

# APEC

## Advanced Biohydrogen and Green Growth Newsletter

### **APEC Meetings and Events**

#### **§ APEC Workshop on Promoting the Development of Wind Energy §**

November 25-26, 2013

Hanoi, VIETNAM

Viet Nam would like to invite you to attend **APEC Workshop on Promoting the Development of Wind Energy**, which will take place on **25 - 26 November, 2013 in Hanoi, Viet Nam**.

The APEC Workshop on Promoting the Development of Wind Energy aims to provide the opportunities for renewable energy experts, especially those in wind energy from APEC member economies, wind energy producers and investors (business sector) to share advantages, disadvantages, obstacles and recommendations on how to remove the obstacles and facilitate the development of wind energy.

The workshop also aims to explore potential cooperation opportunities among APEC member economies in developing wind energy and create a platform for APEC member economies to discuss, exchange on experiences, current strategies, policies, regulations and technologies on wind energy facilitation and development. It will focus on capacity building for governments' officials especially from developing economies who are directly or indirectly involved in the process of policy making and/or implementation of wind energy projects.

### **Research News**

#### **§ Green energy initiation and investments in APEC countries- Chilean**

##### **Ventures §**

##### **Two Biogas Plants to Convert Residues of 80,000 Pigs**

CHILE – Two biogas plants will decrease pollution from 80,000 commercially farmed pigs in the Pichidegua region, whilst providing electricity for 2,500 families.

The Ministry of Agriculture has announced, the projects - at Saint Irene and Las Palmas - will reduce odour and flies, The residues of the two sites have been estimated at 700 cubic metres every day. The proposal is to convert the waste into biogas to power a one megawatt electricity generator, designed by Australia. Agribusiness company, Maxagro, has sponsored the scheme as part of ambitious targets to for supplying between 800Kwh and 1mWh of energy from farm residues. Maxagro intends to feed the electricity into the Central Interconnected System.

*The food security, climate change, energy security, interlinked challenges, and green growth for the APEC region.*

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Chile's Environment Minister praised the plants, describing them as a 'good reflection' of energy production as they are creating power from waste.

Pig production is an important part of the country's economy, as he also added. "Chile is facing the challenge of increasing energy supplies to meet expected growth targets and become a developed country," said by Agricultural Minister, Alvaro Cruzat in the meeting.

### **Chilean Government Evaluates Solar Powered Water Pumps**

CHILE – Field trials combining sun and water are demonstrating the potential for sustainable energy production in agriculture.

Three solar powered water pump demonstrations have been evaluated and highlighting the impact they could have on farms in the Teno, Maule and Yerba Buena

regions. Government ministers sought producer feedback after a year of the first project being completed in October 2012. Intentions were to regulate water flow, irrigation and drainage with the pumps, whilst also lifting the sustainable credentials of Chilean agriculture. Upon completion last year, the three units were the first in the country, although the government has made national plans for similar projects.

"This type of initiative has been part of the policy of President Sebastián Piñera". "He plans to incorporate clean energy in food production, not only as a cheaper energy source but also as a means of differentiating quality foods produced in Chile." "So our idea is that we are increasingly seeing the presence of renewable energy systems to achieve the differentiator that markets are demanding today.

**Adapted from:** <http://www.thebioenergysite.com/news/13549/two-biogas-plants-to-convert-residues-of-80000-pigs>,  
<http://www.thebioenergysite.com/news/13547/chilean-government-evaluates-solar-powered-water-pumps>

## **§Green energy initiation and investments in APEC countries- Chinese Ventures §**

### **Chinese Biofuels Plant Receives RSB Certification**

**CHINA - The Beijing Shougang Lanza Tech New Energy Science and Technology joint venture has earned the Roundtable of Sustainable Biomaterial's sustainability certification for a facility which converts waste steel mill gases to sustainable biofuels.**

RSB claims the facility is the first RSB-certified biofuel plant in China and also the first of its kind anywhere to receive certification for industrial carbon capture and utilisation. "The joint venture uses a process that creates a sustainable biofuel and does so by efficiently reusing greenhouse gases that would have otherwise been released into the atmosphere," says Peter Ryus, CEO of RSB Services. and he also added that "This solution does not impact the food chain or land use."

It has been estimated ethanol from the above process may reduce life cycle greenhouse gas emissions by 60 per cent compared to petroleum fuels. "We trust this certification will help accelerate the acceptance of biofuels made through carbon capture technologies and serve to showcase the possibilities opened up by thinking of carbon emissions as an opportunity, not just a problem," added by Jennifer Holmgren, CEO of LanzaTech.

### **China Soybean Production Forecast Down**

CHINA - MY13/14 soybean production is forecast at 11.8 million tons, down slightly from the previously forecast of 12 million tons, due to lower soybean area and yield in the north eastern provinces. MY13/14 rapeseed and peanut

production is forecast at 13.2 million tons and 16 million tons, unchanged from the August data. Driven by a supply gap between recovering animal husbandry feed demands and estimated falling soybean stocks, soybean imports are forecast to exceed 67.5 million tons in

MY13/14, up from the estimated 60 million tons in MY12/13.

**Adapted from:** <http://www.thebioenergysite.com/news/13541/chinese-biofuels-plant-receives-rsb-certification>,  
<http://www.thebioenergysite.com/news/13510/china-soybean-production-forecast-down>

### § Green Energy Initiation and Investments in APEC Countries- Chinese Prospective § CHINA - Hong Kong-based ASB Biodiesel is to start generating biodiesel at its processing plant in November

"Located at the Tseung Kwan industrial estate and expected to start in November, 2013 ASB is expecting to produce around 100,000 tonnes of biodiesel a year, as it has been reported", in biofuels international.

"The plant, to reach that figure of B100 blends, is expecting to use 200,750 tonnes of grease trap waste as  
Delegates of

feedstock. The bulk of initial quantities produced are expected to be shipped to Europe, but ASB CEO Anthony Dixon believes "there is no reason why, in a few years, what we'll produce will not be consumed domestically. ASB is backed to the tune of \$165 million (€122 million) by the Al Salam Bank based in Bahrain".

**Adapted from:** <http://www.thebioenergysite.com/news/13365/asb-to-begin-biodiesel-production-in-china>

### *China Pumps RMB2.58 Billion into Industrialization*

**CHINA - The central government has set aside a 2.58 billion yuan (417.31 million US dollars) subsidy to boost the amount of loans for the agricultural industrialization, the Ministry of Finance said on Thursday.**

The money is designed to cut lending interest rates for agricultural industrialization projects so as to boost farm produce supply and farmers' income.

Thirty provinces, autonomous regions and provincial-level municipalities will benefit from the money, together with Dalian, Ningbo and Qingdao cities.

Also, 100 million Yuan will be provided for food safety risk surveillance in 20 provinces, regions and municipalities, including Shanxi, Inner Mongolia, Chongqing and Sichuan, the ministry said.

**Adapted from:** <http://www.thebioenergysite.com/news/12964/china-pumps-rmb258-billion-into-industrialisation>

## § Green energy initiation and investments in APEC countries- Australian and Thailand contributions §

### Biodiesel Operation to Expand in Australia

**AUSTRALIA** - A grant has been awarded by the Western Australian government to help expand a renewable fuels programme. The Ashburton Aboriginal Corporation (AAC) will put the A\$25,000 (€17,600) into its AshOil programme, which uses used cooking oil to produce about 15,000 litres of biodiesel each week. It is believed AAC currently supplies mining company Rio Tinto with 50,000 litres of the fuel a month.

### Cassava for Ethanol Encouraged in Thailand

**THAILAND** - In Thailand, the ministries of Commerce and Energy are reportedly set to cooperate

to develop a strategy to promote the production of ethanol from cassava.

Energy minister Pongsak Raktapongpaisarn is believed to have been tasked with overseeing the country's production of cassava as an energy and food crop, with one objective being to prevent a price drop. Raktapongpaisarn has recently been encouraging cassava farmers to get involved with the government's contract farming programme. In addition to this, the minister has also been asked to lead policy in regards to bio-plastics and Thailand's first bio-plastic pant.

Adapted from: <http://www.thebioenergysite.com/news/13532/biodiesel-operation-to-expand-in-australia>,  
<http://www.thebioenergysite.com/news/13468/cassava-for-ethanol-encouraged-in-thailand>

## Special Column § Upcoming Events in 2 months §

Date	Event Name	City	Taichung
November 20	Dr. Eniya visit Green Energy Development Center	Taichung	CHINESE TAIPEI
November 22-25	ABBS-2013 and ABHL Meeting	Osaka	JAPAN
November 25-26	APEC Short-term Training Course	Taichung	CHINESE TAIPEI
November 27- December 5	2 Vietnam students visit Green Energy Development Center and technical exchanged	Taichung	CHINESE TAIPEI