energy from the Community Rural Electrification Department of NEA and provides quality service to its clients," a July 29 Kathmandu newspaper report said.. Cooperative secretary Shri Prasad Kandel told the paper that non-technical leakage has been reduced from 27 percent to 18 percent, and they have been able to collect US \$ 12,000 out of a total of US \$ 14,000 in dues from blacklisted consumers. The cooperative pays around US \$ 2920 per month to NEA at the rate of US \$ 0.04 per unit and sells it at US \$ 0.09, which is the official price set by the Tariff Fixation Commission.

For further details logon/contact:
The Kathmandu Post July 26 '04
kpost@kantipur.com.np

Purchased Electricity More Expensive than Produced power

The electricity of Bhotekoshi and Khimti, purchased by paying dollars as per an agreement concluded in 1996, is more expensive than the power produced in the country. The purchased power is US \$ 0.13 per unit while the NEA average rate is US \$ 0.09 per unit. The power produced by 36 MW Bhotekoshi and 60 MW Khimti was not used last summer, yet the price was paid for it. This has caused a loss worth US \$ 27.6 million for the NEA, which pays some 42 percent of its total income to private power producers. One NEA study shows that next year the unit cost of Bhotekoshi will increase by US \$ 0.02.

For further details logon/contact:
Bikash Thapa: t_bikash@hotmail.com

Agreement for Power Purchase

Nepal Electricity Authority and Gautam Buddha Hydropower Pvt. Ltd. concluded an agreement for purchasing power. Kantipur Daily in a report on August 14 said the NEA would purchase power from the 750 KW Sisne Khola Hydropower Project at a cost of US \$ 0.056 in winter and three rupees in summer. The price would be raised 6 percent per annum. In recent times NEA has agreed to procure 176 MW of power from the private sector. The project would commence commercial production from July of next year.

For further details logon/contact:
The Kantipur Vernacular Daily – August 13 '04
kanti@kantipur.com.np
<http://www.nepalnews.com>

Electricity Royalty in 16 Districts

Ten percent of the total amount of the royalty collected from the production of electricity in the western development region has been distributed to all 16 districts. Until last year, this percentage was given only to the district that produced power. This year the royalty was

given to all districts on the basis of impact. Palpa district gets US \$ 53,000, double the amount of last year.

For further details logon/contact:
The Kantipur Vernacular Daily – September 9 '04
kanti@kantipur.com.np
<http://www.nepalnews.com>

Biogas has Hgh Potential

Speakers at a program recently highlighted the importance of biogas, a major source of renewable energy in the country, which is providing a sustainable energy supply to the people of rural areas. According to the *Kathmandu Post* report, they also underscored the contribution of biogas to poverty alleviation and its potential advantage to earn foreign currency through carbon trading. Speaking at an annual general meeting of NBPG, Sundar Bajgain, President of the Biogas Support Program, said that biogas has been the major source providing energy to Nepalis, especially in rural areas. At present there are 133,000 biogas plants operating in the country, which provide energy equivalent to 300 megawatts, Bajgain said. Ramchandra Maharjan, Chairman of the ADB, which has been a major source of funding to rural farmers, pledged the Bank's support in the future.. He stated, however, that there is a need to make the biogas plants self-sustainable and independent of excessive subsidies from government bodies.

For further details logon/contact:
Kathmandu Post-September 13 '04
kpost@kantipur.com.np

Local Co-arbitrator Appointed

Nepal Electricity Authority (NEA) appointed Professor Bharat Bahadur Karki as its co-arbitrator for settling the payment dispute with Kali Gandaki A Hydropower Project's Italian civil contractor, Impregilo SpA. The September 25 *Kathmandu Post* reports "The contractor has challenged us in court. We have accepted the challenge by appointing our arbitrator, said Janak Lall Karmacharya, Managing Director of NEA. Professor Karki teaches law at Tribhuvan University and is believed to be an authority on Contract Law in Nepal. He will be representing NEA in a teleconferencing arbitration on the payment dispute filed by the Italian contractor at ICC's International Court of Arbitration. NEA will soon send its response to the civil contractor's claims to the Court's Secretariat in Paris. The move is in response to the case filed at the court by the civil contractor two months ago. The contractor has demanded US\$ 300 million from NEA in payment instead of letting the NEA withdraw a sum of US \$ 33 million from the contractor's deposit in Banca Intesa in Milan, Italy.

For further details logon/contact:

The Kathmandu Post-September 25 '04
kpost@kantipur.com.np

Nineteenth Anniversary of NEA

NEA earned altogether US \$ 165 million in the fiscal year (2003-04). The figure marks an increase of 7.46 percent as compared to the earning of the (2002-03). Executive Director Dr. Janak Lall Karmacharya, in a report issued on the 19th anniversary of NEA, informed that production expenses this year rose to US\$ 86.8 million, depicting an increase of 24.5 percent. The NEA has suffered a loss of US \$ 23.8 million prior to taxation during the year. The ED underlined the need to promote collective management for making the Authority more effective in providing services.

For further details logon/contact:
The Gorkhapatra Vernacular Daily – August 17 '04
gopa@mos.com.np

Development Component of Electricity

All municipalities of 75 districts and some 1600 village development committees have so far been blessed with electricity, says Shree Kanta Regmi in a write up in the July 28 *Gorakhapatra Daily*. Altogether 57 districts have been linked with the national electricity grid, he opines electricity is an important element of all development works. "It is the only reliable resource for our progress and development."

For further details logon/contact:
The Gorkhapatra Vernacular Daily – July 28 '04
gopa@mos.com.np

NEA Files Case against Kali Gandaki A Contractor

With the negotiation process of Nepal Electricity Authority (NEA) having failed, the Authority has decided to fight a case at the International Chamber of Commerce (ICC) Court of Arbitration against the contractor of the Kali Gandaki A project Impregilo SpA. This decision has been taken to avoid paying up US\$ 300 million to Impregilo. *Kathmandu Post* reported on September 19, Conceding that negotiation had failed Minister of State for Water Resources and President of the NEA Management Committee Thakur Prasad Sharma said the government would appoint an arbitrator to fight its case at ICC.

For further details logon/contact:
The Kathmandu Post-September 19 '04
kpost@kantipur.com.np

World Energy Conference and Nepal

The five-day World Energy Conference recently concluded in Sydney, Australia adopted several measures related to regional cooperation in the energy sector, opening all alternatives for small energy or big energy

project, grant and markets for energy. Altogether 2,500 representatives from various countries, including Nepal, participated in the Conference. Although the Conference decisions have no immediate impact on the Nepali energy sector, they will be instrumental in boosting the cause of energy in the country in the long run. They will motivate foreign investment in the Nepali energy sector, opines Bikash Thapa in a write up published in Kantipur. Keep all energy alternatives open, said world leaders addressing the Conference. The alternatives include petroleum, gas, coal, nuclear energy and hydropower. Quoting *The Economist of India*, the writer observes that had energy been supplied appropriately India would have increased economic growth by 2 percent. The cost of energy is going up while the source is decreasing, he notes. The conference, however, remained indifferent to the impact of nuclear energy on nonsocial aspects and the adverse effect of petroleum-related energy on the environment. Environmental issues were sidelined this time as environmentalists did not turn up to stress renewable energy.

For further details logon/contact:
Bikash Thapa: t_bikash@hotmail.com

Calendar of Events

Microfinancing Renewable Energy Technologies

Workshop. A workshop on “Microfinancing Renewable Energy Technologies” was organized on 7-9 July, 2004 at Dhulikhel Lodge Resort, Dhulikhel. The major objective of the workshop was to explore the prospects of financing renewable energy technologies through microfinance Institutions.

All together 30 participants (3 female and 27 male) from various microfinance institutions, government agencies and support organizations participated in the workshop. Mr. Dipal Chandra Barua, Managing Director of Grameen Shakti, Bangladesh, and Ms. Indrani Hettiarachchy, Deputy Director Banking, Sarbodaya Economic Enterprise Development Services (Guarantee) Limited (SEEDS), participated in the workshop and shared their experiences as guest speakers.

Publication. Winrock International’s Clean Energy Group published a book entitled “Financing Renewable Energy Technologies: A guide for Microfinance Institutions in Nepal” in July 2004.

Policy Amendments: Based on the recommendations from Winrock International Nepal, AEPC has amended some points in its procedures on providing credit to MFIs for

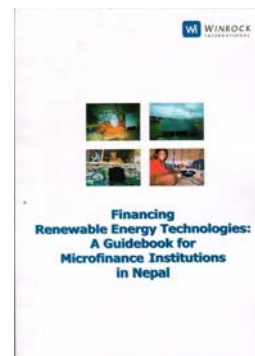
onlending to the farmers for the installation of biogas plants.

- AEPC has amended its procedure to allow the micro finance apex bodies to receive AEPC loans to provide wholesale loans to primary MFIs
- AEPC has amended its lending procedure to attract more MFIs to participate in the program.

The following are the modifications.

Policy recommendations: Recommendations to Nepal Rastra Bank (Central Bank of Nepal)

- In most cases RET itself does not directly lead to income-generating activities. Therefore it is important that it be linked with other income-generating activities to ensure repayment of the loans. The existing Nepal Rastra Bank regulations do not allow MFIs to lend more than NRs 30,000 per borrower. Some RETs require a loan of around 15,000 or above and hence the client will have limited scope of doing both the activities (i.e. income generation and RET installation at the same time with the loan)
- Therefore, Winrock International Nepal has recommended that the limit of NRs 30,000 for microfinancing regulated by Nepal Rastra Bank should be increased to NRs. 50,000. This would allow borrowers to have an income-generation loan and a RET loan concurrently.
- Rural Self-Reliance Fund (RSRF) [managed by Nepal Rastra Bank] provides wholesale loan to MFIs for income generating activities. However MFIs are not allowed to finance renewable energy technologies with this loan.



SN	Particular	Previous provision	Modification
1	Loan per plant	NRs. 12,500.00	NRs.15,000.00
2	Loan limit under guarantee from Board of Directors	NRs. 500,000.00	NRs. 600,000.00 (As first loan) NRs. 750,000.00 (As second loan) NRs. 900,000.00 (As third loan)
3	Initial Advance	20% of the sanctioned amount	25% of the sanctioned amount
4	Reimbursement	MFI should reimburse 50% of the advance amount within a period of 3 months and 100% within 6 months from the date of agreement.	MFI can get the reimbursement of the agreed amount within a period of 1 year from the date of agreement.

- Winrock International Nepal has recommended that MFIs should be allowed to finance RETs through the loan from RSRF.
- Financing RETs should be considered as deprived sector lending. This will provide a greater scope of mobilizing the high liquidity that remains with commercial banks in this sector.

Future activities: Under the support activities for Microfinance institutions, we are planning the following activities for the next quarter.

- Three sharing and planning workshops, together with microfinance institutions and biogas companies in three different regions.
- Two orientation trainings for MFIs interested in financing biogas.
- One study tour for MFIs financing biogas and other RETs.
- Publication of biogas manual

KEVA

Awareness programs in schools:As a part of the school awareness program KEVA, in collaboration with IUCN,has made presentations in 14 schools. In these presentations KEVA has distributed information materials (booklet, stickers, notebooks, flyers) to students and school libraries as a part of the awareness program .

KEVA is a copublisher: KEVA and Nepal Water Conservation Foundation (NWCF) were copublishers of the book titled "Rope Ways in Nepal". The book was released on August 15 during program that also included an exhibition by various organizations that are involved in clean energy. The chief guest of the program was Honorable Raghuj Pant, Minister for Labor and Transportation Management. The program was also attended by Hon. Dr. Shankar Sharma, Vice-Chairman of National Planning Commission.

KEVA is a copublisher of this because KEVA activities focus on eliminating constraints to the expansion of electric-based transportation technology. Ropeway can

prove to be a feasible environmentally clean transport alternative in Nepal's hilly terrain.

Future Activity: KEVA Planning Workshop. :KEVA will organize its third planning workshop on October 7, 2004. The workshop will develop the third year work plan for KEVA. International Alliance partners and local partners and stakeholders, and government officials will attend the workshop. Another KEVA publication entitled "*Are Electric Vehicles Viable in Kathmandu? A Cost-Benefit Perspective*" will also be launched at the workshop.

Indoor Air Pollution Status Report: As an initial step in contributing to this sector in Nepal, Winrock International has prepared a status report for Nepal on household energy, indoor air pollution and health impacts with USAID support. Similarly, ITDG has also started monitoring indoor air pollution levels in Nepal by introducing smokehoods and other measures related to indoor air pollution with support from DFID. A "Forum for Indoor Air Pollution and Health-Nepal" has also been established in Nepal with different stakeholders as members, and ITDG has been functioning as a secretariat to the forum. Winrock has conducted a workshop to disseminate this status report, to create awareness among different stakeholders, and to seize the opportunity to identify gaps and interventions needed to address this serious problem in the country. This workshop was organized jointly with the "Forum for Indoor Air Pollution and Health" and ITDG Nepal in close cooperation with the Department of Health Services.



Philippines

Important Acronyms:

NPC *National Power Corporation*
CME *Coconut Methyl Ester*

Macro Political and Macro Economic Environment

President Gloria Macapagal Arroyo Addresses Congress and Nation

President Gloria Macapagal Arroyo formally presented the five reform packages of executive and legislative proposals that she intends to pursue for the next six years when she delivered her fourth State-of-the-Nation Address during the joint session of Congress at the Batasang Pambansa House of Representatives Building. Date of Article: July 26, 2004

<http://www.mb.com.ph/issues/2004/07/26/MAIN2004072614874.html>

Business Sector Bullish after Election Polls

Early sign of post-election optimism have returned to the Philippine business sector, indicated by a Makati Business Club survey of top management executives taken from June 25 to July 16, 2004. The survey said "economic prospects are at their most bullish since 2000 in the eyes of the country's business executives." Date of Article: July 22, 2004

<http://www.mb.com.ph/issues/2004/07/22/BSNS2004072214583.html>

Ecozone Export Grows 19% in 1st Half of Year

Exports from enterprises registered with the Philippine Zone Authority are up 19.4 percent in the first semester this year to US\$15.334 billion from US\$12.839 billion during the same period last year, indicating a sustained turnaround in the country's investments. Date of Article: July 27, 2004

<http://www.mb.com.ph/issues/2004/07/27/BSNS2004072714970.html>

New Investments up 590% in Half Year

Combined investments generated by the Board of Investment and the Philippine Economic Zone Authority in the first semester this year jumped 590% to P140.97 billion compared to the P20.42 billion registered in the same period last year. Trade & Industry Secretary Cesar V. Purisima is optimistic that the growth will continue through the second half of the year as the government improves the country's investment climate and lures more local and foreign investments. Date of Article: August 9, 2004

<http://www.mb.com.ph/issues/2004/08/09/BSNS2004080915948.html>

Subic Bay Exports Rise 19% in 7 Months

Subic Bay Freeport posted a strong performance in export contributions with a significant increase of 19 percent during the first seven months of the year, when compared to last year. Export performance of Subic Bay-made products remain strong for the past seven months and officials are confident that manufacturing firms can maintain this upsurge through the rest of the year. Date of Article: August 12, 2004

<http://www.mb.com.ph/issues/2004/08/12/BSNS2004081216124.html>

Senate Bill Supports Use of Ethanol as Substitute for Gasoline

The Senate minority leader, Mr. Aquilino Pimentel, proposes in his Senate Bill 1677 the establishment of a National Fuel Ethanol Program similar to the National Alcohol Program of the past. Sen. Pimentel said developing ethanol from sugarcane, corn and cassava, and using it as fuel would reduce the country's dependence on imported oil by as much as 60 %. Date of Article: August 12, 2004

http://www.manilatimes.net/national/2004/aug/12/yehey/top_stories/20040812top6.html

Business Confidence hits 22-month High

Business confidence made a comeback in late July to early August, as Pres. **Arroyo** started to unveil her economic plans for her new term, giving businessmen a glimpse of where the economy could be headed over the next six years. With uncertainties of the national elections finally over, businessmen became more upbeat on current business conditions, as well as for the economic outlook in the next few months. Date of Article: August 16, 2004

<http://www.bworld.com.ph/current/TopStories/headline.html>

President Arroyo Endorses Five Energy Bills

Pres. Arroyo endorsed five proposed energy independence and savings bills to lessen the country's dependence on imported crude oil to the 13th Congress for immediate passage into law. The five bills were: the proposed franchise bill for the Transmission Company (Transco); the Natural Gas Bill which will lay the groundwork for using cleaner fuel such as natural gas; the Renewable Energy Bill that seeks to tap wind, biomass, solar and ocean waves as energy sources; the Alternative Transport Fuel Bill which promotes the use of alternative fuel particularly ethanol, a fuel derivative from sugarcane and cassava; and an Enforcement Bill which aims to protect household consumers from the illegal practices of traders of imported liquefied petroleum gas (LPG). Date of Article: August 25, 2004

<http://www.philstar.com/philstar/NEWS200408250411.htm>

Government Raises Growth Target

Given the economy's growth in the first half of the year, it is now projected to grow at around 6.1% for the whole year, a rate even higher than the government's previous forecast of 4.9%-5.8%. Secretary Romulo Neri said that strong growth in the first and second quarters would likely continue for the rest of the year even if the government's finances do not improve dramatically.. Date of Article: Sept. 9, 2004

<http://www.bworld.com.ph/current/TopStories/headline.html>

Hot Money" Up as of End of August '04

The country's net portfolio investments inched up 2.7 percent to \$347 million in the first 8 months from \$337 million last year, the Banko Sentral ng Pilipinas said. Net portfolio investments in August rose 70 percent to \$60.5 million from \$18.3 million a year ago on the back of strong corporate earnings in the second quarter. Portfolio

investments, or "hot money," refers to funds invested in stocks, bonds, or money-market instruments on a short-term basis. Date of Article: September 13, 2004

<http://www.manilatimes.net/national/2004/sept/13/yehey/business/20040913bus3.html>

Clean Energy Financing

Proposal for Bagasse-fuelled Power Plant Project

The Philippines will start work next year on its first sugar-fuelled power plant in Talisay City, Negros. The 30-megawatt plant, which will use bagasse from a mill in Talisay City, will be built by a unit of Britain's Bronzeoak Ltd and state-owned Philippine National Oil Company. Date of Article: Sept. 9, 2004

<http://www.bworld.com.ph/current/TheEconomy/ecostory4.html>

PNOC Secures Php20.5M Japan Funding for Hydropower Projects

State-owned Philippine National Oil Co. (PNOC) recently acquired Php20.5M funding from the Japan External Trade Organization (Jetro) for the conduct of a feasibility study on the proposed 19-megawatt Sicopong hydropower project in Sta. Catalina, Negros Oriental. The project is part of the key strategies unveiled by Pres. Arroyo to develop renewable energy sources to achieve energy independence. Date of Article: September 14, 2004.

<http://www.bworld.com.ph/current/CorporateWorld/corpsory4.html>

Clean Energy Equipment/Services Procurement Notices

Six Firms Bid for PNOC-EDC Wind Power Project

At least six Japanese firms have been pre-qualified to bid for the turnkey contract for the 40-megawatt pilot wind power project of Philippine National Oil Company-Energy Development Corporation (PNOC-EDC) in Burgos, Ilocos Norte. The turnkey contract involves the construction of a 42-kilometer transmission line connecting the facility to Transco's substation in Laoag; the construction of a switchyard at Burgos, and the interconnection works at the Laoag substation to accommodate the power facility's output. Date of Article: July 26, 2004

<http://www.mb.com.ph/issues/2004/07/26/MAIN2004072614874.html>

Contracting for qualified candidates for the CBRED (Philippines: Capacity Building to Remove Barriers to Renewable Energy Development) project funded by the Global Environment Facility (GEF) and the United Nations Development Program (UNDP)

The CBRED project funded by GEF and UNDP is in search of qualified candidates for the following posts:

- a. MSC Coordinator
- b. MSC Policy, Institutional Development and Financing Specialist
- c. MSC Information and Promotion Specialist
- d. MSC Technical Support Specialist
- e. MSC Administrative Assistant

The qualified candidates will be based at the DOE Office in Makati City and the duration of employment will be one year, with extension based on performance.

Date of Article: August 29, 2004, Philippine Daily Inquirer

Contracting of a Manufacturer/Supplier to Supply and Installation of the 20kWp Photovoltaic (PV) - 20 kW Diesel Generator (DG) Hybrid Power system, including instrumentation controls and necessary protection.

The Development Support Services Center (DSSC) of the United Nations Development Programme (UNDP) is inviting local and international manufacturers and/or suppliers to apply for eligibility to bid for the supply and installation of the 20kWp PV-20 kW diesel generator hybrid power system, including instrumentation controls and necessary protection in Barangay New Ibahay, El Nido, Palawan. This procurement falls under the "Renewable Energy-Based Village Power System project (Project ID 00033498)".

Date of Article: September 8, 2004, Philippine Daily Inquirer

Partnering Opportunities

Marubeni Eyes New Energy Projects

The Japanese firm Marubeni Corporation is pursuing new projects in the Philippine power sector, particularly in geothermal, natural gas and other renewable energies. Marubeni is interested in the generation sector of electric power, in the selling of NPC assets, and also particularly in gas, geothermal generation, geothermal wells and other renewable energies in the Philippine market. Date of Article: July 5, 2004.

<http://www.mb.com.ph/issues/2004/07/05/BSNS2004070513430.html>

PhP1.75M Solar Plant to be Built in Tawi-Tawi

A PhP1.75 million pilot project for a village-level solar powered seaweed processing plant in Tawi-Tawi is expected to be put up late this year, according to a regional official of the Bureau of Fisheries and Aquatic Resources. The processing plant, to be jointly funded by BFAR and the Alliance for Mindanao Off-Grid Renewable Energy (AMORE), is capable of processing up to two metric tons of raw seaweed daily. Date of Article: August 6, 2004

<http://www.bworld.com.ph/current/CorporateWorld/corpsy6.html>

Windpower Project awaits Negros Forest Council's Approval

The proposed wind power projecting San Carlos City, Negros Occidental, which will produce 30 megawatt of power, is a joint venture of the San Carlos Wind Power Corporation and Smith Bell Wind Technologies Inc of Denmark. Negros Occidental governor Joseph Maranon said the project needs the approval of the Northern Forest Reserve Management Council since seven of the 20 wind poles will be installed within the forest reserve. Date of Article: September 22, 2004

<http://www.bworld.com.ph/current/TheEconomy/ecostory10.html>

Project and General News

DOE Issues Guidelines in Promotion of Investment Management Contracts to Help ECs

Poor-performing electric cooperatives will get much needed help from the private sector as the Dept. of Energy (DOE) recently issued guidelines in effecting greater private sector participation in the management and operation of rural electric cooperatives. Department Circular No. 2004-06-007 promotes the investment management contract (IMC) as one of the measures to help ECs improve their efficiency of service, to reduce system losses, and eventually to lower their cost to consumers. Date of Article: July 12, 2004

<http://www.doe.gov.ph>

Four Bus Companies Commit to Begin Operation of CNG Buses

Four bus companies have committed to commence operation this year of compressed natural gas (CNG)

buses, as announced by the Dept. of Energy. The Memorandum of Agreement between the government and bus operators confirms the commitment of the parties in the implementation of the Government's Natural Gas Vehicle Program for Public Transport Pilot Project. The DOE hopes this will encourage the use of natural gas as an alternative fuel for public transport, which will address pollution problems as well as enhance the role of natural gas in the country's energy mix. Date of Article: July 25, 2004

<http://www.doe.gov.ph>

Joint Government Spanish Project Energizes 16 Barangays in Southern Philippines

The Dept. of Agrarian Reform (DAR) has brought electricity to 16 barangays in Mindanao under the P3.3 billion unity scheme of the Solar Power Technology Support Project (SPOT), which is partly funded by the Spanish government. Date of Article: Sept. 9, 2004

<http://www.mb.com.ph/MAIN2004090918066.html>

Calendar of Events

No events to report this quarter



South Africa

Important Acronyms:

- ANC: African National Congress
- DAEC: Durban Alternative Energies Company
- DME: Department of Minerals and Energy's
- NER: National Electricity Regulator
- SHS: Solar Home systems
- NEPA: New Partnership for Africa Development
- KZN: KwaZulu/Natal

Macro Political and Macro Economic Environment

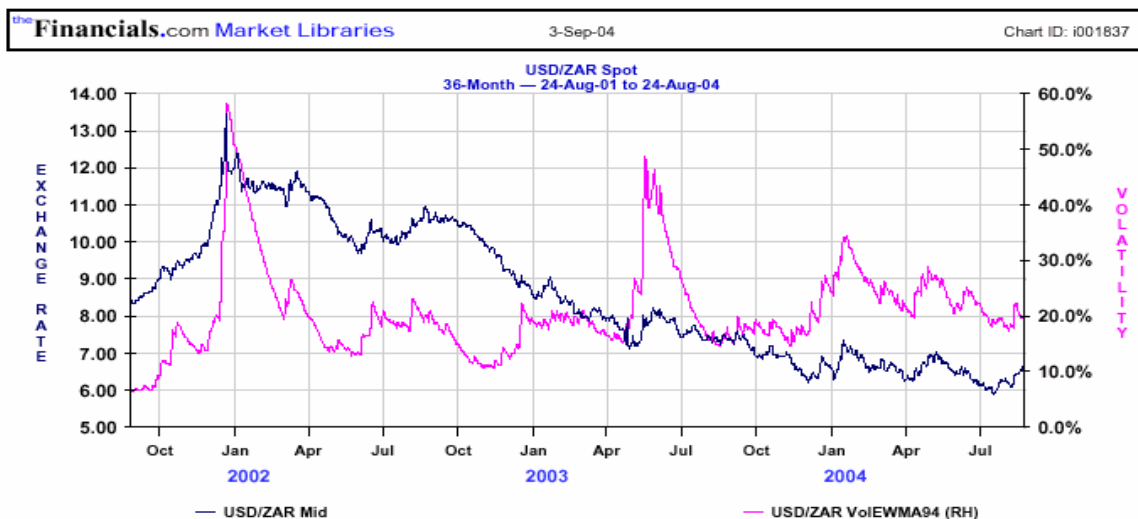
After massive celebrations marking 10 years of democracy following the first democratic elections in 1994, South Africa is now scrutinizing whether it has much cause for rejoicing. The two main hurdles to be overcome are unemployment and crime. Unemployment still stands at over 40%, having fallen from 42% in September 2003 to 41.2% in March 2004. Official crime statistics released "annually" show no real reduction in crime, with many querying the validity of these figures—why should the statistics only be available on an annual basis if matters are improving? Road accident rates in S. Africa are among the highest in the world and cost S. Africa over \$2 billion annually (R13 billion). The new Firearms Control Act is in chaos and threatens to remove arms from legal owners, but make no dent in the number of illegal arms. The hunting fraternity, an industry which generates over R1 billion annually and many jobs, has added its concerns to the

chaos.

On the positive side, the creation of 300 000 jobs does appear to have stemmed the rise in unemployment. Another positive, after 6 months of acrimonious wage negotiations, including a massive national strike, the government and public sector unions have finally sealed a wage deal that binds unions for the next 3 years. The police union Popcru, eventually also signed the deal, despite a 100% mandate from members not to sign. Policing is rated as one of the most dangerous jobs in the world.

Economic Situation

The S. African Rand has strengthened by 23.5% against the US\$ since January, bringing down the price of imported goods. Opening of our economy to foreign competition, relatively high productivity, reduced budget deficit, tight monetary policy, and the appreciation of the Rand have combined to reduce inflation to a record low. The consumer inflation index declined to 3.7% in



September, from 4.2 in July 2004. Year-on-year food inflation slowed to 1.6% from 2% in July. These are all positive signs for the short-term future.

Clean Energy Financing

Nothing to report this quarter

Clean Energy Equipment/ Services Procurement Notices

- The invitation to bid for the tender for a Technical Service Provider for the KfW funded SHS project was published and bidding companies are currently under review. Installations are set to commence in January. <http://www.dme.gov.za>
 - NuRa (Nuon RAPS Utility) has launched a request for quotations for 3 600 Solar PV Modules (50 to 55Wp) for supplying to a SHS project in Northern Kwa-Zulu Natal. doug@raps.co.za
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Partnering Opportunities

Public purpose investment company E+Co recently hosted a workshop aimed at encouraging black economic empowerment (BEE) participation in the internationally expanding renewable energy and energy efficiency sectors. Similar workshops will take place throughout South Africa in the coming months in order to make budding entrepreneurs aware of the assistance that E+Co can give when attempting to develop an innovative renewable energy or energy efficiency idea into a business. www.energyhouse.com

Project and General News

Government Activity and Reports

- Information about the status of the Electricity Pricing Policy within the DME is available from David Mahuma, Director of Electricity Pricing and Analysis. david.mahuma@dme.gov.za

- The Draft Energy Efficiency Strategy is available on the Department of Minerals & Energy website. www.dme.gov.za/energy.html or contact tony@mepta.pwv.gov.za
- The Energy Bill has been sent to the Cabinet. Once approved, the bill will be released for public comment. The contact person is Dr Tony Surridge. Surridge@mepta.pwv.gov.za
- The Department of Mineral and Energy has been conducting public meetings on the draft Radioactive Waste Management Policy and Strategy in Pretoria, Cape Town and at Vaalputs near Springbok in the Northern Cape. tseliso@mepta.pwv.gov.za
- The date set for the PBMR (Pebble Bead Modular Reactor) case to be heard has been set for 29th November in the Cape high court. www.dme.gov.za
- Kevin Nassiep the Chief Director of Energy at the Department of Minerals and Energy recently addressed journalists at a breakfast briefing hosted by the Heinrich Boell Foundation. He reported the following:
 - o Later this year the government plans to set up the National Energy Research Institute to support studies into the commercialization of sustainable energy technologies and efficiency.
 - o Government is looking into creating an incentive scheme for project developers in the different fields of sustainable energy to encourage wider participation.
 - o A large number of RE projects are currently being proposed for South Africa, including biogas projects at several landfill sites, wind farms, a 100MW concentrated solar power plant using receiver technology, and a mini hydro plant in the Free State.
 - o

Cremer Media's Engineering News, 9 July 2004 General News

- Worldwide blackouts put electricity grid reliability on the agenda. As electricity shows its limitations, the world needs to look to alternatives such as solar thermal energy. It is estimated that in South Africa close to 2 GW or 17.7 million MWh per annum are used for heating water. info@suntank.com

- Homes for the aged in Pretoria are leading the way in adopting clean, solar thermal energy as their choice for meeting their hot water demands. NewEnergies has now been successful in signing up three different retirement homes.
info@newenergies.co.za or
www.newenergies.co.za
- The eThekweni (Durban) Municipality has signed South Africa's first carbon emission reduction purchase agreement with the World Bank for a rubbish-to-power project. ~~29 - 31 March 2005~~
www.earthlife.org.za/seccp/
- Eight members of the Environmental Affairs and Tourism Portfolio Committee met with community and NGO representatives. The meeting was aimed specifically at getting comments on the Air Quality Management Bill.
www.earthlife.org.za/seccp/
- A REEEP (Renewable Energy and Energy Efficiency Partnership) seminar was held in August. While the seminar was well attended, participants were all from South Africa, despite it being a regional seminar.
www.reeep.org
- The Energy Research Centre—a postgraduate department within the Faculty of Engineering and the Built Environment at the University of Cape Town—invites all interested parties to browse through their new website. Interesting topics are discussed and notes on events and projects are posted.
www.erc.ac.za
- Three South African Solar Energy project sites are discussed on the Sparknet website. These projects are Folovodwe, Kwabaza and Maphephethe. This makes for interesting reading.
<http://www.sparknet.info/got/php/country.htm>
- FNESSE is a series of thematic newsletters to be published over a period of time. The first in the series is now available online and features Wind Energy in Africa.
www.afdb.org

Calendar of Events

Upcoming Events

7 – 10 November 2004 International Lighting Congress

Venue: Caesars Gauteng Hotel Casino and Convention Resort

e-mail: vector@ee.co.za

13th International Conference on the “Domestic Use of Energy”.

Venue: Cape Technikon, Cape Town

le-mail: due@ctech.ac.za

Recent Events

27 September E-mail Conference on energy-poverty scenarios

7 October in Southern and Eastern Africa.

<http://db.sparknet.info/goto.php/SparknetE-Conferences>

17 – 20 October 2004 IAIAsa Annual Conference

Theme: Southern African Environments – Growth or Bust

Venue: Champagne Sports Resort, Central Drakensberg

www.iaia.co.za

25 October 2004 outh African Energy Efficiency Awards

Venue: Stemulate Florist, Sandton, Johannesburg

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