

ASIA PALM OIL

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TECH & PRODUCT NEWS

SPECIAL INTERVIEW WITH MR KP NG, THE FLYING CONSULTANT PALM OILMILL UNIQUE DESIGNER page 64



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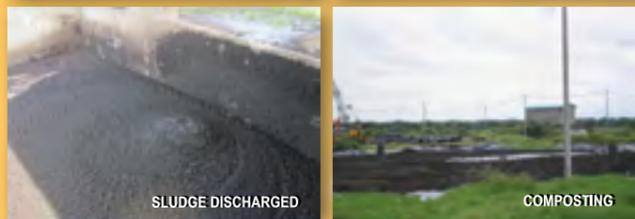
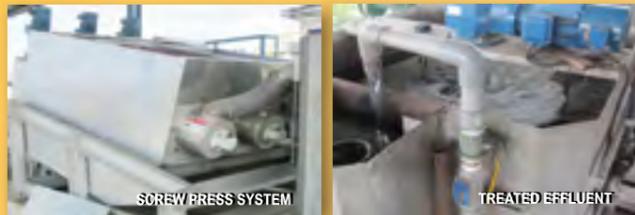


DESLUDGING & DEWATERING SYSTEM



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Power Consumption (hp)	8
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Influent Treatment Capacity	15-30m ³ /hr
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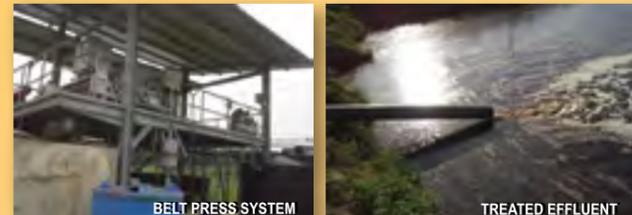


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Power Consumption (hp)	5



Functions :-

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2. Improve the biological treatment, longer the retention time for existing ponding system in wastewater treatment.
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After Pressing



Capacity:4-5 MT of EFB/hour

KH-777-SP3
Heavy Duty EFB Super Press

After Pressing



Capacity:7-8MT of EFB/hour

KH-77
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EDITOR'S MESSAGE



I can't believe that *Asia Palm Oil Magazine* come into being more than three years ago. How time flies! FBI is happy to once again bring *Asia Palm Oil Magazine* to you with the objective to bridge the gap between the palm oil industries from upstream to downstream to consumers.

All issues of *Asia Palm Oil Magazine* contain rich content to ensure availability of the relevant and objective palm oil industry details for your selection. Moreover our main objective is to play a vital role in the era of palm oil technology. We are happy to perform our part of the duties and warmly welcome your kind feedbacks to improve our part of services.

Our writers, contributors and managers are dedicated individuals. They work round the clock to facilitate your needs keeping in view the ecosystem of the palm oil industry.

In This Issue

Catch us talking in depth about palm oil with Dato' Dr Choo Yuen May (Director General of MPOB), Mr Jacky Chen (Managing Director of Nantong Ant Machinery) and Mr K.P. Ng (eDesignPalm Consultancy Malaysia).

Feedback

We love hearing from you. Follow us on *Facebook* and *LinkedIn*. You can also email us directly with your thoughts and critique. Thank you.

Chief Editor

Charlyne Lee

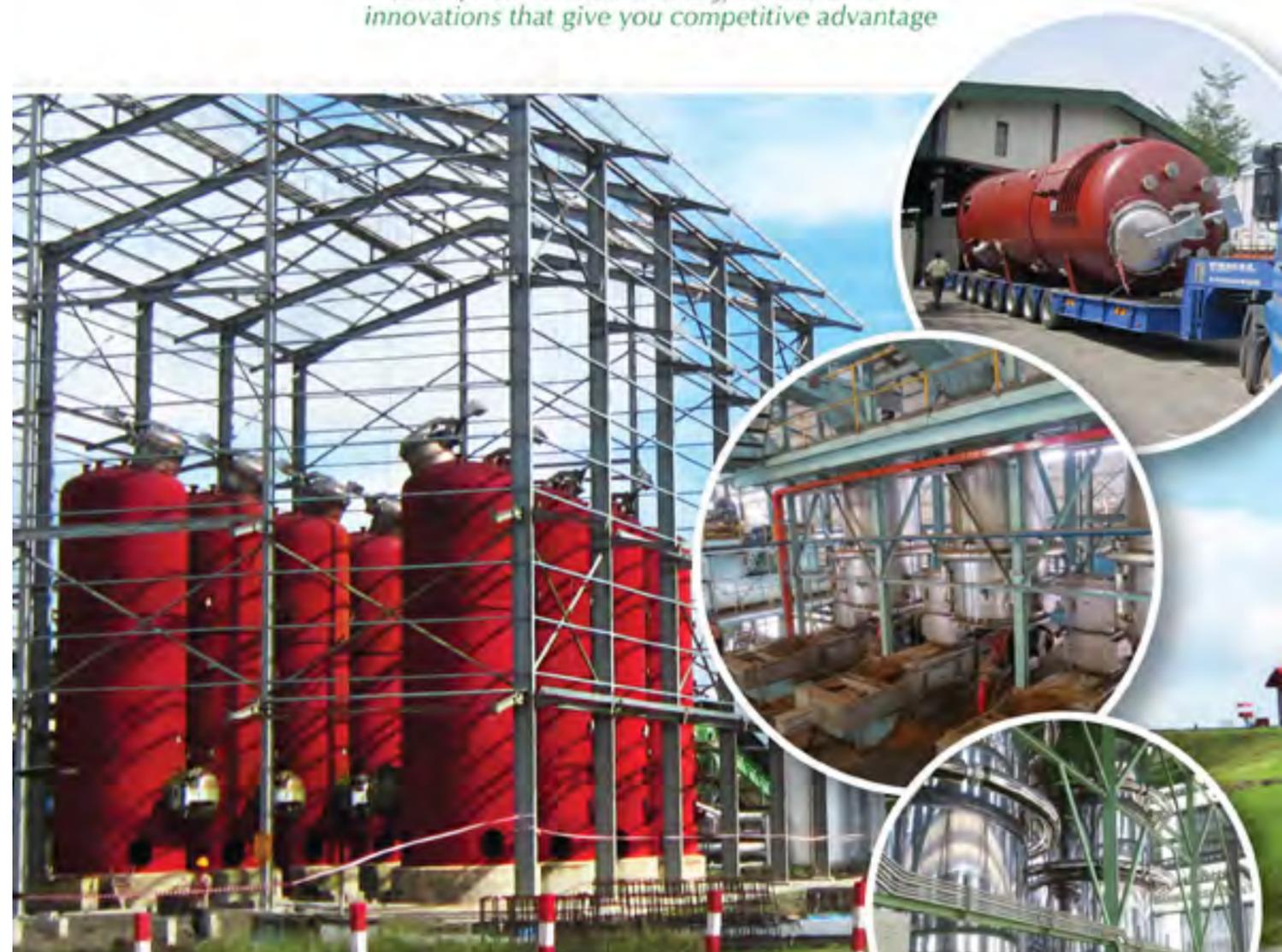
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MPOB, PARTNERS IDENTIFY GENETIC SECRETS TO IMPROVE PALM OIL YIELD

The Malaysian Palm Oil Board (MPOB) and its research partners from the United States have identified genetic secrets to improve oil yield via the use of oil palm clones.

“Through the research on the oil palm genome, we have identified a transposable element named ‘Karma’, which is responsible for the low-yielding mantled fruit.

“The discovery has led to the development of a simple, leaf based test that can identify ‘Bad Karma’ and predict mantling before palms are planted in the field,” MPOB said in a statement today.

It said the new test would enable the cultivation of high performing clonal oil palms by identifying only those with the ‘Good Karma’ epigenetic trait, further optimising the use of environmentally sensitive land resources.

MPOB said that oil palm clones had the potential to produce 20 to 30 per cent more oil on the same planted area as trees grown from seedlings.

However, that potential could not be reached until now as a significant proportion of the fruits of cloned palms suffered from a phenomenon called



‘mantling’.

“Although the cloned trees are genetically identical to their high performing parents, mantled fruits are abnormal and in turn will reduce oil yields.

“Because mantling occurs at random, the risk of unproductive ‘mantled’ fruits make oil palm planters reluctant to plant clonal palms, despite the benefit of higher yields from the productive ‘normal’ plants,” it said.

Currently, oil palm plantations produce 45 per cent of the edible oil

produced worldwide, but utilising only five per cent of the land dedicated to producing vegetable oil.

The crop is also the most efficient producer of oil, yielding ten times more edible oil per unit of land than soybean.

Advancements that enable increased yields on existing planted areas can help increase the sustainability of oil palm cultivation by reducing pressure on valuable tropical forests.

Source: Bernama

ASIA PALM OIL MAGAZINE TESTIMONIAL

“Comprehensive, Concise, Coherence and a total value for money if you are tools or equipment supplier looking for a good avenue to introduce your product. The team at Asia palm oil magazine have done a wonderful job at providing a great level of insight about the palm oil industry worldwide.”

Mr. Vincent Ng, Business Development of
Jasa Aman Engineering Sdn Bhd

“The Asia Palm Oil Magazine is very informative and it is relevant to the industry that we are in. It has an established platform for us to advertise in as the magazine distribution network covers our key markets. At the same time, it also provides us with a lot of market information and helps us keep a finger on the pulse of the palm oil industry and the activities across the supply chain of our sector. In short, a good read !”

Mr. Anthony Chang,
Senior Sales Engineer of JJ-Lurgi Engineering



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FGV IN FINAL STAGE OF ACQUIRING STAKE IN EAGLE HIGH PLANTATIONS



Felda Global Ventures Holdings Bhd (FGV) is in the final stage of discussions to acquire a 37 per cent stake in Indonesian plantations company, PT Eagle High Plantations (EHP), from Rajawali Group, said FGV chairman Tan Sri Mohd Isa Abdul Samad.

He said the plan to acquire the stake was expected to enhance group profit in the long term as well as strengthen FGV's position in the oil palm plantation sector in that country.

"Besides that, it will also broaden the company's oil palm plantations, in an effort to expand its business and improve the group's earnings," he said

to reporters after presenting the fourth Curriculum Excellence Award 2015 at Sekolah Menengah Kebangsaan Trolak here, today.

He said FGV would convene its extraordinary general meeting (EGM) soon and the company's shareholders would determine whether or not the company should proceed with the acquisition.

"We have held discussions on this since four or five months ago. This is the most appropriate time even though the country is faced with economic uncertainty," he said.

Mohd Isa said FGV had also sent

several representatives from its top management as well as FelDA settlers to Indonesia to visit the oil palm and sugar cane plantations owned by EHP aimed at assessing the acquisition.

On June 12 this year, FGV signed a heads of agreement with Rajawali Group to acquire a 37 per cent stake in EHP for US\$680 million in cash and stocks.

EHP owns 425,000 hectares of oil palm plantations, out of which 67 per cent are in Kalimantan and the rest in Papua New Guinea (9.0 per cent), Sulawesi (19 per cent) and Sumatra (5.0 per cent).

Source: Bernama



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SARAWAK A MAJOR INVESTMENT DESTINATION



Sarawak welcomes and encourages entrepreneurs and investors from ASEAN countries and China to work together and explore various opportunities in Sarawak, especially in the Sarawak Corridor of Renewable Energy (SCORE), as well as China's rapidly growing economy with focus on the Belt and Road Initiative.

In saying this, state secretary Tan Sri Datuk Amar Morshidi Ghani emphasised the need for all ASEAN member states plus China to capitalize on the economic transformation that was fast happening around the world.

"With current political stability and harmonious environment coupled with

business friendly government and efficient administration, Sarawak is becoming a major foreign investment destination," he said at the inaugural ASEAN-China Entrepreneurs (ACE) Conference held at Imperial Hotel here yesterday.

It was jointly organized by Sarawak Entrepreneurs Association (SEA), Unimas University Community Transformational Centre (UCTC) and Fame International College.

More than 270 delegates, both local and foreign, attended the conference that served as a platform to strengthen ties, expand networking, discover new business and trade opportunities, to share latest information and

experiences as well as to seal potential deals.

Quoting Malaysia Investment Development Authority, Morshidi said Sarawak recorded the second highest direct investment in the country at RM9.64 billion, with 18 projects approved last year.

"Out of the investment, RM8.40 billion was from overseas while the remaining was domestic," he added.

On SCORE, he said it is one of Sarawak's flagship programs to develop the state as an economic hub in the region.

"SCORE has ten priority sectors;

namely aluminium, glass, steel, oil-based, palm oil, fishing and aquaculture, livestock, timber-based, marine and tourism," he elaborated.

Morshidi assured that all government agencies were strategized to create programs to support SCORE.

"In our efforts to produce more qualified manpower to realize the industrialization of Sarawak, there are 119 tertiary and technical and vocational institutions set up in Sarawak," he said.

"In addition, the 11th Malaysia Plan for Sarawak announced by the Chief Minister (Datuk Patinggi Tan Sri Adenan Satem) will be the main

development agenda for Sarawak in the next five years," he added.

The development plan, Morshidi reassured, was formulated based on thorough studies, consultations and analysis with the main aim of bringing development to the people.

"With the robust economic growth, Sarawak achieved a steady annual growth of four to five per cent. The construction sector is expected to be more vibrant in coming years while SCORE will continue to become the core economic pillar," he said.

"Moreover, Sarawak, being the biggest state in Malaysia with a 2.7 million population, is a resource rich state with a long coastline, huge coal reserves of some 40 million tonnes, hydro energy potential and vast land area," he added.

On the relationship between China and Malaysia, he acknowledged that it had been strong.

"It is always an honor to forge more engagement with our counterparts in China and strengthen this already healthy bond between us," he said.

Morshidi thus hopes the conference delegates can discuss and collaborate with local entrepreneurs and forge a win-win situation to start new business endeavors in Sarawak and expand businesses to their countries.

Meanwhile, ACE Conference advisor Senator Datuk Dr Sim Kui Hian urged entrepreneurs of all ages especially Sarawakians to be proactive in exploring and expanding trade and business opportunities so as not to be left behind by the global economic growth.

"The establishment of ASEAN will hit a major milestone with the formation of the ASEAN Economic Community by end of this year," he said, highlighting the growth opportunities for entrepreneurs worldwide in a region populated by 650 million people.

Dr Sim pointed out that the people-to-people initiatives, in addition to the government-to-government support, were keys to create a solid foundation to realise common interests and goals.

"We need to take this on a balanced approach with a good mix of young and old entrepreneurs working together to grow the economy. We need the youth for the energy and the senior ones the wisdom," he said.

The People's Republic of China consul-general in Kuching Liu Quan, conference organising chairman David Chew and Unimas vice chancellor Prof Dato Dr Mohammad Kadim Suaidi were among those present.

Source: Borneo Post

AFFIN HWANG RESEARCH CEASES COVERAGE ON SARAWAK PLANTATIONS ON **POOR LIQUIDITY**



Research firm Affin Hwang Capital Sdn Bhd (AffinHwang Research) is ceasing coverage on Sarawak Plantations Bhs (Sarawak Plantations) on poor stock liquidity. With core net profit for the first half of 2015 at RM6.2 million and crude palm oil's (CPO) average selling prices (ASP) trading lower.

"Sarawak Plantations' full year 2015E performance is unlikely to match our expectation. There are avenues for growth, including raising its comparatively low fresh fruit bunch (FFB) yield," it said in a note yesterday.

"We are however ceasing coverage as stock liquidity continues to be disappointingly low. Unless there are transactions which will highlight the low implied valuation for its land bank and planted area, we do not see investor interest improving anytime soon."

This comes after Sarawak Plantation announced its first half of 2015 core net profit declining 80 per cent year on year to RM6.2 million, below expectations of 6M15 core net profit – excluding a RM5.8 million gain on disposal of land and one-off items – declined by 79.9 per cent y-o-y to RM6.2 million, mainly due to lower selling prices and sales volumes of CPO and palm kernel.

"With CPO prices now lower than the 6M15 average of RM2,183 per metric tonne, it is unlikely for its 2015E core net profit to match our forecast of RM40.3m."

Based on a revised CPO ASP forecast of RM2,150 per metric tonne for 2015E and RM2,400 per metric tonne for 2016E-17E, AffinHwang Research said the implied 2015E-17E core net profit

forecasts would be cut by 63.1, 5.9 and 5.3 per cent respectively.

"New areas are being planted and replanting has intensified," it added. "We are raising its low FFB yield will further enhance FFB production growth, even though progress in the past have been slow, at times stymied by weather conditions and management changes.

"We are however ceasing coverage on Sarawak Plantations as stock liquidity continues to be disappointingly low.

"Unless there are transactions which will highlight the low implied valuation for its land bank 41,403 ha and planted area of 33,306 ha, we do not see investor interest improving anytime soon."

Source: Borneo Post

MALAYSIA-INDONESIA TO **EXPLORE NEW MEASURES** TO FURTHER IMPROVE COOPERATION IN PALM OIL INDUSTRY



Malaysia and Indonesia have discussed and agreed to explore new measures to further improve cooperation in the oil palm industry in light of the current global economic environment.

In a joint statement issued after a bilateral meeting here today on the development of the industry, both countries said they would also work towards improving the perception about palm oil, including its nutritional and sustainable production.

According to the statement, among issues discussed at the meeting was collaboration in assisting smallholders in the face of global challenges.

Indonesia's Coordinating Minister

for Maritime and Resources Rizal Ramli, and Malaysia's Minister of International Trade and Industry Datuk Seri Mustapa Mohamed, led a delegation from the two countries for the meeting.

Rizal was joined by the Minister for National Development Planning, Sofyan Djalil.

Other Malaysian Ministers who attended the meeting were Minister of Plantation Industries and Commodities Datuk Douglas Uggah and Minister of Rural Development Datuk Seri Ismail Sabri Yaakob, and Deputy Minister in the Prime Minister's Department, Datuk Razali Ibrahim.

"We are committed to exploring joint efforts aimed at ensuring remunerative

income for the smallholders of both countries," the statement said, adding, this effort was in line with the ASEAN spirit of cooperation and inclusive growth.

The two countries are also fully supportive of initiatives to promote cross-border investments in the development of the oil palm industry.

This includes the recently announced proposal by Felda Global Ventures Holdings Bhd and PT Eagle High Plantation to explore opportunities in the downstream sector.

Both Malaysia and Indonesia intend to realise this vision as soon as possible, the statement said.

Source: Bernama

MALAYSIA TO UNDERTAKE R&D TO COME OUT WITH NEW PALM-BASED PRODUCTS



Malaysia will continue to undertake research and development (R&D) to come out with new palm-based products, including nutraceutical and pharmaceutical, for the global community.

Minister of Plantation Industries and Commodities, Datuk Amar Douglas Uggah Embas, said the Malaysian Palm Oil Board's (MPOB) offices in the US, Europe, Africa, Pakistan and China would assist the industry by continually working with authorities and industry players to increase the uptake of palm oil for food and non-food sectors.

In his opening speech at the 35th Palm Oil Familiarisation Programme here Monday, Uggah said palm oil offered a competitive advantage over other competing oils for applications in the food and non-food sectors.

The text of his speech was read by MPOB Chairman Datuk Wan Mohammad Khair-il Anuar Wan Ahmad.

"We have carried out extensive research with international centres of excellence in our response to the anti-palm oil campaigns, particularly on the nutritional aspect.

"These studies have proven that palm oil is indeed a nutritionally superior oil," he said.

Uggah said the success of the palm oil industry has also attracted detractors who alleged that the oil palm development contributed towards deforestation and displacement of wildlife.

He said the oil palm development in Malaysia was guided by rules and regulations and grown on land legally designated for agricultural use.

This was in keeping with the country's commitment made at the Earth Summit in Rio de Janeiro, Brazil to preserve at least half of its land area under forest cover, he said.

"In addition, the industry is encouraged to adopt sustainable practices, including certification of sustainable palm oil through the industry-led initiative under the framework of Roundtable on Sustainable Palm Oil (RSPO).

"Currently, 1.29 million hectares of oil palm plantations in Malaysia are RSPO-certified and these contribute to 4.8 million tonnes of certified sustainable palm oil," he said.

Source: Bernama



Plantation Industries and Commodities Minister Datuk Amar Douglas Uggah Embas will be leading a Palm Oil and Timber Promotion Mission to China on Sept 10-16.

The delegation comprises representatives from his ministry, the Malaysian Palm Oil Board (MPOB), Malaysian Palm Oil Council (MPOC), Malaysian Timber Council (MTC) and the private sector.

The ministry in a statement today said the mission will discuss with private sector representatives to further strengthen exports of palm oil and timber products to China.

During the visit in Chongqing, Uggah will officiate the Palm Oil Health and Nutrition Forum.

The forum, jointly organized by MPOB, MPOC, Chongqing Chinese Nutrition Society and Lanzhou University Nutrition and Health Research Centre, is aimed at promoting palm oil exports and enhancing market

acceptance of palm oil in China.

In Shanghai, Uggah will visit and have discussions with Malaysian companies participating at Furniture China 2015, one of the largest furniture exhibitions in the republic.

Nineteen companies from Malaysia are taking part under the Malaysian Timber Council Pavilion.

Uggah will also hold discussions with major palm oil importers from China as well as visit the Teck Guan Oleochemical Plant, a Malaysian-based company in Shanghai.

The minister is also scheduled to attend a bilateral meeting with Minister of General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China (AQSIQ) in Beijing, aimed at enhancing bilateral cooperation on the facilitation of palm oil exports from Malaysia to China.

"The highlight of the meeting will be the signing of a Memorandum of



» Plantation Industries and Commodities Minister Datuk Amar Douglas Uggah Embas

Understanding between MPIC and AQSIQ on Quality and Safety of Malaysian Palm Oil Exports to China," said the ministry.

China is a major export destination for palm oil and timber products. In 2014, China accounted for 16 per cent of total global exports of palm oil products valued at RM10.3 billion.

Malaysia's exports of timber and timber products to China in 2014 were valued at RM771.4 million.

Source: Bernama



ONE OF INDONESIA'S RICHEST MEN IS BULLISH ON COMMODITY PROCESSING

As the head of one of Indonesia's largest investment companies, Peter Sondakh knows to follow market trends. It's the reason he took up smoking cigars last year, he says, beneath the whirl of air purifiers in his office.

It's also, he says, partly why he's selling off stakes in his palm oil plantation – Indonesia's third largest – in the hope of moving toward processing, refining and trading at a time when slumping commodity prices and weakened demand for raw materials from China have dented the economy.

"I pride myself in adding value," said Mr. Sondakh, whose PT Rajawali Corp. is one of Indonesia's biggest conglomerates with investments in mining, property, plantations and media. "Added value products will have more profit."

It's a view he seems to share with the Indonesian government, which has been pushing to process more raw commodities before export.

Indonesia has long relied on exports of raw coal, crude palm oil and other unrefined minerals to generate economic growth. But in the past few years, policy moves aimed at shifting the country away from its dependence on commodities – including a ban on mineral ore exports – have not gone over well with investors.

The need seems all the more urgent now that consumer spending, which makes up more than half of the country's GDP, is dropping off. Mr. Sondakh says he's concerned by the slump in consumption. Rajawali plans to divest shares in one of the country's largest taxi operators, PT Express Transindo Utama, and focus on its core business sectors – mining, plantations and property.



Workers load palm oil fruit into containers on their way into processing plants at a palm oil factory in Malingping, Banten province, in this August 9, 2010 file photo.

Plantation, to Felda Global Ventures Holdings Bhd, a global agri-commodities company based in Malaysia. Rajawali will retain shares of 31% as well as control over operations at Eagle High.

"A country is never healthy when it's driven by consumers only," he said. "This country needs to be driven by exports."

Mr. Sondakh talks ambitiously about producing biofuels, oleochemicals, margarine. "The money is made downstream," he notes, estimating added profits of up to 25%.

Industry giants, such as Sinar Mas and Wilmar, are already doing so. A newer player on Indonesia's plantation scene, however, Mr. Sondakh said, "we need partners to get us there quickly."

Earlier this month, Rajawali agreed to sell a 37% stake in its palm oil arm, Eagle High

In a corporate note issued on June 15, CIMB Bank said FGV "may have a case, albeit a long-term one, as deals involving a sizeable landbank with attractive maturity profile are hard to come by." It also said Rajawali appeared to have the better deal in the transaction.

Since Mr. Sondakh founded Rajawali in the 1980s, he's earned a reputation for turning around ailing companies. He has also become one of Indonesia's richest men; Forbes estimated his net worth this year at \$2.3 billion.

In the early 1990s Mr. Sondakh bought a bankrupt cigarette company, PT Bentoel Investama, and later sold his majority stake to British American Tobacco for \$494 million. He bought cement producer Semen Gresik (now Semen Indonesia) for just \$336.7 million, eventually selling it to the government in an equity transaction that raised \$1.08 billion.

Source: The Wall Street Journal

FGV, which is government-linked, invests in research and development and could provide Rajawali with cheap palm oil seeds, fertilizer and experience in downstream development, said Mr. Sondakh. It would also give his company potential access to the 13 markets where FGV operates.

He said commodity prices did not factor into the decision to sell Rajawali's stake in Eagle High.

The deal has drawn attention from investment analysts, who point out that the proposed purchase price of \$17,400 per planted hectare values the company's shares at close to 75% over Eagle High's recent closing price.

ANOTHER 300,000 HECTARES EYED FOR OIL PALM



The Philippine Palm Oil Development Council Inc. (PPDCI) is eyeing another 300,000 hectares to expand oil palm plantation in a bid to make the country self-sufficient to palm oil products.

The council targets to achieve, under its palm oil industry roadmap, the expansion in eight years from 2015 to 2023.

PPDCI, in partnership with the Philippine Coconut Authority (PCA) and Department of Trade and Industry (DTI), crafted the roadmap in 2013.

"It is good news that after the successful 9th National Palm Oil Congress last August 19-20 in General Santos City, there are now concrete policy directions by the government. Palm oil will be treated equally with other agri products," Peter Lavina, a member of the council's technical working group, said at the sidelines of

Club 888 media forum.

These policy directions, he said, include additional budget allocation of some P50 million this year, several folds of the previous year's budget at only P1 million. The budget will be utilized as an assistance to farmers, for fertilizers, seedlings and research and development.

At present, the Philippines has a total area of 75,000 has. planted with palm oil, around 69,000 are in Mindanao, the rest are in Palawan and Bohol.

The expansion will need some 38.4 to 42 million oil palm seedlings, with an average of 128 to 140 trees per hectare.

"This will be beneficial for our country because at present we are importing a total of 350,000 to 400,000 metric tons (MT) amounting to P35 billion annually. If we have more supply of palm oil, we will not be

needing to import anymore such big amount," he said.

The country is importing palm oil from neighboring Asean countries, like Malaysia, Indonesia, Singapore, among others.

According to Lavina, the challenges such as lack of quality planting materials would hinder the development of the industry.

"I think, government-to-government transactions for the importation of seedling would be better because it is cheaper, quality is assured, faster process, as well as it will eliminate red tape instead of the private sector importing palm oil from other countries," he said.

The industry estimated that around 1 million hectare idle lands are in Mindanao which can be potentially planted with oil palm.

Source: Sun.Star

MALAYSIA AND COLOMBIA AGREE TO ENHANCE BILATERAL TIES



Dato' Sri Anifah Aman, Minister of Foreign Affairs of Malaysia

Malaysia and Colombia have agreed to enhance bilateral relations and expand cooperation in various fields including trade and investment, agriculture, education and tourism.

Wisma Putra in a statement Thursday said the agreement was reached following a three-day visit by Foreign Minister Datuk Seri Anifah Aman to Bogota, Colombia, beginning on Monday.

Anifah also made a courtesy call on his counterpart Maria Angela Holguin Cuellar on Tuesday during the visit.

"Both ministers agreed on the need for greater involvement of the private sector to explore business opportunities in both countries. Furthermore, Anifah informed that the Malaysian government was reviewing the visa requirements for Colombian citizens to facilitate tourism and business activities conducted by Colombian-based companies in Malaysia," the statement said.

Describing Colombia as an important trading partner in Latin

America, Anifah also agreed with Holguin on the need for exploring new areas of cooperation that were more beneficial to both countries, especially as Colombia was an integral member of the Pacific Alliance trade bloc.

"Both ministers agreed on the need for greater involvement of the private sector to explore business opportunities in both countries. In addition, the two ministers took the opportunity to discuss a range of international and regional issues of interest to both countries," the statement said.

They also concurred that more exchange of visits at the highest level could be established between Malaysia and Colombia.

Colombia currently offered Spanish language courses for Malaysian officers, while Malaysia offered courses in the Malaysian Technical Cooperation Programme as well as

training at the Institute of Diplomacy and Foreign Relations for Colombian officers and diplomats.

During their meeting, Anifah also expressed the country's appreciation to Colombia for supporting Malaysia as a non-permanent member of the United Nations Security Council (UNSC) for the 2015-2016 period.

Anifah had also informed Holguin about the latest developments of Malaysia's role as chairman of ASEAN, particularly on matters concerning the ASEAN Foreign Ministers' Meeting and Post Ministerial Conference held in Kuala Lumpur from Aug 4-6.

During the meeting, Holguin asserted Colombia's stand that Malaysia was an important partner in Southeast Asia, not to mention the country's role as ASEAN chairman this year.

Holguin also expressed her country's intention to forge closer working ties with Malaysia, especially in the oil palm industry.

Source: Bernama

GHANA NEEDS TO DOUBLE PALM OIL OUTPUT IN NEXT 10-15YRS

The President of the Oil Palm Development Association of Ghana (OPDAG), Mr. Samuel Awonnea Avaala says the country needs to double its palm oil output in the next 10-15 years to become self-sufficient and save foreign exchange that could otherwise go into palm oil importation.

"We need as a country to double our output in the next 10-15 years so we can become self-sufficient in palm oil and save foreign exchange which could otherwise go into palm oil importation."

Speaking at the Association's first stakeholder meeting in Accra, which brought together major players in the industry, Mr. Avaala explained that one of the major constraints to production of the crop is challenges relating to land acquisition; despite the favourable natural resources, Ghana is a net importer of palm oil: "We buy more palm oil with our scarce resources than we produce."

"To ensure promotion of growth and development for the oil palm industry in Ghana, OPDAG will undertake strong consultations and advocacy work to ensure land acquisition becomes attractive to investors and growers who would like to expand their areas under production."

He observed that in recent times there are a lot of cheap, sub-standard vegetable oils imported into the country, which gives unfair competition and disadvantage to the local industry.

The imported oils, he said, have significant negative impacts on the refining sector and a ripple-effect on the value chain, including farmers and all direct/indirect dependants in the palm oil sector. Such trade practices cause the loss of substantial revenue to government.



With appropriate duty, the palm oil sector will be able to attract investors to invest in the plantations which normally come with associated smallholder and outgrower schemes: this in the long run will increase local production of crude palm oil (CPO) and reduce importation of the commodity, thus reducing the import bill.

The country has about 10 key plantation companies, with their businesses creating employment in the oil palm sector for more than 240,000 people and also reducing the rural urban drift.

In addition to the above plantation companies, there are large numbers of smallholders and out-growers presenting enormous opportunities for employment and wealth-creation in the rural communities.

The out-growers in particular account for about 80% of the country's total palm oil and palm kernel oil production; but sadly they are the least productive in crop production/yields, and technically deficient in product quality and extraction rates.

Source: GhanaWeb

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Closing Date:

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OLEOCHEMICALS MARKET GROWING AT NEARLY 6% CAGR TO BE WORTH \$25B BY 2019

ReportsnReports.com adds Global Oleochemicals Market 2015-2019 research report that forecasts a 5.95% CAGR by value for oleochemicals to 2019 and segments the industry based on geography, application, feedstock and type.

Commenting on this 2015 oleochemicals market report, the publisher says, "The end-user industries are varied when it comes to the use of oleochemicals for the production of various products. There has been a gradual shift in the end-user industries

using oleochemicals and there is a likelihood of various new end-user segments switching to oleochemicals to offer products with new functionalities in terms of raw materials and the processes employed to manufacture them. The advancements in technology as well as chemistry will provide opportunities for alternative products/processes, leading to a number of new products being developed in the forecast period. This will create intense rivalry in the whole value chain of oleochemicals market as vendors will offer varied product portfolios."

According to this oleochemicals market research, the usage of oleochemicals to produce fatty acid provides a viable option for using bio-

based products for the personal care industry, giving a push to the global oleochemicals market. The increase in the output of the feedstock industries will result in an increase in the output of oleochemicals manufactured globally, which in turn will give rise to personal care and allied industries. Further, the report states that the major challenge is the lack of a continuous supply of feedstock for the production of oleochemicals products.

Oleochemicals market companies discussed in this 2015-2019 research report include Cargill, Emery Oleochemicals, Evyap, Godrej Industries, Myriant, P&G Chemicals and PTT Global Chemical. Other prominent vendors simply mentioned in the research are Amyris, Codexis, Gevo and Wilmar International.

In this report, analysts cover the present scenario and

growth prospects of the global oleochemicals market from 2015 to 2019. To calculate the market size, revenue generated through sales of oleochemicals products for various commercial and industrial applications have been considered. The report also throws light on the various segments of the oleochemicals market. The market is classified into different segments based on geography, application, feedstock, and type. The report, Global Oleochemicals Market 2015-2019, has been prepared based on an in-depth market analysis with inputs from industry experts. The report covers the market landscape and its growth prospects in the coming years. It also includes a discussion of the key vendors operating in this market.

On the same topic, another research titled Oleochemicals Market by Type (Fatty Acid, Fatty Alcohol, Glycerin, and Others), by Application (Pharmaceutical & personal care, Food & beverages, Soaps & detergents, Polymers, and Others), by Region (North America, Europe, Asia-Pacific, and Rest of the World) - Trends and Forecasts to 2019 forecasts this market to register a CAGR of 4.20% between 2014 and 2019 to reach \$25,917.57 million by 2019. Asia-Pacific held the largest share in 2013 with China being the leading country. In the more saturated markets of North America and Europe, low growth is expected while the developing regions of Asia-Pacific are predicted to show high growth. APAC is projected to remain the major market by 2019, growing at a CAGR of 5.10% between 2014 and 2019. Growth in the North American region is expected to be low because of the saturation in current market and no new applications being developed for the product. Fatty acids held the major share in the oleochemicals market by type in 2013 and the trend is projected to continue by 2019. Fatty alcohols held the second biggest market by type for the oleochemicals in 2013. The market for glycerin is projected to grow at a high rate of 5.31% between 2014 and 2019 owing to the constantly increasing application areas for the product.

Partnerships & Agreements was the most preferred strategy among the major players in the oleochemicals market, globally. Asia-Pacific was the more preferred region for expansions from 2010 to 2014. More than half of the developments took place in North America for the given period. The major players are also enhancing their technological base, product portfolio, and geographical reach by acquiring other companies.

Expansion was the second most preferred strategy among the key players in the oleochemicals market, globally. The key players are enhancing their product portfolio and regional reach by expanding production operations into various developing regions.

Companies profiled in this oleochemicals market report include Akzonobel, Alnor Oil Co., Inc., BASF SE, Berg + Schmidt GMBH & Co. KG, Cargill Inc., Eastman Chemical Company, Emery Oleochemicals Group, Evonik Industries, Godrej Industries, Isosciences LLC, Myriant, P&G Chemicals, PTT Global Chemical Public Company Limited, Vegetable Vitamins Food Company and Wilmar International Ltd. Many companies, offering oleochemicals, are actively trying to increase their product portfolio and regional presence to cater to different regional markets. They are primarily focused on entering the less explored markets in the developing regions.

Source: EIN NEWSDESK

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CALL TO INVEST IN DOWNSTREAM VALUE-ADDING USING PALM OIL



The economic value of biomass can potentially outstrip palm oil if it can be mobilized for the production of the right products.

Palm Oil Industrial Cluster (POIC) Sabah Sdn Bhd Chief Executive Officer Datuk Pang Teck Wai (pic) said there is an urgent need to invest in downstream value-adding using palm oil, and harnessing the wealth from the biomass.

This, he said, had been POIC's constant objective through the organization of its annual oil palm exhibition PALMEX which also highlighted the importance of the oil palm industry.

"The green agenda that we are proposing is not confined to just attracting investments into our project at the Lahad Datu palm oil industrial cluster.

"We are really pushing for the development of the bio-economy

potentials of the entire State of Sabah," he said.

Pang said this during his speech at The Green Agenda: Investment Opportunities in Bio-Based Materials symposium here, Monday.

Also present was Deputy Chief Minister cum Industrial Development Minister Datuk Raymond Tan who officiated the ceremony.

In total, said Pang, POIC Lahad Datu now has 44 investors with a total investment value of RM3.028 billion of which RM1.1 billion is realized.

He said POIC Lahad Datu has the largest concentration of foreign interests in a single location with investments from Indonesia, Singapore, Japan, Pakistan, the United States, Taiwan, Australia, the United Kingdom, India and Germany.

It also has the largest fertilizer cluster in Malaysia with eight plants in operation.

POIC Lahad Datu has the world's largest bio-refinery complex and will soon have the largest bio-refinery cluster with seven licenses already approved.

"The bio-based businesses are there to be developed and we are here bringing the stakeholders to talk about bringing the possibilities to realities," he said.

The one-day symposium attracted more than half of Sabah's 104 millers and organized by POIC with the collaboration of EU-Malaysia Chamber of Commerce and Industry (EU-MCCI).

The symposium, said Pang, aimed to keep alive the conversation about biomass and what can be done and must be done with it.

It was tailored for entrepreneurs looking for investment opportunities in bio-based materials and related businesses.

Source: Daily Express

IOI CORP BUYING OLEOCHEMICALS BIZ IN GERMANY FOR RM433M

KUALA LUMPUR: IOI Corporation Bhd's is buying Cremer Oleo GmbH & Co KG entire's oleochemicals business in Germany for 89.4mil euros (RM433.3mil) as it expands its value chain.

The plantation heavyweight said on Thursday the oleochemical business' production facilities were in Witten and Zur Hafenspitze.

"The production plant in Witten offers a broad array of mostly branded oleochemical specialty products for the pharmaceutical, cosmetic, food and performance chemicals markets worldwide.

"The Wittenberge plant provides high performance capacities for esterification with multi-step short-path distillation, distillation and fractionation of fatty acids and production of medium-chain triglycerides," it said.

IOI Corp said both plants combined offered a processing capacity of

approximately 39,200 tonnes per annum.

It said the net book value of the assets (net of liabilities) based on the latest audited financial statements for the financial year ended Dec 31, 2014 was 90.3mil euros.

IOI Corp said currently its oleochemicals division was one of the leading oleochemical producers in the world.

"The proposed acquisition represents a timely and synergistic opportunity for the group to move further up the value chain with an investment in more specialised downstream oleochemical manufacturing business which has two production plants and an established customer base comprising a number of multinational and large European companies.

"The proposed acquisition will enable the group's oleochemicals

division to expand into a new product range to serve the higher margin but difficult to penetrate pharmaceutical, cosmetic, food and performance chemicals markets worldwide.

It will also establish new production sites in the centre of the European Union, taking advantage of close proximity to key markets in Western Europe and emerging ones in Eastern Europe. In addition, this also mitigates the increased import tariff on Malaysian oleochemical into EU post Generalised Scheme of Preferences (GSP) withdrawal in 2014.

"Lastly, the proposed acquisition will enable the transfer of advanced technical, research and development, application development and process know-how back to Malaysia and benefiting the existing oleochemical production sites within the Group's oleochemicals division," IOI Corp said.

Source: EIN NEWSDECK



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BIO-BASED PERSONAL CARE PRODUCTS TO **BOOST THE GLOBAL** OLEOCHEMICALS MARKET



Fast Market Research announces the availability of Technavio's new report "Global Oleochemicals Market 2015-2019" on their comprehensive research portal.

Oleochemicals are chemical compounds derived from bio-based resources such as plant and animal fats. They are similar to petrochemicals with advantages that these are pollution free biodegradable and low on toxic levels. They are used in the production of lubricants biodiesel and bioplastics.

Technavio's analysts forecast the global oleochemicals market to grow at a CAGR of 5.95% by value during 2015-2019.

The report analyst commented "The end-user industries are varied when it comes to the use of oleochemicals for the production of various products. There has been a gradual shift in the end-user industries using oleochemicals and there is a likelihood of various new end-user segments switching to oleochemicals to offer products with new functionalities in terms of raw materials and the processes employed to manufacture them. The advancements in technology as well as chemistry will provide opportunities for alternative products/processes leading to a number of new products being developed in the forecast period. This will create

intense rivalry in the whole value chain of oleochemicals as vendors will offer varied product portfolios."

According to the report the usage of oleochemicals to produce fatty acid provides a viable option for using bio-based products for the personal care industry giving a push to the global oleochemicals market. The increase in the output of the feedstock industries will result in an increase in the output of oleochemicals manufactured globally which in turn will give rise to personal care and allied industries.

Further the report states that the major challenge is the lack of a continuous supply of feedstock for the production of oleochemical products.

The key players in the Global Oleochemicals Market are Cargill Emery Oleochemicals Evyap Godrej Industries Myriant P&G Chemicals and PTT Global Chemical while other prominent vendors include Amyris Codexis Gevo and Wilmar International

The study was conducted using an objective combination of primary and secondary information including inputs from key participants in the industry. The report contains a comprehensive market and vendor landscape in addition to a SWOT analysis of the key vendors.

Source: EIN NEWSDECK

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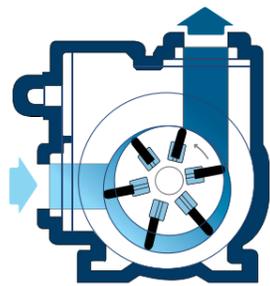
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Pump Sectional View



INTERVIEW WITH DATUK DR. CHOO YUEN MAY

DIRECTOR GENERAL OF MALAYSIAN PALM OIL BOARD (MPOB)

1 Share with us a bit about yourself as the Director-General of MPOB?

I am basically a chemist with an MBA who joined MPOB (then PORIM) in 1982 as a research scientist. I moved up the corporate ladder and went on to assume the post of Director General of MPOB. As the Director-General of the Malaysian Palm Oil Board, I am tasked with providing stewardship to the organization on strategic directions in research and development including planning, development and implementation of programmes for the oil palm industry. I oversee the overall management of research and development, licensing, enforcement and services of MPOB.

I have been involved in formulation and implementation of national policies including the National Key Economic Areas (NKEA) for Palm Oil. I have also been involved in strategizing and drafting the Malaysian Sustainable Palm Oil (MSPO) Standard, which is now a registered Malaysian standard. I have tried to create a conducive ecosystem to nurture innovation, as innovation is pivotal to the success of the oil palm industry. Being a scientist myself, I have deep empathy for the constraints faced by researchers and have taken steps to improve working conditions and put in place relevant reward systems to recognise the contributions of MPOB officers. On taking over as the DG, I formulated 10 strategic research and 12 non-research strategic thrusts in efforts to elevate MPOB to a world-class organisation.

2 Briefly describe on history and profile of MPOB?

MPOB was incorporated by an Act of Parliament (Act 582) and established on 1 May 2000 following the merger of the Palm Oil Research Institute of Malaysia (PORIM) and the Palm Oil Registration and Licensing Authority (PORLA). It is the premier government agency entrusted to serve the country's oil palm industry.

Its main role is to promote and develop national objectives, policies and priorities for the well being of the Malaysian oil palm industry. MPOB is geared to being a high performance global one-stop centre for research and information on the oil palm industry.

There are 10 divisions in MPOB. All are strategically set up so that MPOB covers the needs of the upstream, midstream and downstream activities of the oil palm industry as well as the regulatory aspects to ensure the industry experiences sustainable growth and is nurtured in a healthy manner.

3 Who will be qualified as the board members of MPOB?

Members of the Board of MPOB are appointed by the Minister of Plantation Industries and Commodities. They comprise the Chairman of MPOB; representatives from the Federal Government; representatives from other related government agencies; representatives from the industry; representatives from State Government; and the Director-General of MPOB.

At present, the representatives from the Federal Government are the Ministry of Plantation Industries and Commodities (MPIC); Ministry of Finance; and Ministry of International Trade and Industry. For other agencies, currently the representative is the Federal Land Development Authority (FELDA), while the representatives from the industry are the Malaysian Palm Oil Association (MPOA); Palm Oil Millers' Association of Malaysia (POMA); Palm Oil Refiners' Association of Malaysia (PORAM); Malaysian Estate Owners Association (MEOA); National Association of Smallholders (NASH); Sarawak Oil Palm Plantation Owners Association (SOPPOA); and the Malaysian Oil Palm Nurseries Association (MOPNA). The representatives from state governments are the Sarawak State Government and the Sabah State Government. The Board plays a leadership role in giving direction to the organisation.

» Table 1 – Members of MPOB Board of Directors

Members	Representatives
Federal Government	Ministry of Plantation Industries and Commodities; Ministry of Finance; and Ministry of International Trade and Industry.
State Government	Sarawak State Government; and Sabah State Government.
Agencies	FELDA.
Industry	Malaysian Palm Oil Association; Palm Oil Millers' Association; Palm Oil Refiners' Association of Malaysia; Malaysian Estate Owners' Association; National Association of Smallholders; Sarawak Oil Palm Plantation Owners' Association; and Malaysian Oil Palm Nurseries Association.
Chairman	MPOB
Director-General MPOB	

4 What is the vision and mission of MPOB and what are the strategies of MPOB in order to achieve the vision and mission as mentioned?

MPOB holds the Vision of becoming the premier Nobel Laureate-producing research and development institution, providing leadership and impetus for the development of a highly diversified, value-added globally competitive and sustainable oil palm industry. The Vision is well supported by our Mission of enhancing the well being of the Malaysian palm oil industry through research, development and excellent services.

To ensure MPOB is on the right path with regards to its Vision and Mission, MPOB has formulated a three-pronged strategy that clearly defined the areas where the oil palm industry has to excel.

The three-pronged strategy encompasses High Income; Zero Waste and Value Addition. To implement these strategies, MPOB must introduce innovations through its research and technology development. The High Income Strategy is aimed at maximizing productivity; improving production efficiency and quality; increasing value creation; global competitiveness and sustainability. To achieve this, MPOB will strive to strengthen its network, enhance market creation and establish collaborative relationships with industry players from around the world.

In pursuing the Zero Waste Strategy, MPOB will make every effort to optimize the utilization of oil palm waste and biomass. This pro-active measure is in line with the waste-to-wealth concept and encourages collaboration between the government and the private sectors in venturing into green technologies and reducing the carbon footprint of the industry.

The Value-Addition Strategy aims to boost the gross national product from the palm oil sector through creating new growth in palm-based downstream products.

5 Any notable challenges that MPOB have faced so far in order to develop palm oil industry in Malaysia?

Challenges that the oil palm industry is facing include labour and land constraints, enhancing productivity from available plantation acreage, sustainability and market developments. MPOB is addressing these challenges head on.

To lower the dependence on manual labour, MPOB is encouraging the oil palm sector to emphasize more on technology to raise the mechanization level of the sector. Towards this end, MPOB has developed commercially viable technologies to assist the upstream segment of the industry. Machine and tools like CANTAS, Beluga and Rhyno have assisted the industry in the areas of harvesting and transporting the produce to the designated areas. No doubt there is still room for improvement.

To get the industry and the relevant sectors involved in raising the mechanization level at the oil palm plantation, MPOB organized the International Competition on Oil Palm

Mechanisation or ICOPM in 2014. It did trigger new inventions and innovations for the sector. The second competition or ICOPM 2 was launched this year and we are anticipating higher number of entries compared to ICOPM 1. The competition is divided into five categories. In addition to the existing four categories under the ICOPM 1, another category was added for ICOPM 2. The five categories of ICOPM 2 are Harvesting Technology; Loose Fruit Collection Technology; FFB Evacuation Technology; Crop Care Technology, and Integrated Technology. ICOPM 2 offers RM770,000 in cash prizes for the five categories. A prestigious Gold Award worth USD\$1 million will be given to the Winner of Winners based on outstanding innovation and creativity, which has the potential to transform the mechanisation scene in the oil palm industry. Entries can be submitted now until 30th November 2015. Details on ICOPM 2 and the submission process are available at www.mpo.gov.my/ICOPM.

On the challenge of depleting agriculture land and the need to boost production to go side by side with the rise in consumption, the obvious solution to this is technology. MPOB has successfully developed superior oil palm planting materials with excellent oil yield potential for the industry to use. MPOB's investment in genome research has reaped large benefits. Genes that have significant effects on yield (shell and fruit colour genes) have been identified and diagnostic kits developed to ensure only the high yielding fruit palms are planted. The breakthroughs were in fact published in the highly acclaimed journal Nature. These technological breakthroughs will boost palm oil output even though the land for oil palm plantation remains constant.

In the case of environment and sustainability, these have always been the concerns of MPOB. We advocate sustainability, based on the holistic concept of balancing the three key elements of sustainability, namely the people,

planet and profit or often referred to as the 3Ps. Being guided by these three P's will ensure that Malaysia will be able to meet the needs and aspirations of the present generation without compromising the ability to meet the needs of our future generation. With MPOB's support and guidance, the Malaysian oil palm industry strives to strike a balance between social, environmental and economic needs of country and people.

MPOB has also developed a sustainability certification scheme known as the Malaysian Sustainable Palm Oil (MSPO) to ensure that all players in the Malaysian oil palm industry invest in sustainability undertakings. The Government had on 21 March 2014 approved the implementation of the MSPO and this scheme is officially implemented as of January 2015. The MSPO certification scheme is an alternative to currently available sustainability certification schemes which include the International Sustainability and Carbon Certification (ISCC); Roundtable on Sustainable Biomaterials (RSB); Indonesian Sustainable Palm Oil (ISPO); and Roundtable on Sustainable Palm Oil (RSPO).

The MSPO contains 7 principles covering management commitment and responsibility; transparency; compliance to legal requirements; environment, natural resources, biodiversity and ecosystem; best practices, and development of new planting. Its principles and criteria are designed to address constraints and reflect local conditions bearing in mind that cultivation and processing methods are different in different parts of the world. The inclusion of smallholders, who play an important role in the oil palm industry, in the MSPO standards is especially significant because smallholders contribute up to 40 per cent of the total area under oil palm in Malaysia.

The MSPO has been drawn up with attention on the balance between strictness and compliance; and achievable targets of smallholders. The MSPO standard therefore supports smallholders' sustainability certification and standardises sustainable practices already evident in the industry. In addition evidence of sustainability will ensure fair pricing of palm fresh fruit bunches (FFB) from smallholders, thereby enhancing their income. Currently 9 estates, 3 independent smallholders and 6 mills have been MSPO certified.

Market development is another challenge that MPOB is continuously managing. In addition to providing the oil palm industry players with the relevant economics and statistics on the sector every month, MPOB also organizes conferences and seminars to provide a platform for the industry players to collaborate as well as keeping themselves abreast with the latest developments and technologies related to the sector.

For example, MPOB will be organizing the MPOB International Palm Oil Congress and Exhibition or PIPOC 2015 this October. It is a biennial event that acts as a stage for the industry players to interact and share information in all areas of the oil palm/palm oil industry as well as the oils and fats sector. Apart from talks and discussion, a grand exhibition with a total of 300 booths will be part of the congress that will showcase many new technologies and the latest information on the industry.

PIPOC 2015 will have five concurrent conferences to examine and discuss the many facets of the oil palm industry.

The last event, PIPOC 2013, was attended by more than 2,200 participants from 48 countries. The five concurrent conferences of PIPOC 2015 are Agriculture, Biotechnology & Sustainability; Chemistry, Processing Technology & Bio-Energy; Food, Lifestyle & Health; Oleo & Specialty Chemicals; and Global Economics & Marketing.

Misguided anti-palm oil campaigns by various lobbies is a constant challenge that the oil palm industry faces. In the 80's the campaigns were on health issues. However, MPOB (then PORIM) engaged international independent experts to carry out intensive research to investigate the nutritional properties of palm oil. The results confirmed that the attacks on the health effects of palm oil were baseless but in fact palm oil is trans fatty acid-free and has several superior nutritional and health attributes. The lobbyists then turned their attacks to environmental and sustainability issues and these have been addressed and continue to be addressed by MPOB and MPIC as described above.

6 What do you see of palm oil industry development in Malaysia? What is driving the demand for palm oil?

The oil palm industry development in Malaysia is progressing on the right track. It has progressed by leaps and bounds when one compares the industry's early days to its existence at present. Today, the oil palm is the most important agriculture crop and the oil palm industry is the pillar of Malaysian agriculture and mainstay of rural economy.

Oil palm covers about 5.39 million hectares or more than 70% of the country's agricultural land. The industry is an engine of growth contributing about one-third of the agriculture GDP. It has become an important sector for the country in improving the livelihood of the rural folk. The industry provides employment to more than 610,000 people, including some 200,000 smallholders.

Malaysia produced 19.67 million tonnes of crude palm oil (CPO) in 2014, up by 2.3% from 19.22 million tonnes in 2013. The country exported 25.02 million tonnes of oil palm products in 2014 against 25.70 million tonnes in 2013, the export value recorded was higher at RM63.46 billion in 2014 compared to RM61.36 billion in 2013.

Palm oil is not only important for Malaysia but also for more than 150 countries around the world which consume palm oil. Among the most important markets of Malaysian palm oil are China, European Union, India, Pakistan, USA and West Asian countries.

MPOB is entrusted with the responsibility by the Government to ensure the Malaysian oil palm industry continues to forge ahead towards a sustainable oil palm industry. Leveraging on the three-pronged strategy mentioned earlier coupled with collaborative partnerships and a resilient workforce, we are confident of achieving the objective.

As for the driving demand for palm oil, we have to realize that the world population will always be in need of a steady supply of vegetable oils and fats i.e. food and affordable prices. The oil palm is 5 to 10 times more productive in terms of oil yield than all other oil-bearing crops and is in the best position to meet the growing global demand for oil. There rests the main demand for

palm oil. Furthermore, due to its versatility, there are demands for palm oil in the non-food sector too. In the energy sector, the oil palm industry can and has contributed significantly. Its biomass and effluent are being used by the industry as fuel for the steam boilers and power the generators at the palm oil mills. Biodiesel is another area where palm oil is making headway. Palm oil can be used as feedstock to produce biodiesel (palm methyl ester) which is a diesel substitute. By blending a certain percentage of palm biodiesel with petroleum diesel, the palm oil industry helps to lower the burning of fossil fuel in the world.

7 It is well known that palm oil has plenty of benefits towards economic and social well being and human life as well. However, there are certain organizations claimed that palm oil is a threat towards the society. What do you see of the issues and what can be done to correct the wrong perception of palm oil?

The benefits of palm oil are manifold. It has been proven scientifically and recognized by many international medical and health-related bodies. MPOB through its numerous Technical Advisory Services (TAS) offices worldwide will work relentlessly to inform and educate such societies on the nutritional and health benefits of palm oil consumption. The Malaysian Palm Oil Board is committed to sustainable production of palm oil. We will also enlighten the world of the sustainable practices of the oil palm industry. It is our role to educate the public on palm oil and importantly look at other people's perspectives and see why they hold the views they do. Publication in peer-reviewed journals is a good avenue for educating the international community. It is education that gives people the capacity to remove prejudice and discrimination. It is true that oil palm is grown in one of the most ecologically sensitive areas of the world rich in biodiversity. It is thus imperative to grow it in a sustainable manner ensuring that people, planet and profit are all part of the equation.

8 Biofuel could be another energy source after diesel fuel. It has the pros of reducing carbon dioxide greenhouse emission which will lead to global warming. At the same time, the cost benefit would be higher than diesel fuel too. However, there is concern

that using valuable cropland to grow fuel crops might have an impact on the food costs and could possibly lead to food shortages. What is your point of view regarding biofuel?

There is a misperception on this subject. Biodiesel is an alternative fuel. We would like to think that the fossil fuel will always be there as an energy source to power up the world. But this is not the case as a fossil fuel is depletable resource. At present, the world is trying out the various blends of vegetable-based methyl ester with petroleum diesel to come up with biodiesel. The blend works with diesel engines. In the case of Malaysia, the blend is 7% PME with 93% petroleum diesel. Indonesia has a higher ratio. But this does not mean that the oil palm grown at present will be used to produce biofuel only. Its main purpose remains as a supply of vegetable oils and fats. That it could be used to produce biodiesel is a bonus because during a situation of high stock overhang, demand for palm oil will always be there thus acting as a price booster.

9 Crude Palm Oil (CPO) prices have been hit hard this year, which is falling to a five-year low, as the Director-General of MPOB, do you have any advice for palm oil industry players in order to standstill in the market?

Commodity price movements are mainly due to the forces of supply and demand. The silver lining when prices are at the lower band is that it provides opportunity for the oil palm industry players to replant their estates, plantations or holdings. The move will check on the supply thus push prices upwards.

10 Any expansion or development plan for MPOB in the next coming 5 years?

MPOB is always expanding either in the physical sense or in terms of activities. However, the driving force behind the expansion remains the same that is to achieve its Vision and Mission in addition to nurturing Malaysia's oil palm sector to grow in a sustainable manner.

ASIA PALM OIL MAGAZINE TESTIMONIAL

“In today's economy, as a business owner, I have to be very careful where I choose to spend those allotted marketing funds. I truly feel that the quality of Asia Palm Oil Magazine and its distribution area makes it worth the investment, the price is unbelievable for the volume of readership, and the end result is great. I truly appreciate the enthusiasm and integrity of Asia Palm Oil Magazine, and YKL is proud to be part of it.”

Mr Max Yeo,
Marketing Director of YKL Group

“We are the early subscriber of Asia Palm Oil Magazine since Year 2012. We have seen the quality and presentation of the content being upgraded from year to year, more importantly the circulation rate to our target prospects are also improving well. We are looking forward the Magazine footprint will expand further to new emerging market worldwide, and is confident the Publisher shall see to it. We will continue to render our support to this Magazine.”

Ter Hsu Hui, Executive Director,
Taner Industrial Technology Sdn Bhd

PROCUREMENT CORNER

ACIDCHEM INTERNATIONAL SDN BHD

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Prai Industrial Complex, 13600 Prai, Pulau Pinang
Tel: +604 390 7818
Fax: +604 390 7153

ARAH KAWASAN SDN BHD

Add: Lot 713, Mukim Sungai Batu, Daerah Bandar Baharu,
Kedah.
Tel: +604 369 0017
Fax: +604 588 7137 / +6019 451 7711

ALAMI VEGETABLE OIL PRODUCTS SDN BHD

Add: No. 60, Jalan Bunga Melati 2/2, Section 2,
40000 Shah Alam, Selangor
Tel: +603 3122 1200
Fax: +603 3122 2707

BINTULU EDIBLE OILS SDN BHD

Add: PO Box 256, 97007 Bintulu, Sarawak
Tel: +6086 251 150
Fax: +6086 251 120

BONASABA SDN BHD

Add: Lot 9& 10, Sedco Industrial Estate,
Kolombong Off Jalan Lintas, 88300 Kota Kinabalu, Sabah
Tel: +6089 882 222 / 883 245/884352
Fax: +6089 884 428

CACAO PARAMOUNT - TECK GUAN KCP

Add: Teck Guan Regency, 318,
Jln. St. Patrick Off Jln. Belunu, Tawau, Sabah
Tel: +6089 772 277 / +6089 758 955
Fax: +6089 769 955 / +6089 760 955

DAVOS LIFE SCIENCE SDN BHD

Add: No. 25, Jalan Sungai Pinang 5/18, Fasa 2D,
Tmn Perindustrian Pulau Indah, 42920 Klang, Selangor
Tel: +603 3101 2633 Ext 8031
Fax: +603 3101 3299

FATTY CHEMICAL (MALAYSIA) SDN BHD

Add: 2510, Lorong Perusahaan Satu,
Prai Industrial Complex, 13600 Prai, 2510,
Lorong Perusahaan Satu
Tel: +604 399 8500
Fax: +604 392 3858

FELDA -JOHORE BULKERS SDN BHD

Add: Peti Surat 67, 81707 Pasir Gudang, Johor
Tel: +607 251 4282
Fax: +607 251 4865

FPG OLEOCHEMICALS SDN BHD

Add: Lot 3831, Kuantan Port Industrial Area,
Tanjung Karang, 26080 Kuantan, Pahang
Tel: +609 585 2229
Fax: +609 585 2273

FUTURE PRELUDE SDN BHD

Add: No. 11, Jalan Sungai Pinang 5/17,
Taman Perindustrian Pulau Indah, Fasa 2,
Wesport, 42920 Pelabuhan Klang, Selangor
Tel: +603 3326 7333
Fax: +603 3326 7222

FVOP SDN BHD - SAHABAT OIL PRODUCTS

Add: Peti Surat 150, 91150 Lahad Datu, Sabah
Tel: +6089 811 500/1
Fax: +6089 811 502

GOMEDIC SDN BHD

Add: L20, Menara Standard Chartered, 30,
Jalan Sultan Ismail, 50250 Kuala Lumpur
Tel: +603 2117 5356
Fax: +603 2117 5357 / +603 3101 0026

GRANDEE BIOTECHNOLOGIES SDN BHD

Add: Lot 206A, Jln 2/5,
Gebeng Industrial Estate Phase II, 26080 Kuantan, Pahang
Tel: +609 583 8068
Fax: +609 583 8058

GREEN EDIBLE OIL SDN BHD (Formerly Green Biofuels)

Add: Kretam Holding Bhd, Lot 6, Blok 44,
Lebuh 3, PO Box 1092, 90704 Sandakan, Sabah
Tel: +6089 664 999
Fax: +6089 631 777

INSTOLASI FELDA OIL DEPOT P.GUDANG

Add: Plo 90, Jalan Besi 2,
Kaw. Perindustrian Pasir Gudang, 81700, Pasir Gudang,
Johor
Tel: +607 251 4676 / 252 8608
Fax: +607 251 0001

INSTOLASI FELDA PELABUHAN KUANTAN

Add: Jln Pelabuhan 1/6, Tanjung Gelang,
26080 Kuantan, Pahang
Tel: +609 583 3227/228
Fax: +609 583 3875

K.K.S KUALA PERTANG

Add: Wisma Taiko, No. 1, Jalan S.p Seenivasagam,
Ipoh, Perak
Tel: +609 977 5386 / +605 241 7844 (HQ)
Fax: +609 977 5368 (Mill) / +605 243 7405 (HQ)

K.K.S LADANG GUA MUSANG

Add: Chin Teck Plantations Berhad,
Gua Musang Estate Palm Oil Mill, PO Box 28,
18300 Gua Musang, Kelantan
Tel: +609 912 6288
Fax: +609 912 1288

K.K.S TENGGAROH TIMUR 4

Add: Karung Berkunci No. 534, 81909
Kota Tinggi, Johor
Tel: +607 791 2444 / 888
Fax: +607 791 2999

KILANG ISI SAWIT KCP

Add: Batu 12, Jalan Bidor, Peti Surat 120,
36008 Teluk Intan, Perak
Tel: +605 656 2970 /+605 656 1212
Fax: +605 656 1442

KILANG ISI SAWIT PASIR GUDANG

Add: Lot 149, Kaw Perindustrian Semambu,
25350 Kuantan, Pahang
Tel: +609 566 1910
Fax: +609 566 5002

KILANG KELAPA SAWIT DIAMOND JUBILEE

Add: Diamond Jubilee Oil Mill, 77009 Jasin, Melaka.
Tel: +606 529 1302
Fax: +606 529 2019

KILANG KELAPA SAWIT YONG PENG

Add: PO Box 104, 83700 Yong Peng, Johor
Tel: +607 481 1811
Fax: +607 481 1922

KILANG SAWIT SAHABAT

Add: Peti Surat No.6, 91150 Cenderawasih,
Lahad Datu, Sabah
Tel: +6089 811 121
Fax: +6089 811 141

KLK PREMIER OILS SDN BHD

Add: Mdld 5897, Lot 85, Jalan Kastam Baru,
Lahad Datu, 91100 Tawau, Sabah
Tel: +6089 882 177
Fax: +6089 880 177

LANGSAT BULKERS SDN BHD

Add: PO Box 160, Pasir Gudang, Johor
Tel: +607 255 2692
Fax: +607 256 3082

LERENO SDN BHD

Add: Plot C3 (A/EAST), Lumut Port Industrial Park,
Kg. Aceh, 32000 Setiawan, Perak
Tel: +605 692 3115
Fax: +605 692 1113

MAN JANG BIO SDN BHD

Add: No. 35B, Jalan Anggerik Vanilla AB 31/AB,
Kota Kemuning, Seksyen 31, 40460 Shah Alam, Selangor
Tel: +603 5122 2240
Fax: +603 5122 2420

MISSION BIOTECHNOLOGIES SDN BHD

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19/1, 46300 Petaling Jaya, Selangor
Tel: +603 7960 8770 /+609 583 8855
Fax: +603 7960 8771 / +609 583 5155

NATURAL WAX SDN BHD

Add: Plo 428, Jalan Besi 1,
Kaw. Perindustrian Pasir Gudang, 81700 Pasir Gudang, Johor
Tel: +607 253 3772
Fax: +607 252 8717/+607 251 1614

NEW PORT BULK TERMINAL SDN BHD

Add: PO Box 64, 81707 Pasir Gudang, Johor
Tel: +607 251 1445
Fax: +607 251 1864

NORSTAR PALM OIL MILL SDN BHD

Add: PO Box 301, 09300 Kuala Ketil, Kedah.
Tel: +604 472 7960
Fax: +604 403 6120

PACIFIC OILS & FATS INDUSTRIES SDN BHD

Add: PO Box 132 No. 142, Jalan Dermaga,
Kawasan Zon Perdagangan Bebas, Lembaga Pelabuhan
Pasir Gudang, 81707 Pasir Gudang, Johor
Tel: +607 252 3440
Fax: +607 252 3541

PALM OLEO SDN BHD

Add: Lot 1245, Kundang Industrial Estate,
48020 Rawang, Selangor
Tel: +603 7809 8919
Fax: +603 7727 1301 / 1307

PROSPER PALM OIL MILL SDN BHD

Add: Bahau Keratong Highway,
72120 Bandar Sri Jempol, Bahau, Negeri Sembilan
Tel: +606 461 1016 / 906
Fax: +606 461 1907

SANDAKAN SPECIALTY FATS SDN BHD

Add: Peti Surat 2605, 90729 Sandakan, Sabah
Tel: +6089 611 015/2
Fax: +6089 611 014/ +6089 617 355

SUPERVITAMINS SDN BHD

Add: Batu 9, Jalan Kong Kong , 81750 Masai, Johor
Tel: +607 256 3319
Fax: +607 251 2518

SYARIKAT KION HOONG COOKING OIL MILL

Add: PO Box 391, 93706 Kuching, Sarawak
Tel: +6082 330 731
Fax: +6082 330 569

TUNG GUAN OIL MILL SDN BHD

Add: Batu 26, Sungai Besar, 82200 Benut, Pontian, Johor
Tel: +607 424 1054
Fax: +607 424 1895

INTERVIEW WITH MR. JACKY CHEN

Managing Director of Nantong Ant Machinery Co., Ltd.



1. Share with us a bit about yourself before you joined Nantong Ant Machinery Co., Ltd.?

Prior to joining Nantong Ant Machinery Co., Ltd, I was a sales agent for Honda and Briggs & Stratton which supplies a variety of engines for various industries ranging from agriculture to commercial. My past experience had enabled me to perform better in my current role. Nantong Ant Machinery used to manufacture engines during the early days but we gradually shifted into manufacturing machines and power barrows, where we feel its more functional than just being a company that manufacturers parts!

2. Briefly describe on history and company profile of Nantong Ant Machinery?

Established in 2003, Nantong ANT Machinery Co., Ltd specialized in research & development, production and sales of light construction machinery. Our products which

include power barrows, construction machinery and garden machinery, fulfil the international quality standards as we received certificates such as CE certificate, EPA certificate and European Patent certificate. Currently, about 85% of our products have been exported worldwide. As a result of our high quality products and outstanding customer service, we have gained a global sales network reaching Australia, Germany, Canada, Kazakhstan, Russia, Malaysia and New Zealand. The state-of-the-art facilities and excellent quality control throughout the stages of production has enabled us to gain customer satisfaction. Currently we are in the progress of growing rapidly with more innovations and strive to become a leading provider in the light engineering machinery industry.

3. Established in Year 2003, Nantong Ant Machinery specialized in research & development, production and sales of light construction machinery. What do you think have contributed to the company's achievement in today?

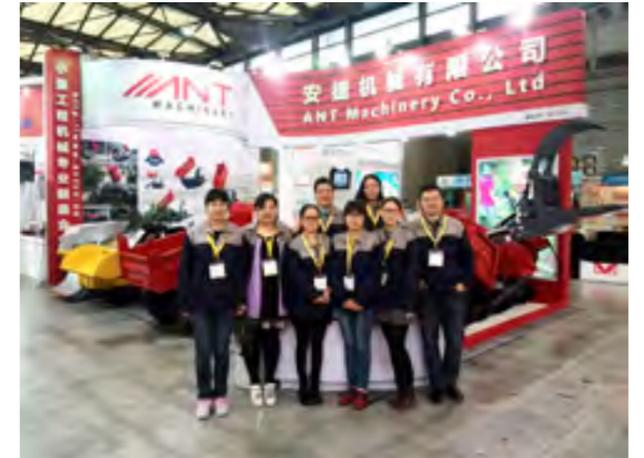
Our impeccable desire to maintain the excellent quality of our products and to fulfill customer's satisfaction. We always try to assure that our clients receive the best service and products. I believe these have brought us to what we have achieved today, although we still aspire to do better in the near future. Our belief in encouraging ourselves to keep moving forward also contributes as one of the elements in our success formula.

4. What do you think were some of your company's greatest milestones under your leadership?

In Year 2004, we invented the first power barrow, BY250. In Year 2006, we invented power trowel and that product registered more than 10,000 machines sold! It was a great achievement to us! In between Year 2008 and 2009, power barrow BY800 and BY1000 were successfully invented and being well marketed. We even got these inventions patented and found suitable authorized distributors in Malaysia and Australia. Later, the newest model of power barrow BY 135 and cutting machine QG 220 were successfully invented in 2014. These new inventions were being exhibited at Bauma China exhibition and received raving reviews!



>> 2014 Bauma China



>> ANT's sales team in exhibition



>> Power barrow with powerful traction

5. What notable challenges have Nantong Ant Machinery faced so far?

Along the development journey of Nantong Ant Machinery, there are a few challenges we faced. First of all would be the instability of the US dollar, as our business has been reaching out to international markets, the fluctuations and volatility affected our business from time to time.

Increasing of labor cost and manufacturing cost in China also have affected us tremendously. China government has been actively promoting the development of service sector, high-tech industries and domestic consumption in order to ensure sustainable growth, thus raising minimum wages barriers. This results in higher manufacturing costs as and driving out low-end businesses.

However, I believe we would be able to overcome the challenges together as long as our current team stays united.

6. Could you please tell us more about the range of products and services provided by your company?

Nantong Ant Machinery prides itself and its expertise in the production of light construction machinery which can be widely used in the agricultural and construction industries such as municipal engineering, bridges, tunnels, water conservancy and electrical power engineering. Our present leading series of products include power trowel, plate compactor, road concrete cutter, tamping rammer, concrete vibrator, power barrow and

more. As for power barrows, the loading capacity can range from 150kg to 1000kg. And our machines are available in a variety of gasoline-powered or diesel-powered.

7. What role does Nantong Ant Machinery play in the Malaysian palm oil industry?

Along the palm oil production chain, we act an important role in the transmission part. Our transmission machinery is very helpful in transporting palm fruits from plantation points to the collecting points in the field. Application of the machinery will definitely increase the work efficiency by saving time and also reducing the man power involved.

8. Any expansion or development plans for Nantong Ant Machinery in the next coming 5 years?

For the next coming 5 years, we aim to stabilize our South East Asia presence in order to stand firm in the international

market in the future. Getting an authorized distributor in Indonesia is our next step, and gradually followed by other South East Asia countries. We look forward in increasing the sales year by year where our final target is to sell more than one million machines (or more) per year.

9. How Nantong Ant Machinery strives to stand out against competitors and succeed in an increasingly competitive international marketplace?

We emphasize on self-improvement from time to time, continuously seeking improvement of our product quality and at the same time to ensure new product innovations for new market demands. These are important to maintain sustainable development of our company. Besides, we strongly uphold to the principle of "customer first". We have an excellent after sales service team to serve our clients and always "ready" for them. With these, I believe we are able to stand out against the competitors to succeed in this competitive market.



>> Field operation



>> Test In Oil Palm Plantation



>> ANT staff



ANT Machinery Co.,Ltd.

Website: www.antcn.cn

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0086-513-68881082, 68881083

Email: jacky@antcn.cn



BY250S



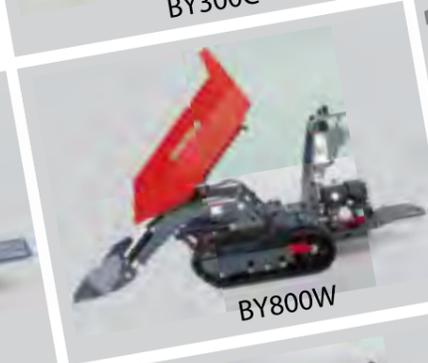
BY300S



BY300C



BY800



BY800W



BY800S



BY1000



BY1000M

POWER BARROW

The "ANT" Power Barrow series are manufactured to the highest quality and specification.

Reliable commercial grade Honda or Briggs&Stratton gasoline engine enjoy global warranty and ensure maximum traction when moving loads on wet and uneven grand.



**Malaysia Agent
Palmtech Enterprise**

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Tel: 60 13 8867833

Email: waikong.chok@palmtechenterprise.com

“We design for robustness, easy and low maintenance with safety and stability”



MUAR BAN LEE GROUP BERHAD
Get The Most Out Of It



MBL TECHNOLOGY
MUAR BAN LEE TECHNOLOGY S/B
Members of Muar Ban Lee Group Bhd



POME TREATMENT TECHNOLOGY S/B



WP TECHNOLOGY
WP TECHNOLOGY S/B

- > Possess more than 28 years technical know-how and hands-on experiences in Palm Oil Industry - Crushing Machinery.
- > Installed more than 250 oil seed crushing plants with approximate 7,000 units oil seed crushing machinery across the globe.
- > Range of services include system design, fabrication and installation, commissioning, training and after sales services.

- > One of the leading oil seed crushing manufacturer for:
 - * Palm Kernel
 - * Coconut / Copra
 - * Jatropha & Other Oil Seeds
 - * Filters & Spare Parts
- > Series of EFB Machinery, Equipment & Treatment Plants for :
 - * Boiler Fuel
 - * Oil Recovery
 - * Organic Fertilizer Plant / Compost
 - * EFB Fibre Processing Plant
 - * MDF & Particle Board Production Plant
 - * Pellet, Pulp & Paper Plant



OIL SEEDS EXPELLER



COPRA/COCONUT OIL EXPELLER

EFB TREATMENT MACHINERY



WP - Daitoku

Organic Compost Plant

- Transform EFB & POME into organic fertilizer / compost
- Save fertilizer cost (15% - 20%)
- Increase oil palm production (10% - 20%)
- Maximize the usage of EFB (100%)
- Utilize POME (100%) and discharged water

*Germany Organic Fertilizer BSC Certified
No. A-2011-01053 / 2011- 03715 - 03716 - 03717 - 0107
*15 ~ 20 days fermentation

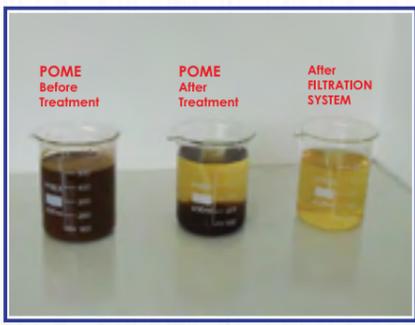


POME Treatment Plant

Continuous POME Filtration System

- Capacity of 20~40 tons per hour (Subject to the water content or sludge content. To be further confirmed after site visit)
- BOD & COD Removal : 60% ~ 70% after thickening belt : 80% - 90% at discharges outlet
- Suspended Solid Recovery : 80% - 95% with Clarifier System
- Moisture remain in sludge (70% ~ 80%)
- No additional pond required
- Shorten discharging period
- Environmental friendly

Advantage :
Continuous Filtration System !!!



Biogas Plant

Designed for POME: Biogas

- COD & BOD Removal (90%~95%)
- USR Integrated Technology System
- Enamel Tank Assembly or Reinforced Concrete with more than 30 years of service life
- Pre-treatment enhance biogas production
- Low sulfur content

Advantage :
Bioenergy & Green Energy System !!!



Contact Us:
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Website : www.MBL.com

Disclaimer: Muar Ban Lee Group Bhd makes no warranties or representations of any other manner that might mislead. Should you have any queries on authorized agent, kindly contact us for more informations.



» Increasing oil palm yield and enhancing production efficiency are viable alternatives to opening new lands for oil palm cultivation. Photo: Malaysian Palm Oil Council

MORE OIL FROM NEW HYBRIDS OF OIL PALM

On a per hectare basis, no other crop produces as much vegetable oil as the oil palm (*Elaeis guineensis*).

In Malaysia, the average oil palm yield per annum is 4.25 tonnes of oil per hectare, far exceeding the rapeseed (0.59 tonnes), sunflower (0.42 tonnes) and soybean (0.36 tonnes) oils produced elsewhere.

Indonesia and Malaysia supply about 85% of the world's palm oil, followed by Thailand, Colombia and

Nigeria which make up the top five palm oil-producing countries.

Global consumption of vegetable oils in 2014/15 was 173.27 million tonnes (www.statista.com), of which 60.73 million tonnes were palm oil while the rest were soybean oil (46.79 million tonnes), canola oil (27 million tonnes), sunflower seed oil (15.18 million tonnes) and others (23.57 million tonnes).

According to the book *Palms Of Controversies: Oil Palm And Development Challenges* published

online by the Centre for International Forestry Research (CIFOR), oil palm occupies only 7% of the land worldwide assigned to oil-producing plants, but produces 39% of the global supply of vegetable oil. (Soy produces 27% of the world's vegetable oil, but occupies 61% of the land used to produce the oil.)

MEETING DEMANDS

While there is a need to step up production to meet future demand, one academician cautions that a

sensible development strategy should be adopted, that respects ecological balance, biodiversity as well as the needs of inhabitants of the land involved.

"We have to be very strict to guarantee that land expansions are not to occur on forests, especially peatland and areas that are important for biodiversity conservation," says Dr Roman Carrasco, assistant professor at National University of Singapore's Department of Biological Sciences who presented a paper on Meeting Future Oil Palm Demands with Minimal Biodiversity Loss at the University of Nottingham Malaysia KL Teaching Centre recently.

His studies show that with current yields, future demands can't be met without conversion of forests and other areas with biodiversity into plantations.

To reconcile agricultural production with biodiversity conservation, "we need to be strategic as to where we grow oil palm," he says in an e-mail interview.

"By reusing degraded land and converting grasslands, we can produce up to two times more palm oil without converting forests. Many of these grasslands would be in countries like Colombia though," he says.

On future needs, Carrasco says that an additional demand of 117 million tonnes of palm oil by 2050 is a realistic projection, based on findings by Dr R.H.V. Corley, a plant physiologist who had worked for over 25 years in oil palm research in Malaysia.

Carrasco calculates that an additional 70 million tonnes of palm oil is the maximum that can be derived under present conditions – by closing yield gaps in existing oil palm crop land, or by converting existing agricultural land, degraded land or grasslands into plantations.

By reusing degraded land and converting grasslands, we can produce up to two times more palm oil without converting forests.

So how can palm oil producers make up for the shortfall without opening up new land?

RAISING OUTPUT

Early planters recognised that plant breeding plays an important role in producing seedlings that will grow into higher yielding palms.

In the 19th century, planters tried to create various hybrids, with a few thick-shelled dura palms cultivated in Indonesia's Bogor Botanic Gardens in Java in 1848.

Selections were made from this batch of pioneer hybrids in Bogor, and the plants were then shipped to Sumatera's Deli province as well as then Malaya. This hybrid became known as the Deli dura which was found to be a high-yielding palm.

With interest in the crop growing after it was found that palm oil could substitute animal fats in candle, soap and margarine, breeders crossed whatever they could find to produce hybrids with desired qualities.

The Deli dura showed promise and was quickly adopted by planters in the region from the early 1910s. Its popularity lasted for at least 50 years before another hybrid's performance surpassed it.

From the 1960s onwards, the tenera became the dominant planting material as it is fully thin-shelled while having a thick mesocarp, resulting in even higher oil yield.

With an economic lifespan of 25 years, the current generation of tenera palms planted in Malaysia produces about four tonnes of crude palm oil per hectare per year (t/ha/yr), 0.5t/ha/yr of palm kernel oil, and 0.5t/ha/yr of palm kernel cake. In 2012, the national average production of fresh fruit bunches was 18.89 t/ha, while oil extraction rate was at 20.35%.





» Palm breeding is a long and arduous process – creating a new breed can take about a decade. Filepic

R & D

Scientists have also come up with high-yielding varieties that are resistant to disease, and able to tolerate prolonged drought.

Carrasco sees new high-yielding varieties and increasing the efficiency of production as alternatives to opening new lands for oil palm cultivation.

Oil palm plantations' increased output in the past 50 years has been attributed to 70% cultivar improvement and 30% refinements in agronomic processes.

Palm breeding is a long and arduous process. It takes at least three years for the plant to bear fruit. Scientists then observe fruit production as well as oil yields for another four to six years, before spending another year to create desired hybrids. As such, creating a new breed takes about a decade.

This is what big plantation companies are investing in, as they strive to maximise yield from existing land.

Other notable attempts include the sequencing of the oil palm genome two years ago, with the results published in the journal *Nature*.

Mapping the oil palm genome enables researchers to pinpoint genes responsible for important traits that will help the crop to be grown more sustainably, although plenty of work still needs to be done before a superpalm could be produced.

"Global demand for edible vegetable oils is growing at 4% to 6% annually, while genetic improvements can only contribute around 1% annually, at best," says Dr Tristan Durand-Gasselin, chief executive officer of PalmElit, a France-based company that specialises in oil palm breeding.

"So, there is a huge gap that must be filled by either increasing the acreage or improving the productivity of existing plantations,"

» The fruit of the *virescens* oil palm changes colour as it ripens, signalling the optimal time for harvesting and oil yield.

says Durand-Gasselin, who was hired by Felda Agricultural Services, along with other foreign scientists, to raise Felda's palm oil production.

The fruit of the *virescens* oil palm changes colour as it ripens, signalling the optimal time for harvesting and oil yield.

TRUE COLOURS

Last year, a team of Malaysian scientists together with their counterparts from the US-based Orion Genomics reported that they have identified the *virescens* (VIR) gene in oil palm.

The VIR gene determines the outer skin colour of the oil palm fruit as it ripens, which is key to knowing the right time for harvest.

At present, harvesters determine whether oil palm fruits are ripe by their colour. But harvesting too early significantly decreases oil yields, whereas collecting overripe fruit means lower oil quality.

Currently, most of the palm fruit harvested in Malaysia and Indonesia are of the *nigrescens* variety. These fruits basically turn from black to dark purple at the apex of their ripening, hardly a drastic change visually.

As for the *virescens* oil palm, fruits change colour from green to bright orange as they ripen, giving a much clearer indication to harvesters.

With the identification of the VIR gene, palm growers can begin to replace their *nigrescens* palms with the *virescens* variety, eventually increasing the efficiency of harvest and oil yield.

Source: *Star 2*



CARGILL FINDS NEW WAYS TO MONITOR SUSTAINABLE PRACTICES



Advancements in sustainable practices included methods to measure such practices in Cargill's 2015 corporate responsibility report issued Aug. 19.

The Minneapolis-based company in April began using drones in Indonesia to monitor forested land, which should help prevent further deforestation, a sustainable issue in the palm oil industry.

In its cocoa supply chain, Cargill this year launched a monitoring and evaluation system to provide greater transparency. The system collects data about farm sizes and crop yields as well as details about farmer organizations, communities and individual farmers who grow cocoa that Cargill sources from Côte d'Ivoire.

In the United States, Cargill is recruiting corn and soybean growers to gather data by using the Fieldprint calculator created by Field to Market: The Alliance for Sustainable Agriculture. The calculator collects data on land use efficiency, soil conservation, soil carbon, water use, water quality, energy use and greenhouse gas (GHS) emissions. Cargill expects to have 100,000 acres of land included in this effort by the end of the year.

Cargill, in its 150th year of operation, stressed the current importance of sustainable practices.

"The world has changed dramatically since Cargill began operations in 1865," Cargill said in its report. "Today, global agriculture and

food businesses are being challenged to do two things at once: produce more food for a world that is becoming more urbanized and affluent while also using land and water responsibly, and satisfy consumers who increasingly care about the health and sustainability dimensions of the food they eat.

"Companies like Cargill are responding and bringing their best strengths to bear on issues like deforestation, food security and nutrition. For the past 10 years we have focused our civic engagement, our philanthropy, our partnerships and our expertise on these large global issues. We are making progress and are committed to playing a leading role in this changing landscape."

Cargill has identified four focus areas in its commitment to sustainability: land use, water, climate change and farmer livelihoods.

Land use goals are seeking to end deforestation linked to supply chains, including the palm oil supply chain, and improving the use of degraded and underperforming lands. The company is on track to meet its goal of providing palm oil that is 100% traceable to the mill by the end of 2015 and sustainably by 2020.

Water goals are conservation in areas of water scarcity, improving water quality in areas impacted by agriculture, and promoting access to clean water. Cargill exceeded its freshwater efficiency goal this year and set a new target of improving freshwater efficiency at its facilities by an additional 5% beyond the 2015 baseline.

Climate change goals are reducing greenhouse gas emissions in Cargill's operations and supply chains, and partnering with farmers to help agriculture adapt to a changing climate. The company in July joined the American Business Act on Climate Pledge along with 12 other companies. The act supports the U.S. government in efforts to reach a climate change agreement before the United Nations' climate change conference scheduled for Nov. 30 to Dec. 11 in Paris.

Farmer livelihood goals are promoting sustainable agricultural practices to help farmers increase yields and incomes and advancing the well-being of agricultural communities. In Côte d'Ivoire, Cargill is working with Consell du Café-Cacao, CARE and farmer cooperatives to improve education and health care in 14 cocoa-growing communities. The effort includes an investment of \$1.9 million to build 11 new schools and 3 new health centers. The first facilities opened in June.

"At Cargill, we want to be the most trusted source of sustainable products and services," said David MacLennan, president and chief executive officer. "Given our broad presence in food and agriculture, we know we have a fundamental responsibility for our environmental and social impact. From our pledge to end deforestation in our supply chains to our investments in expanding capacity for food production, I believe Cargill is making a difference in global issues of importance."

Source: *Food Business News*



AGNI TO BUILD RM150 MILLION BIOMASS ENERGY POWER STATION IN BERA

Renewable energy provider, Agni Power Sdn Bhd, has allocated RM150 million to build a biomass energy power station using empty oil palm fruit bunches (EFB) here.

Its Director, Admi Othman, said the power station, which would be developed on eight hectares in Jalan Gugusan Bera, is expected to be completed in two years under the supervision of the main contractor, Emrail Sdn Bhd.

"The 10-megawatt (MW) capacity produced will be channelled to the distribution system of Tenaga Nasional Bhd here under a renewable energy power purchase agreement for 16 years.

"Bera is an appropriate selection as we have a contract with Felda to supply 850 tonnes of EFB daily to five factories located between 15 and 35 kilometres from the power station," he said.

Admi told reporters this at the groundbreaking

ceremony and launch of the power station project here Wednesday.

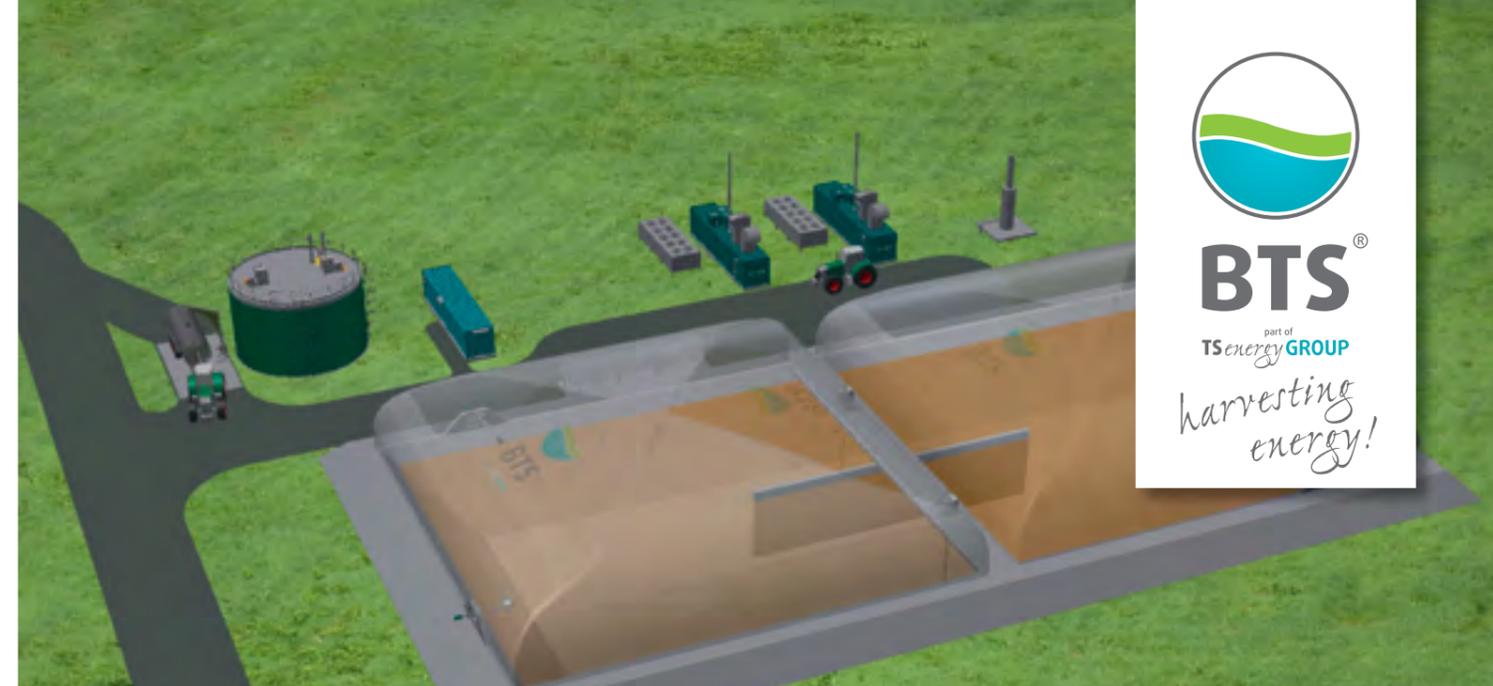
He said the power station could offer 40 to 50 jobs for local residents once completed with over 200 workers needed in the construction phase.

Meanwhile, Chief Operating Officer of the Sustainable Energy Development Authority (SEDA), Datuk Ir Dr Ali Askar Sher Mohamad, said the Bera power station would be the third station of its kind in Peninsular Malaysia to be granted a licence under SEDA.

"The first station is in Teluk Intan, Perak while the second station in Jengka, Pahang is expected to begin operating by year-end.

"Four more power stations are in Sabah that channel electricity to the Sabah Electricity Sdn Bhd," he said.

Source: *Bernama*



OIL PALM to ENERGY

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BIOGAS GENERATION: FROM PROBLEM TO OPPORTUNITY



- Fresh empty fruit bunch (EFB)

Oil palm mill effluent

- Empty fruit bunch mill (EFB)
- Empty fruit bunch fiber
- Crude palm oil
- Wastewater from the oil palm mill

- **MODULAR CONSTRUCTION** - 25 kW_{el} - 1.5 MW_{el} modules available
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**BE RESPONSIBLE,
BE SUSTAINABLE**
AND WE CAN MAKE IT BETTER
FOR OUR NEXT GENERATION

With merely 15 years entering to the 21st century, global warming, drastic weather changes and other negative environmental impacts have demolished the ecosystem worse than what had ever happened for the past hundreds of years. Mother Nature that raised all the living beings on this planet is falling sick due to inconsiderate and irresponsible behaviors of mankind. We may survive now, but the generations to come may not be as fortunate as us. It is time for us to act proactively to restore and heal this planet we all live on, for our children, grand grandchildren and the generations after. They deserve the rights to see and enjoy the clear blue skies, green forests, crystal clear rivers and lively oceans and not only hear it from the fairy tales their grandparents may tell them.

The development of a nation shall never be at the price of our next generations so things have to

be changed for the better. Standards have to be set up and controls have to be in place before it is too late. As such, MPOB (Malaysia Palm Oil Board) together with experts from the respective fields have established a sustainably protocol applicable to Malaysian palm oil industry from plantations to palm oil mills and refineries. With this, we now have the Malaysia Sustainable Palm Oil Standard – MS 2530 : 2013.

Featured organizations such as Genting Plantation Berhad, Asia Oil Plam Sdn. Bhd (J. C. Chang Pte. Ltd.) and TUNAS MPOB have voluntarily participated in the pilot audits of this Malaysian Standard on the 2nd quarter of 2014. DQS Certification (M) Sdn. Bhd. is proud to be one of the selected certification bodies in this pilot program.

Source: MBIC

**DQS MALAYSIA IS PROUD TO ANNOUNCE
GENTING PLANTATIONS BERHAD IS MSPO CERTIFIED**



⤴ The first step towards sustainably the Malaysian way – Presenting certificates MS2530-3 for Oil Palm Plantation and MS2530-4 for Palm Oil Mill. (Start from left) Mr. Soong Keng Vee (DQS Malaysia CFS Division General Manager), Tuan Haji Abd. Halim Bin Abd. Majid (Genting Plantations Berhad's Executive Vice President – Plantations), Mr. Yong Chee Kong (Genting Plantations Berhad's President & Chief Operating Officer), Mr. Choo Huan Boon (Genting Plantations Berhad's Senior Vice President – Processing) and Mr. Chew Jit Seng (Genting Plantations Berhad's Vice President – Sustainability)

**DQS MALAYSIA IS PROUD TO ANNOUNCE ASIA OIL PALM
SDN. BHD. (JC CHANG GROUP) IS MSPO CERTIFIED**



⤵ Another responsible organization receiving the Malaysia Sustainable Palm Oil certificates –(Start from left) Mr. Seow Chee Chiang (JC Chang's Estate Department Manager – Sustainability), Mr. Tay Chwee Leong (JC Chang's Mill Director) and Mr. Soong Keng Vee (DQS Malaysia CFS Division General Manager)

**DQS MALAYSIA IS PROUD TO ANNOUNCE
TUNAS MPOB HILIR PERAK IS MSPO CERTIFIED**



⤴ Another responsible organization receiving the Malaysia Sustainable Palm Oil certificates –(Start from left) Mr. Muhammad Faizul b. Yusoff (DQS Auditor) and Mr. Tan Say Peng (TUNAS MPOB coordinator)

LAND IS FINITE AND MSPO CERTIFICATION IS THE SOLUTION TO SUSTAINABLE OIL PALM PRODUCTION

Being MSPO certified is never the end but beginning of a sustainable business in Malaysian oil palm industry. MSPO certification ensures that the production of oil palm is sustainable to supply the world market responsible palm oils. As land is finite and human population is growing rapidly, it is important to ensure that the use of lands is sustainable. In view of this, Malaysian Oil Palm industry's response is positive and prompts – MSPO Certification. More and more industrial players are moving towards MSPO Certification and DQS Malaysia has certified another 2 organizations for this sustainable scheme. To show DQS' Commitment For Sustainability, DQS Malaysia is proud to have Managing Director of DQS Holding, Mr. Michael Drechsel to present the MSPO Certificates to Manis Oil Mill (Subsidiary of Ta Ann Holdings Berhad) and Asia Production Unit (Subsidiary of JC Chang Group) for extension of the scheme to Melewar Estate 2 & Hwa Li Estate 3.



The first step towards sustainably the Malaysian way for Ta Ann Holding Berhad (Manis Oil Mill) – Presenting certificate MS2530-4 for Palm Oil Mill. (Start from left) Mrs Petra Tram (DQS Holding's Regional Coordinator of International Business Development), Mr. Soong Keng Vee (General Manager of DQS CFS Malaysia), Mr. Michael Drechsel (Managing Director of DQS Holding), Mr. Shannon Yii (PA to CEO of Ta Ann Holdings Berhad) and Mrs Martina Meinefeld (International Business Development Manager of DQS Holding)



Extension of MSPO Certification Scheme to include 2 more estates for JC Chang Group (Asia Production Unit) – (Start from left) Mr. Soong Keng Vee (General Manager of DQS CFS Malaysia), Mr. Seow Chee Chiang (JC Chang's Estate Department Manager – Sustainability), Mr. Michael Drechsel (Managing Director of DQS Holding) and Mr. Danny Ng (Regional Managing Director of DQS Malaysia)

Source: MBIC



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SUSTAINABILITY COMPANY' TRANSFORMS PALM MILL WASTES INTO FUEL FOR ELECTRICITY

A company has come up with a method that accelerates the process to convert palm oil mill effluent (POME) into fuel for electricity to power mill operations.

Calling itself a "sustainability company", Hyper Fusion International says its method to create biofuel pellets from the effluent is the first of its kind for POME.

Set up in 2012, the Kuala Lumpur-based company is currently exporting these pellets to its business partner in South Korea.

Having previously been involved in the waste water management business, Hyper Fusion International CEO C. Dinesh said the company realized that the future in waste management is in the palm oil business.

"Palm mill waste is very difficult to manage. We spoke to many mill owners about our sustainable solution to managing their waste, but they were not interested in spending money on sustainability. We are not a renewable energy company; we are looking at sustainability," says Dinesh.

"In 2013, we found a palm oil mill owner in Klang who was willing to give us a chance, and a Korean company agreed to invest in us," he told StarBizWeek.

"We are not a renewable energy company; we are looking at

sustainability," says Dinesh.

Hyper Fusion treats the waste water sludge and separates the solid particles from the mix. The remaining sludge is then turned into pellets.

A palm oil mill generates four kinds of waste: empty fruit bunches, oil palm mesocarp fibre (OPMF), kernel shells (PKS) and POME – collectively known as biomass.

The company takes all the four by-products and processes them by removing up to 90% of moisture, thereby transforming them into an efficient form of fuel for the boilers.

"A mill usually has at least 10 ponds, and the ponds take up about two-thirds of the mill area.

"What we do eliminates the need for so many ponds. All we need is the first pond, and the last two ponds," said Dinesh.

Not only was Hyper Fusion's method better for the environment, he said, but also saved a lot of space in the mill area, which could be used for other operations such as farming.

The process treats the effluent and reduces the chemical oxygen demand (COD) and BOD (biochemical oxygen demand) by 80% in less than 10 minutes. The remainder is then sent into the last two ponds to complete the clarification process which takes about two weeks. When it is done using the

traditional ponding method, the entire process usually takes between 90 and 120 days.

Up to 90 of moisture is removed from palm mill wastes. The remaining sludge is then turned into pellets.

"We are not a renewable energy company; we are looking at

sustainability," says Dinesh.

"Currently, mill owners look to biogas as a way to trap greenhouse gases before they escape into the atmosphere. But after that, you still need to remove the sludge. This is a very reactive process, while ours is more proactive," he said.

Hyper Fusion is currently working with a mill in Gua Musang, Kelantan, which is about to commence farming with land which was previously ponds.

"The land is very fertile as the ponds are naturally rich with nutrients. Once they go into farming, they have a mixed income. We can even de-sludge the ponds, clean them up and rear fish," said Dinesh.

"The downstream business is additional income. However, the company does not stop at this; the amount of energy created is used to power the mill as well as its machinery.

"We have these pellets, a source of fuel, and we burn it to create energy again. With that energy, we can run that same system. Now, the loop is closed.

"We do a barter trade with mill owners. We do not pay for their waste, but we give them energy to power their operations in return.

"This is sustainability. We process their waste and give them back clean, efficient fuel.

"Efficient fuel means it is dry. The drier it is, the more efficient because you use less energy to ignite it," he said

The mill in Gua Musang will be the first self-sustaining and power-generating mill in Malaysia, Dinesh claimed.

"With this model, mills can become micro IPPs (independent power producers). This will localise power generation, which is a more efficient way of distributing electricity.

"It is a more sustainable process as there are no logistic costs involved, since the micro power plants will be located in the vicinity of the mills.

"These micro IPPs can generate between one and two megawatts of electricity, which is sufficient for the mill – with the excess supplied to the surrounding areas. We now can realise rural electrification for Malaysians through palm biomass," he said.

Source: The Star



GREEN TECHNOLOGY ON OIL PALM BIOMASS

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Malaysia is the second top producers of palm oil with a planted area of 5.39 million hectares in 2014, which is an increase of 3.1% as against 5.23 million hectares recorded in the previous year. Sabah is still the largest oil palm planted state, with 1.51 million hectares or 28% of total oil palm planted area. The success of the palm oil industry in Malaysia in terms of producing and marketing the palm oil, palm kernel oil and their derivative products is well known. Besides the oil, there are also huge amounts of oil palm wastes, such as oil palm shells, mesocarp fibre and empty fruit bunches (from the mills), oil palm fronds and oil palm trunks (from the field during replanting), being generated by the industry.

There are numerous factors to be considered and assumptions to be made when determining the amount of non-oil biomass generated by the palm oil industry. The amount may differ from mill to mill, and from estate to estate. It is estimated that as percentages of fresh fruit bunches (FFB), empty fruit bunches account for 21-22%, mesocarp fibre 12-16% and shells 5-7% of the biomass generated from the mills. Other biomass also generated from the mill include the decanter solids and effluent

treatment sludge, but in relatively smaller amounts. From the field, the amount of biomass generated during normal maintenance operations and during replanting from one hectare of oil palm is based on the typical formula as in Table 1. The tentative availability of oil palm biomass in 2014 is illustrated in Table 2. About 90 million tonnes of biomass being generated in 2014 and there are still huge portion of biomass that are not fully utilize yet.

Biomass	Activity	Availability (tonnes/hectare) (dry basis)
Oil Palm Fronts (OPF)	Pruning & Harvesting	12
	Replanting	14
Oil Palm Trunk (OPT)	Replanting	74.48

» Table 1. Basic calculation of availability of biomass generated from 1 hectare of oil palm planted area.

No.	Biomass	Amount (dry weight)
1.	OPF (from pruning activity)	47.06 million tonnes
	OPF (from replanting activity)	3.66 million tonnes
2.	OPT (based on 5% replanting rate)	19.37 million tonnes
3.	From the 434 palm oil mills operating at total capacity of 94.92 million tonnes of FFB	7.31 million tonnes
4.	Mesocarp fibres	7.69 million tonnes
5.	Palm kernel shells	5.22 million tonnes

» Table 2. Tentative Availability of Oil Palm Biomass in Malaysia (2014)

Malaysian government has introduced the National Biomass Strategy 2020, which promotes the critical importance and significance of having a portfolio approach for Malaysian biomass producers and the nation at large, to ensure there is a combination of short to medium-term investments into immediate opportunities and longer-term investment in higher value-added opportunities for all Malaysian biomass owners.

Meanwhile, under the MPOB's Strategic Plan (2010-2014), Biomass Utilization is one of the Action Plans, emphasizing on four main sectors, namely (a) Bio-fertilizer, (b) Renewable Energy, (c) Bio-compost & Bio-products, and (d) Bio-based Chemicals. The action plans of the strategy includes the intensive R&Ds up to pilot plant scale, smart partnering with universities and research institutes and collaboration with potential technology takers for pre-commercialization study.

When talking about Green Technology, it is by definition a continuously evolving group of methods and materials, from techniques for generating energy to non-toxic products. The ultimate goals of Green Technology are to be sustainable, source and waste reduction, innovative and economically viable. Examples of Green Technology subject areas are bio-energy, green building, green chemicals and environmental friendly processes.

Bio-fertilizer for example, in terms of Green Technology should go beyond conventional composting processes. Two main issues pertaining to the bio-fertilizer production are the quality and cost of production, in which energy, resources and wastes emission contribute to the low margin of profit. Green compost in the palm oil mill perspective should include the utilization of all the biomass generated from the mill (fibers, palm oil mill effluent (POME) sludge and boiler/incinerator ash), utilizing all the POME (zero discharge), excess hot air for ploughing and drying of compost and the electricity generated from biogas of POME as energy source.

In terms of bio-energy, the empty fruit bunch (EFB) can be converted into briquettes and bio-pellet. Again here for the economic feasibility, the producers should come from the palm oil miller (or at least as part of stakeholder) and should be integrated with the bio-gas from POME to supply the energy (the major cost of the production comes from the

drying process). In national level, there are a number of biomass power plants producing electricity from the biomass and this sector has gaining much momentum since the introduction of renewable energy feed-in-tariff system.

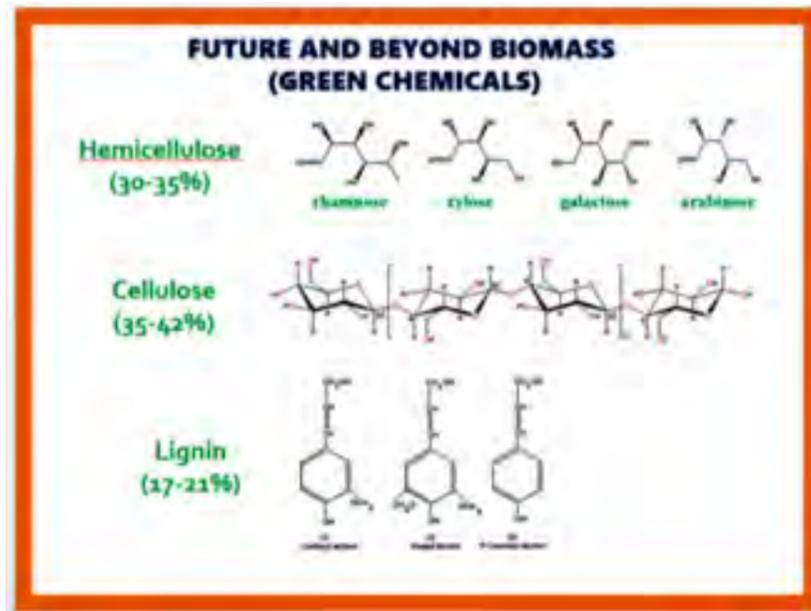
The utilization of oil palm biomass as the alternative material for the furniture products also contributes to the Green Technology of the wood based industry. National Timber Policy 2008 by Malaysian Timber Industry Board (MTIB) has targeted an increase up to RM53 billions of national income from timber based products export, from RM22.5 billions in 2008. The depleting of rubber and tropical woods has become a major issue to the industry, and the cost of the materials is increasing. Being a fibrous materials, although it contains some weaknesses in the inherent properties such as high moisture content, high parenchyma content and low

physical properties of fibers; the oil palm biomass, through R&D has been proven to be suitable for the production of many bio-composite products. The R&Ds have been focusing on improvising the conventional wood/timber processing machinery, to be able to process the oil palm biomass. Amongst the bio-composite products that have been successfully commercialized are the palm plywood, palm-wood, high/medium/low density fiberboard, particleboard and fibers reinforced plastic composite.

As highlighted in the NBS 2020, the biggest long-term opportunity for Malaysia remains in venturing into bio-based chemicals from the oil palm biomass. It forecasted that there will be a global market size of RM110-175 billion by 2020. With the plunging price of the fossil fuel in the current market, the future of bio-based chemical might not be that promising. But the global trend is moving towards green chemical or green process, in which the bio-based chemical products can be re-strategized. Green chemicals for the food and pharmaceutical industries are gaining momentum, for example the production of cellulose and the derivatives such as the carboxymethyl cellulose (CMC) and microcrystalline cellulose (MCC). Oil palm EFB contains about 70-80 % holocellulose; which comprises about of about 40-45 % and 30-35 % of cellulose and hemicellulose respectively; and 18-22 % lignin (Figure 1). Cellulose is a polymer of α -D-1,4-linked anhydrous glucose units, $(C_6H_{12}O_5)_n$, and basically, the individual cellulose molecules are linked together to form elementary microfibrils. MPOB has transferred the technology on producing the cellulose and the CMC and the company is currently producing the products in the capacity of 300 MT and 600 MT respectively per year at Kasawan Perindustrian Gebeng, Kuantan, Pahang.

Fractionation of lignocellulosic materials like oil palm biomass (via mechanical, physical, enzymatic or microbial processes) can produce various types of green chemicals. The cellulose for example, can be fractionate to produce alcohols, polyols, ketones and acids, hydroxyl-methyl furfural and levulinic acid.

Having discussed the various types of products that can be produced from oil palm biomass, the commercialization rate is rather low. Despite much of the technologies are



» Figure 1. The lignocellulosic chemicals in the oil palm biomass that potentially can be exploited for the production of green-chemical

available, there are still many challenges that hinder the commercialization. The challenges are:

- Constraints on mobilization of biomass, especially the OPT and OPF. The plantations are in view that all the biomass should be retained or recycled in the field to sustain the soil fertility,
- Difficulties in getting constant supply of biomass. There are various stakeholders of this industry, including the private estates, FELDA, FELCRA, RISDA, state agencies and independent smallholders; and each of the sectors have different policy and marketing strategy,
- Uncertainties of the technology, especially for the high value bio-based chemical production. Technology has to be carefully selected, economically viable, sustainable and tested in pilot or demonstration plant,
- Completing amongst sectors; bio-fertilizer, bio-composite; bio-fuel and bio-based chemicals.

The dynamic potentials of the oil palm biomass is understood and recognized, but there are still quite a long way to go. The national ambition to increase the revenue could possibly be materialized if more appropriate strategies and action plans taken into places. Some of the recommended action plans are as follows:

- Quantification of the actual biomass availability. Mapping and remote sensing on the distribution of mills, replanting area and matured oil palm plantation. To study the various costs of mobilizing the oil palm biomass – harvesting, collection, pre-processing, substitution and transportation to a downstream industry.
- Long term study of effects of mobilization of biomass (OPT and OPF) towards the soil fertility.

- Focus on advanced study of fertilizer replacement to the plantation. Encouragement of using compound or organic fertilizer produced from the POME sludge and EFB (value addition with effective microbes) as the source of organic fertilizer.

- Smart partnering on R&D for setting up pilot or demo plant to test the technology (especially for the high risk bio-based chemical production).

- The R&D also should be focused into green processes (such as enzymatic and microbial) and with low environmental impact.

- Facilitating the EPP 5 for biogas trapping from the POME, as the bio-energy will sustain the economics of all the projects on utilization of oil palm biomass.

- Formulation of the Oil Palm Biomass Policy or Roadmap; distribution of biomass amongst sectors (wood based, bio-fuel, bio-fertilizer or bio-based chemicals), either in National or state level.

- Biomass consortium or cluster/hub for an integrated industries (eg. Palm Oil Industrial Cluster).

- Certification and controls on the quality of products, in ensuring that the products compliance with International standard. Agencies like MPOB and SIRIM can play a big role in this.

As conclusions, there is a huge potential to fully utilize the oil palm biomass in Malaysia, and we are moving towards the bio-economy or green-economy. While business as usual, the industry can tap the low hanging fruits technology, to fully utilize the biomass such as the production of long-clean fibers/eco-mat, bio-pellets and briquettes, bio-fertilizer and bio-composites. The government has provided sufficient incentives to commercialize the oil palm biomass. There are promising initiatives being pursued by the government as well as the industry, in higher value areas such as the fine chemicals. MPOB will support any agenda towards the national biomass strategy/policy or roadmap; in creating incremental GNI, higher value industries and high value jobs from biomass to become a reality.

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ASIA PACIFIC





The quintessential image of a tropical paradise, the palm tree is much more significant than you might think. At the sight of a palm tree, most people imagine a sunny beach setting — but these sturdy plants can also grow in a variety of other environments. Here are 10 things you may not have known about these tropical beauties:

- 1 **There are over 2,500 species of palm trees.** The Arecaceae family of plants includes wonderfully diverse species found throughout the world, from the desert to the rainforest.
- 2 **Not all palm trees are “trees,” and not all plants called “palms” are truly palms.** These evergreen plants can grow in the form of shrubs, trees or long, woody vines called lianas. Plants like the yucca palm, Torbay palm (pictured right), sago palm and traveler’s palm are not part of the Arecaceae family.
- 3 **Palm trees have two different types of leaves: palmate and pinnate.** Palmate leaves, like hands, grow in a bunch at the end of a stem. Pinnate leaves are like feathers, growing all along either side of a stem.
- 4 **Palm trees are important religious symbols.** In the Bible, the people of Jerusalem greeted a triumphant Jesus just one week before his death and resurrection, a tradition now known and celebrated as Palm Sunday the week before Easter. Palms are mentioned dozens of times in both the Bible and the Quran. In Judaism, palms represent peace and plenty.



» The *Ceroxylon quindiuense*, or Quindio wax palm, towers over the Cocora Valley in Colombia.



- 5 **Lots of staples come from palm trees.** Coconuts are an obvious product of palm trees, but did you know that dates, betel nuts and acai fruit all come from palm trees as well? Palm oil, as its name indicates, also comes from the fruit of the oil palm tree.
- 6 **Palms grow best in USDA Zones 8-10.** You don’t have to live in Florida or California to use large palm trees in your landscaping.
- 7 **The tallest palm tree can grow up to 197 feet tall!** The Quindio wax palm, Colombia’s national tree, is the tallest-growing species of palm.
- 8 **The coco de mer palm tree has the largest seeds of any plant on Earth.** The seeds can be as large as 20 inches in diameter and as heavy as 66 pounds!
- 9 **Palm trees have a history with humans as old as the first societies.** Archeological finds have shown that the date palm was commonly used in Mesopotamian society, for food and other purposes. Romans gave palm branches as a symbol of triumph to the triumphant champions of games and wars.
- 10 **Have you ever heard of palm wine?** Yeah! Also called “kallu,” palm wine is a common alcoholic spirit in regions of Asia and Africa. It can be created from coconut palms, date palms, the Chilean wine palm, and other species.

Though many species of palms are sturdy and plentiful, as many as 100 species are endangered due to deforestation and unsustainable cultivation practices, such as for the heart of palm, which comes from a part of the tree that cannot be regrown. The rarest palm tree is the *Hyophorbe amaricaulis*; the only one left currently lives at the Botanic Gardens of Curepipe in Mauritius.

Source: www.mnn.com



In fact, the promise of celebrating the 100th line of VS installed keeps us reminded that the Company should continue to deliver great innovative products and improvements to reward our Customers... true to our company mandate, to deliver "Innovations that give you competitive advantage".

In line with our determination to launch you new innovative technology of good credibility and meeting your project & milling needs, we have been pushing hard to get our pioneer Taner R&D Palm Oil Mill going despite tantamount challenges ahead.

This self-finance massive R&D project seeks to explore possibility of building mill based on the theme - "Integrated Portable & Modular Palm Oil Mill c/w Automation System"... a mill that begins with end in mind. Taner seeks to quantify the sum effect of providing state-of-the-art technology designed in module basis and on maximum pre-fabricated form, tailored fabrication to fit optimally in container shipment, with mill spread on small footprint and lean power, and resulted in reduced lead time for site assembly and handling... all very rewarding to investor!

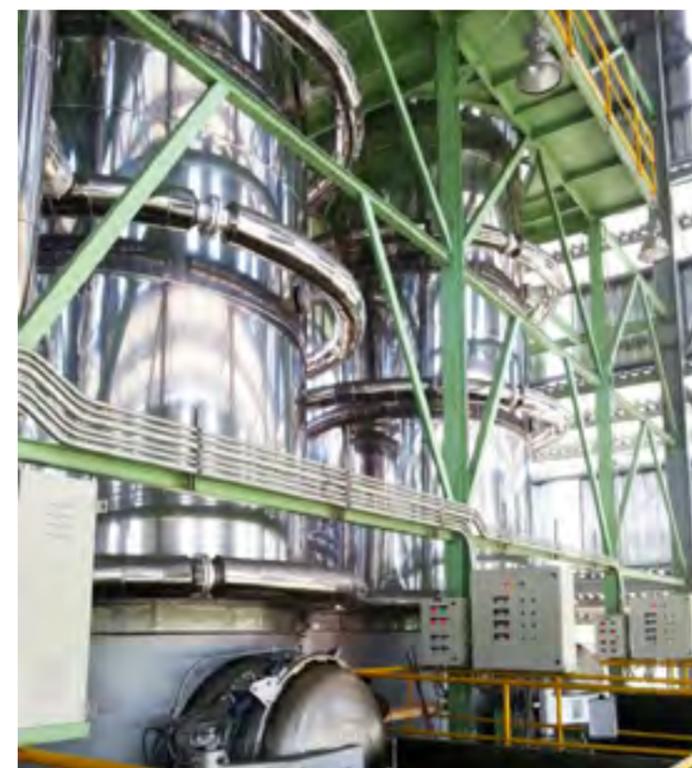


It has been a trying 3 years' time - from finding the right team mates, researching, developing, financing and meeting the ever stringent authority requirements that makes us more determined by now; that the only way to grow and keep us relevant amongst our Customer... is to keep going ahead and innovate!

WELCOME TO TANER!

It has been a trying year of Y2015 for CPO market, but our passion for the business and anticipation for a better tomorrow remains high on adrenalin. We continue to be motivated by our pool of loyal and strong faith Customers who believe only quality products and good accountability for performance deliverance will keep them going in good and bad times. When going gets tough, the Tough gets going!

Our core product, the global patented Taner Vertical Sterilizer (VS) system has been installed in 88 lines of sterilization processing line in palm oil mills located in Malaysia, Indonesia, Thailand, Colombia, Guatemala and Sierra Leone. Among which are 17 lines of mill modernization projects to convert conventional cages system to new Vertical Sterilizer station.



Taner's approach in technology innovations starts:

- From designing products that give you lean resources control (minimum handling from logistics to final applications, efficient energy, power and space requirements; attractive opex and capex).
- To empowering investor with economy of scale by producing standardize products on optimum capacity and performance; tapping into local resources during project management through easy installation guide and supervision.
- Now we built systems with end in mind through mass production approach to enhance quality control during production, enable better material selection to achieve a longer product lifespan, and maximize value-adding to finished goods.



www.taner.com.my
info@taner.com.my

A LIGHT MOMENT WITH MR. KP NG

FOUNDER OF eDESIGNPALM CONSULTANCY MALAYSIA



» Mr. KP Ng, 69 years old, a palm oil mill consultant who has deep interests in photography.

HISTORY & EXPERIENCE

I am a Palm Oil Mill Consultant, 69 years old, still enjoy working as a Professional Photographer travelling all over the world since 70s' to keep personal records of not less than 200 mills from Africa, India, Sri Lanka, Thailand, Cambodia, Myanmar, Malaysia, Indonesia, Central and South America. My collection of tens of thousands of Photographs & Videos are personal archives of mine to keep track of technical developments and various processing methods of palm oil mills ranging from 500kg/hr Nano Mills, 1~2 tons/hr Micro Mills, 10~15 tph Mini mills and 30~120 tph Conventional Mills all over the world.

I graduated from Singapore Polytechnic in the Year 1968 and have been with the palm oil milling industries in Malaysia and Indonesia since 1970. I started my career as a Consulting Engineer at the age of 60 in Indonesia providing unique designs for palm oil mills differing from conventional "Cut & Paste" practices. I have a Design Studio located in Medan, in partnership with Pak Suryadinata since the day of PT. Bangun Delima Indah in the 80s' together with 7 Indonesian Engineers and Drafters of various engineering disciplines as a complete in-house solutions provider.

Our company out-sourced not less than 15 local drafters to cover the whole range of old oil mill machinery with designs ranging from the 50s' to the ultra-modern 21st Century innovations. We had since commissioned 4 mills and up to November 2015, a total of 5 mills would be

completed. Together with 2 consultancy projects in Sulawesi and another 2 new contracts signed in Pekanbaru, with 2 more expected from Kalimantan, we shall hit a target of total 11 mills in the year of 2015. We have the capability to deliver a complete mill design within two and a half months. Our latest development is the patented "Horizontal Sterilizer with no Cages", also known as SWSTM or Static Walking SterilizerTM

PROJECT RESPONSIBILITIES

Starting in August 2015, our company is a site preparation of the Cut & Fill. We are one of the two 60tph palm oil mills awarded by PT. Bukit Berlian Group in Gorontalo, Northern Sulawesi. Travelling hours from Kuala Lumpur to Medan is 40 minutes, Medan continuing to Jakarta is 2 hours flight, followed by Jakarta to Makassar, the capital of Sulawesi in 3 hours, adding with another 1 hour flight to Gorontalo in the northern region of the island and ending up in reaching the site with an hour helicopter flight (instead of the normal 18 hours by undulating road to site). Travelling in total of 5 flights in a single day is not uncommon. Meandering in a speedboat through the most primitive rivers, or with another 20 hours road journey through the very virgin jungles are mundane duties assigned to us as a Consulting Engineer. At times, we do get to enjoy private jets to perform our duties in our Kalimantan work sites. I travel frequently between Malaysia and Indonesia and it doesn't matter where we stay from 5-stars hotel to run down wooden sheds, it doesn't affect our working performance at all.



» Mr. KP Ng used to travel by helicopter or private jet on his business trips. Travelling on several flights in a day is not uncommon for him.



» Mr. KP Ng and his colleagues travelling in a speed boat.



» One of the working sites of Mr. KP Ng and his colleagues in a wooden shelter.

INNOVATION IS OUR PRIORITY

We have transformed our innovation into actual application with both investment costs and maintenance costs in consideration. One of the best examples is the mill of PT. Tunas Baru Lampung PKS 4 in Palembang, Sumatra. It is a revolutionary way of constructing mill structures at 2.0 meter foundation above ground at a swampy area, 60tph. The construction of 60/90 tph palm oil mill at 200 meters from the river at PT. Sungai Bahar Pasifik Utama in Jambi, Sumatra is another successful creation from us. Moreover, we also provide the patented design of self-discharge sterilizers.

SIMPLE INVENTION, SIMPLE OPERATION

We have invented the SWSTM or Static Walking SterilizerTM. This is the patented design of our intellectual property on our "Horizontal Sterilizers without Cages".

This invention brings the whole palm oil industry back to the simplicity of the good old milling days using Horizontal Sterilizers, but now without any Cages.

This ingenious simple invention has been focused on:

- Losses on Sterilizer Condensate and Empty Fruit Bunches (EFB) are back to within the normal parameter of ~ 1.0% (to Sample).
- Simple in operation, maximizes reduction in processing cost.
- Simple in processing control, excellent improvement of oil quality.
- Elimination of many FFB pre-handling machines and EFB after processing machines, with unnecessary handling system.
- Design is applicable for both old and new mills.
- All old mills with any diameter of sterilizers can be converted into SWSTM system.
- Very low conversion kits and enormous returns in revenue.



1 PT. Tunas Baru Lampung PKS 4 in Palembang, Sumatra before construction

2 PT. Tunas Baru Lampung PKS 4 in Palembang, Sumatra after completion

3 eDesignPalm provide patented design on Self Discharge Sterilizers.

RETIREMENT

The dynamic of inspiration provides me a source of energy to transform many of my inventions into reality to serve the palm oil industries. Besides holding 4 patents already in actual practice for the mills, I have at least 8 more inventions to proceed/fulfill in my life so as to short-circuit the mill handling process in the field of Sterilization Station, Kernel Recovery Station and Clarification Station, in guarantee to achieve the best Quality of CPO and Kernel (PKO) and simultaneously optimizing the minimum loss of CPO and PK in a palm oil mill. This is a simple mill, soon to be built in the year of 2016/17. A new concept of this palm oil mill, built at 60% cost has been designed.



>> Some self-discharge sterilizers in the palm oil mill in Sumatra.

I would like to sincerely thank Pak Widarto, Founder of Sungai Budi Group (Bumi Waris) allowing his PT. Tunas Baru Lampung, Tbk to have this first unit in the world of the Static Walking Sterilizer™ or SWSTM successfully installed and in operation in his 8th Palm Oil Mill in Riau, Sumatra, Indonesia. As per my presentation in Palm Oil Sarawak Conference, Malaysia on 4-5 Sept 2015, I had reckoned and announced the SWSTM is Best Sterilizer Known, BSK. This BSK is dedicated to my beloved wife, Boey Swee Kham. I shall be 70 years old next January 2016. I love my job and if my brain is still energetic and creative, there is no room for me to retire.



>> Mr. KP Ng delivering his presentation in Palm Oil Sarawak Conference 2015.



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Congratulations

PT Tunas Baru Lampung PKS 8
Bandar Sei Kijang, Riau, Sumatra, Indonesia

Successful commissioning of 45 tph Palm Oil Mill
12 August 2015



Vital Breakthrough!!

**** Horizontal Sterilizers, without Cages ****

Oil Loss Condensate ~1.0%, Oil Loss EFB ~1.0%

SWS™ = Static Walking Sterilizer™

First One in the World, First One in the World

Designer: Ng Keng Phoy (Pak KP Ng)

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Modify all old mill Horizontal Sterilizers into **** Static Walking Sterilizer™**
My Patent opening to all Consultants, all Oil Millers and all Contractors
Advisory Services available by Appointment

Congratulations

PT. Sungai Bahar Pasifik Utama
Niaso, Jambi, Sumatra, Indonesia

Our Design is Unique



Successful Commissioning : 45tph Palm Oil Mill (08 June 2014)
Extension 60tph (06 August 2014) Extension 90tph (November 2015)



Presses on Floor



Self Discharge Sterilizers

PT. eDesignPalm Consultant

+62-812 6000 939 (Pak Suryadinata ST) +62-812 7836 1013 (Pak KP Ng)

Surya_dnt@yahoo.com Travel_Lonely@yahoo.com

Website: www.eDesignPalm.com

BIG BOOST FOR SMALL PLANTERS

MSPO CERTIFICATION ENABLES LOCAL SMALLHOLDERS TO ATTAIN SUSTAINABLE PALM OIL STATUS.

OVER 400,000 oil palm smallholders in Malaysia will finally get to see their estates certified as producers of sustainable palm oil under the Malaysian Sustainable Palm Oil (MSPO) certification standard initiated by the Government.

With an initial fund of RM50mil allocated for this purpose, many independent smallholders are more receptive towards getting the MSPO certification, compared with the stringent rules and costly auditing process imposed on them when trying to acquire Roundtable on Sustainable Palm Oil (RSPO) certification, which is the world's first palm oil certification standard.

"For independent smallholders with oil palm land size of 40 hectares and below, it is just too expensive to fork out the certification fee of RM10,000 to get the RSPO agents to audit their land.

"The stringent rules have also put off their interest to be RSPO-certified," says National Association of Smallholders (NASH) president Datuk Aliasak Ambia.

Unlike the organised smallholders under the Felda settlers scheme whose cost for RSPO certification is mostly supported by Felda, independent smallholders in the country lack the financial back-up to undergo RSPO auditing, he says.

"What more with the stringent RSPO auditing which often questions local smallholders on their crop yield,

and, agricultural and management practice which has resulted in many smallholders in Indonesia, Thailand and Malaysia rejecting the RSPO sustainability movement," says Aliasak.

However, independent smallholders in Malaysia are becoming more aware of the importance of getting their plantations and palm oil products to be certified sustainable in line with the increasing demand from the major markets, particularly in the European Union and the United States.

Indonesia, the world's largest palm oil producer, has also launched its own national standard – Indonesian Sustainable Palm Oil (ISPO) – which is made compulsory to all oil palm growers in the republic back in 2011.

Hence, there are now three sustainable palm oil standards in the world: the international-based RSPO, ISPO and MSPO which the world markets could rely on for sourcing sustainably-produced palm oil.

PROMOTION DRIVE

Aliasak tells StarBizWeek that it is paramount that the Government actively promote the MSPO for it to become a truly recognised palm oil sustainable standard in the world.

"RSPO certification maybe dictated by the Western market players' grouping, so it is most important for MSPO to be driven by oil palm growers.

"It is also important to highlight that Malaysian palm oil is of superior



Things are looking up: Smallholders from Kampung Chenderong Kelubi in Kampung Gajah, Perak, enjoy steady income from oil palm cultivation. With MSPO certification, smallholders in the country can now join the ranks of sustainable palm oil producers.

quality and sustainably-produced from plantation to the table of the consumers," says Aliasak.

If Malaysia can successfully position its crude palm oil (CPO) futures as the world's price benchmark for CPO, he believes that "we can also do the same for our MSPO standard even though it will not be an easy feat."

On the local front, an MSPO committee has recently been formed under the Plantation Industries and Commodities Ministry to look into certification matters.

Aliasak also hopes that MSPO certification for independent smallholders could be expedited within the next couple of months.

"I believe once the grant has been disbursed accordingly, the auditing process can be carried out almost immediately.

"Before the end of this year, at least a group of four to five independent smallholders will be able to qualify for MSPO certification."

Aliasak who oversees NASH, which represents over 400,000 smallholders in Malaysia, hopes to carry out several MSPO roadshows nationwide to alert smallholders on the latest development.

"NASH has done a similar move under the RSPO banner previously but it has proven unpopular because of the costly procedure.

"But I am positive this time round, with the grant allocated by the Government,

smallholders will support this new initiative," he says.

For now, NASH is waiting for the green light from the MSPO committee as well as the national palm oil custodian, the Malaysian Palm Oil Board, which is the driver of the MSPO certification, he adds.

To make MSPO certification works, Aliasak says it will be good to use smallholders' cooperatives for this initiative.

"There are 64 smallholders cooperatives nationwide. We plan to tap into their resources and pool the smallholders into groupings to make it easier for the auditing for MSPO certification to be carried out."

CERTIFIED PLAYERS

On the other hand, major estates in Malaysia dominated by big plantation companies such as Sime Darby Bhd, IOI Corp Bhd, Kuala Lumpur Kepong Bhd and United Plantations Bhd mostly have attained RSPO certification.

These private plantation companies see it best to attain the internationally recognised RSPO certification to gain better access to the EU and the US markets which in recent years have been demanding for sustainably-produced palm oil products.

Malaysia also has been recognised by the RSPO as one of the biggest producers of certified sustainable palm oil, producing 42% of the world's supply and accounting for 43% of CSPO growers worldwide.

Source: The Star Online

US\$1 MILLION PRIZE MONEY FOR **BEST HARVESTING MACHINERY INVENTION** IN OIL PALM INDUSTRY



Malaysian Palm Oil Board (MPOB) is offering USD1 million in prizes for the winners of an international competition related to oil palm industry.

Minister of Plantation, Industries and Commodities Datuk Amar Douglas Uggah Embas announced this during a seminar on increasing productivity in palm oil industry in Sarawak at RH Hotel here yesterday.

He said the objective of the competition was to attract individuals to come up with proposals on mechanising the palm oil industry.

"The prize is an encouragement for individuals to produce more efficient, sophisticated and acceptable machines to solve problems on harvesting," he said.

He stressed that harvesting was critical as plantations were short of workers at times.

He said participation to the competition was launched in June and would be closed in November.

"The move to raise the prize money to USD1 million for this

year's competition is to attract more participation and for the most innovative, efficient and sophisticated machine," he told reporters.

He said last year the prize offered was RM1 million, but none of the participants won.

The competition targets universities, research centres and creative individuals both domestically and internationally.

The competition is part of the ministry's continuing efforts to increase mechanisation level, especially in the area of harvesting.

About 400 industry players including smallholders in Sibu attended the seminar.

On a related matter, Uggah said the government had approved the setting up of the Malaysian Palm Oil Certification Council to manage and approve standards for the Malaysian Sustainable Palm Oil (MSPO) in line with what Indonesian was doing.

"The council wants the palm oil industry to practise sustainability," he said.

"We want smallholders to be certified. There is cost involved. To achieve the certification, the government has allocated RM53 million to support small holders to obtain MSPO."

He added that the requirement is stringent as all palm oil must be certified before they are sold to the international market.

"Within five years, certification for smallholders will be compulsory," he said, pointing out that MPOB had certified 25,300 hectares nationwide.

On stolen palm fruits, he said through Ops Kenyalang from January till June, MPOB had issued show-cause letters to 77 licensees.

He said a total of 12 licences were cancelled, one suspended while 51 were given warning.

"We will not hesitate to take necessary action including cancelling the licence if found purchasing stolen palm oil fruits," he said, expressing hope that the problem would be resolved by the end of the year.

On the seminar, he said it was aimed at ensuring smallholders gain good returns.

Later, he presented 'Amalan Pertanian Baik Pekebun Kecil Sawit Persendirian' certificates to the participants.

Also present was MPOB director general Datuk Dr Choo Yuen May.

As part of the programme, Uggah visited Bintulu Lumber Development Sdn Bhd (BLD) at Igan Palm Oil Mill.

BLD is a Sarawak-based palm oil company.

Source: The Borneo Post



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CMT TO HOST 3RD PALM OIL AFRICA IN SEPTEMBER AND 7TH PALM OIL ASIA IN OCTOBER

CMT will host two major palm oil events – 3rd Africa Palm Oil (Rubber & Cocoa) on 21-23 Sept, 2015 in Accra, Ghana and 7th Palm Oil & Rubber Summit on 19-21 Oct, 2015, in Krabi, Thailand. While the Africa edition will explore the renewed investment sentiment – across palm oil, rubber and cocoa businesses, the Asia edition will examine the new era of full supply chain traceability and challenges for the palm oil industry in Asia plus rubber industry's volatile prices.



Sponsored and supported by Olam, the Accra summit will be graced by the Honorable Minister Fiifi Kwetey, Minister of Agriculture, Ministry of Food & Agriculture Ghana, with an opening address outlining the 'Masterplan for Ghana's Agriculture Industry including New Regulations and Policies for Investment'.

Panel of speakers from major companies and organisations, including: SIAT, Olam International Ltd., Olam Gabon, Oil Palm Development Association Ghana, Tupin Agro, Solidaridad West Africa, Ministry of Agriculture & Rural Development, Vince Golden Oil Holdings, Rubber Research Institute of Nigeria, Hardman & Co., Institute of Agricultural Research for the Development (IRAD), Africa Renewables and PalmElit SAS are joining in to share their insights on palm, cocoa and rubber industry in Africa. The highlight at this Accra summit is an optional site visit to GOPDC – an integrated agro-industrial company that is a subsidiary of SIAT Group on day 3 of the event.

On the other hand, 7th Palm Oil & Rubber Summit in Krabi will field prominent speakers such as Siegfried Falk, Co-Editor of OIL WORLD, who will share his views on 'Diverging influences from oilseeds on palm oil - implications for supply, demand and prices in 2015/16' and Dr. Simon Lord, Executive VP – Group Sustainability & Quality Mgt at

Sime Darby Holdings Berhad giving latest updates on their NBPOL merger. For the rubber focused track, Dr. Paitoon Wongsasuthikul, Deputy Secretary General of Thai Rubber Association (TRA) will share details on Thai government's initiatives to shore up rubber prices.

Invited speakers for the palm oil track hail from palm oil majors like Olam International Ltd., Felda Global Venture Plantation, Cargill Tropical Palm Holdings, Technical Committee of High Carbon Stock (HCS) Study, Pertamina, Malaysian Palm Oil Board, Applied Agricultural Resources and International Plant Nutrition Institute (IPNI). Similarly, senior executives from New Forests Asia, Terragro, Japan Cambodia Tropical Plantation Partners, Olam International Limited, Greenyield, Malaysian Rubber Board, Aspinwall and Applied Agricultural Resources are sharing rubber industry market insights.

Delegates of the Krabi summit can also look forward to 2 site visits: one to Univanich Oil Palm Research Centre in Plaipraya District of Krabi and another to Rubber Plantation and Factory Site in Ao Leuk District of Krabi both scheduled on the second day of the event.

Contact Ms. Hafizah at +65 6346 9218 for any questions related to both the events

MALAYSIAN SUSTAINABLE PALM OIL (MSPO)

The Malaysian Sustainable Palm Oil (MSPO) certification scheme is applicable to all organizations throughout the value chain palm oil production comprising plantation, small holders, miller, refineries, kernel crushing plant, producers of semi-finished and finished palm oil based products.

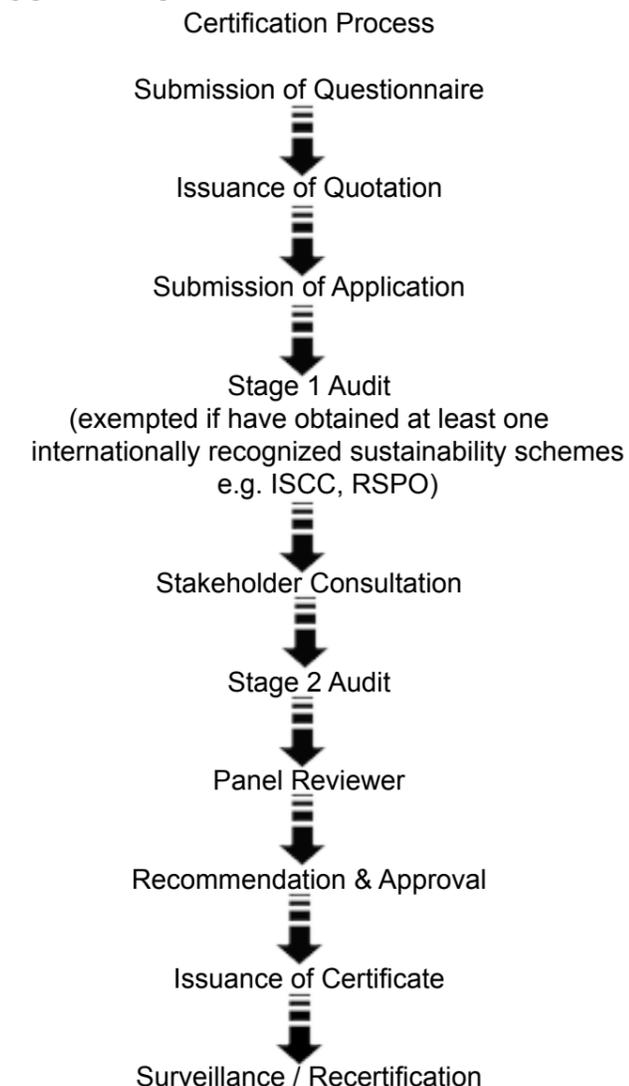
The Benefits of Certification

- ✓ Broaden market access with the increasing demand for sustainable palm oil.
- ✓ Enhances organization's image as it is seen as socially responsible.
- ✓ Facilitates access to the growing "green market".

Why SIRIM QAS International?

Our experience in the palm oil sector is second to none. Over the years, we have been the leading certification body for the provision of various management system certification services to this sector. More than 200 palm oil mills have been certified by SIRIM QAS International to ISO 9001, ISO 14001 and OHSAS 18001. We have also certified many oil palm plantations to the same standards. Our extensive experience in providing auditing and certification services in support of sustainable palm oil production is also a point in our favour. With all of our experience in this sector, SIRIM QAS International actively contributed towards the development of the MS 2530 series of Malaysian Standards and the MSPO Certification Systems documentation by the Malaysian Palm Oil Board (MPOB). SIRIM QAS International has also been approved by MPOB as an MSPO Certification Body.

YOUR NEXT STEP>



For more information, contact us at:

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Selangor Darul Ehsan, Malaysia.



THE INDONESIA'S PALM OIL INDUSTRY HAS ENTERED A NEW PHASE



Jakarta, 28 August 2015 – The largest palm oil exhibition in Indonesia will be held 03 – 05 November 2015. The exhibition will take place at the Santika Premiere Dyandra Hotel & Convention Center, Medan.

As the homeland of Indonesia's palm oil producers, Palmex Indonesia 2015 will take place in Medan, North Sumatra. This year, ±100 exhibitors originating from more than 12 countries will participate in PALMEX INDONESIA 2015 to show the newest trend and technologies in palm oil production.

A selection of domestic and foreign firms such as PT. Heriwel Bintang Sejahtera, PT. Smart Tbk, PT. Socfin Indonesia, PT. SLS Bearindo, PT. Traglopindo Utama are set to promote new and alternative solution for oil palm cultivation, including environmentally friendly approaches, and technologies to improved

efficiency and productivity. The represented brand includes Brevini, Karcher, Bosch, WM Welding, Krisbow, Nilfisk, Pepperl + Fuchs, Takuma Boiler, Hyundai Heavy Industries, Fuji Electrics, LS, LG, GE, and flowserve.

Going into its 7th edition, PALMEX INDONESIA has grown at a rapid rate, attracting interest of firms from across the region. With larger participation, PALMEX INDONESIA is looking to secure a record USD 5 Million worth of transaction at the event.

One of the programme that will be held in conjunction with PALMEX INDONESIA 2015 is "Indonesia International Palm Oil Conference (IPOC) 2015" with theme "Driving Indonesia's Palm Oil Industry Into The Next Frontier". Domestic and international key figures from the industry will participate in this conference.

ABOUT FIREWORKS

PT Fireworks Indonesia is a part of Fireworks Trade Media Group, a big conglomerate of media company which has businesses ranging from directories and magazines to exhibitions and conferences with several representative offices in Indonesia, Malaysia, Thailand, Singapore, China, Taiwan, and Vietnam. Being supported by the creative, youthful, and experienced team, Fireworks is established to enlighten the local industry exhibition by showing various of fresh ideas in each of its exhibition.

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3RD OLEOCHEMICAL OUTLOOK 2015



The 3rd Oleochemicals Outlook was hosted by Centre for Management Technology on the 26-27 August 2015 at the Westin Resort Nusa Dua, Bali, Indonesia. This event brought together prominent speakers and attendees from the Oleochemicals value chain as they shared the insights on market trends, technology innovations and projects updates in a high level business-networking platform. It was a successfully organized event with excellent informative presentations and up to date knowledge exchange of latest developments in the Oleochemicals industry.



» Togar Sitanggang- Indonesian Association of Biofuel Producers (APROBI)



1



2



3



4



5

- 1 Dato' Mohd Emir Mavani Abdullah - Felda Global Ventures Holdings Berhad
- 2 Delegates at 3rd Oleochemicals events in The Westin Resort Nusa Dua, Bali
- 3 Panel Of speakers

- 4 Media Partner Magazines displayed at the event
- 5 Networking Reception Cocktail

PRIME MINISTER OFFICIATES REGION'S LARGEST GREEN TECHNOLOGY PLATFORM

IGEM 2015 Powers the Green Economy through Cross-Country Partnerships



» Y.A.B. Dato' Sri Mohd. Najib bin Tun Haji Abdul Razak, Prime Minister of Malaysia, delivering the key note address at the official opening ceremony of IGEM 2015.

11 September 2015, Kuala Lumpur – The 6th International Greentech & Eco Products Exhibition and Conference Malaysia (IGEM) was officiated by the Prime Minister, Y.A.B. Dato' Sri Mohd Najib bin Tun Haji Abdul Razak, at the Kuala Lumpur Convention Centre today. In line with the Eleventh Malaysia Plan's Green Growth thrust, IGEM, the region's largest green technology business and innovation platform, brings together local and international players to exchange and disseminate innovation, expertise and knowledge while encouraging cross-country business opportunities.

IGEM 2015 is organised by the Ministry of Energy, Green Technology

and Water (KeTTHA), in cooperation with the Malaysian Green Technology Corporation (GreenTech Malaysia) and supported by strategic partners Malaysian Investment Development Authority (MIDA) and Malaysian Exhibition Services (MES) Sdn. Bhd. Themed "Powering the Green Economy", IGEM 2015 is segmented into five key sectors; Green Energy, Green Transport, Green Building, Solid Waste Technology & Management and Clean Water Technology & Management. The event has attracted the participation of 350 exhibitors from 20 countries spread across 450 booths, showcasing cutting-edge technologies on renewable energy and energy efficiency, amongst others.

Speaking at the opening ceremony, Y.A.B. Dato' Sri Mohd Najib bin Tun Haji Abdul Razak said, "Malaysia's transition to a green economy has the potential to create enhanced trade opportunities by opening new export markets for environmental goods and services, increasing trade in products certified for sustainability and promoting certification-related services and greening international supply chains."

"With Malaysia assuming the chairmanship of ASEAN 2015, economic integration will be at the forefront in the agenda of the ASEAN meetings. It is time that we all make



» Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of Energy, Green Technology and Water delivering the welcome speech at the official opening ceremony of the 6th annual International Greentech & Eco Products Exhibition & Conference Malaysia (IGEM) 2015.

full use of the ASEAN platform to expand green businesses as the market potential is colossal," he added.

The Honourable Prime Minister also announced that, in line with the green growth strategy under the Eleventh Malaysia Plan, the Ministry of Energy, Green Technology and Water has embarked on a pilot project to transform Langkawi into Malaysia's first 'low carbon island'. As such, a feasibility study on Low Carbon Langkawi 2030 is being undertaken with Jeju Island in South Korea being used as a comparative benchmark.

Since the inaugural IGEM in 2010, the event has recorded an approximate RM6 billion in terms of green business leads and has spurred the growth of the green technology sector within Malaysia, with targets for this year set at RM1.2 billion.

Some of the key exhibitors participating at IGEM 2015 include country pavilions from Korea, Japan, Spain, Singapore, the EU-Malaysia Chamber of Commerce and Industry,

Japan External Trade Organisation, Tanaka Electric Laboratory Co Ltd (Japan), Recycle Energy Co. Ltd / CFP Corporation (Singapore), First Solar Malaysia and TOSHIBA TEC Malaysia as well as local companies such as Tenaga Nasional Berhad, Malaysia Solar Resources, PROTON and Weimar Enterprise.

In line with IGEM being one of the region's key platform to promote cross-country partnerships, the Government of Malaysia and the Royal Government of Cambodia, which were represented by Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of KeTTHA and His Excellency Dr. Say Samal, Minister of Environment, Royal Kingdom of Cambodia respectively, exchanged documents signifying the strengthening and further co-operation in the field of green technology between the two countries.

Other MoUs that were signed included Prasarana Malaysia Berhad and CMS Consortium Sdn. Bhd., for the expansion of COMOS EV Car

Sharing Programme, as well as a collaboration between Pertubuhan Peladang Kawasan (PPK) Pendang Selatan, Kedah and Free-the-Seed Sdn. Bhd., to convert biomass from paddy husks into high value biodegradable packaging products which will consequently increase the income of the estimated 1,300 farmers in the region of Kedah State. This is in line with the Government's holistic waste management system initiative which will maximise the potential for the production of High Quality Green Products from various waste sources.

Speaking about the partnerships, Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili said, "We are pleased with the numerous collaborations established today in line with the Ministry's efforts to further pursue growth in the green technology sector. It also reaffirmed the role of IGEM 2015 in encouraging cooperation as well as trade and business in green technology among the member countries."

Apart from the exhibition, IGEM

2015 also features several key sub-events including the Green Financing Forum, with the theme "Driving Green Investment: Unleashing Public and Private Finance for Growth". The Green Financing Forum was jointly organised by GreenTech Malaysia and IBFIM. Apart from that, ASEAN's premier sustainable mobility conference, 3rd E-Mobilia World, was jointly organised by GreenTech Malaysia and Koelnmesse.

During the four-day event, there were also other conferences and seminar such as the Renewable Energy Seminar organised by the Swedish Embassy; Conference on Energy-Efficient Technologies in Malaysia organised by ASEAN's Centre of Energy as well as Symposium on Green Building Solutions and Sustainable Construction jointly organised by the European-Malaysian Chamber of Commerce and Industry (EUMCCI), the Malaysian-German Chamber of Commerce and Industry (MGCC), the British-Malaysian Chamber of Commerce and Industry and AICEP Portugal Global.

Throughout IGEM, participants

were also able to network with industry leaders, policy makers and Government officials at the various business matching platforms including MATRADE International Business Matching, MIDA Business Consultation, MIGHT's Investor Connect Workshop and One-to-one Bizmatch Programme, among others.

Given IGEM's successful track record over these six years, plans for the 7th edition of IGEM is already underway. The forthcoming IGEM is slated to be held from 5th to 8th October 2016 at Kuala Lumpur Convention Centre.

About the Ministry of Energy, Green Technology and Water
The Ministry of Energy, Green Technology and Water (MEGTW) (Kementerian Tenaga, Teknologi Hijau dan Air – KeTTHA) was established on 9 April 2009. KeTTHA is responsible for formulating policies, establishing legal frameworks and regulating development project in the Energy, Green Technology and Water sectors which are under the purview of the Ministry.

About GreenTech Malaysia
Malaysian Green Technology Corporation or GreenTech Malaysia is an organisation under the purview of the Ministry of Energy, Green Technology and Water Malaysia (KeTTHA), charged in the development and promotion of green technology as a strategic engine for socio-economic growth in Malaysia.

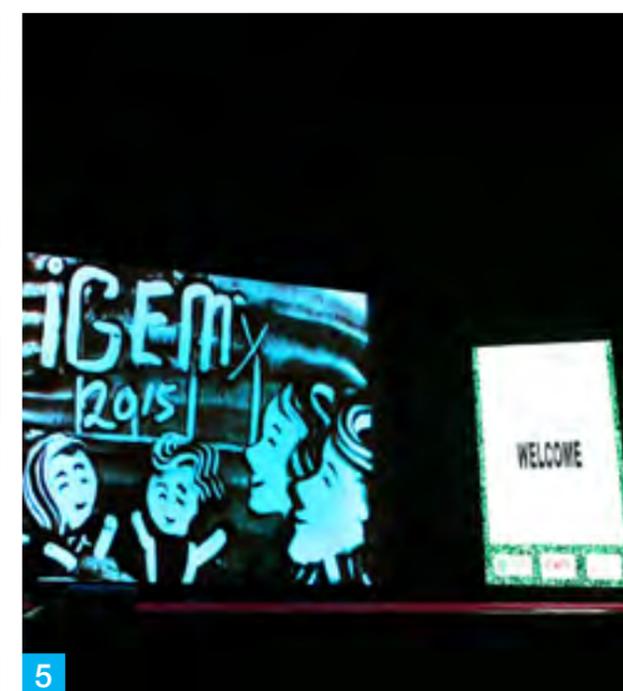
For more information about IGEM, log on to www.igem.my.

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Mobile: 012 - 2695759

GreenTech Malaysia
Syuhida Silmi
Email: syuhida@greentechmalaysia.my
Mobile: 011-11841165



» (L-R) Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of Energy, Green Technology and Water; Y.A.B. Dato' Sri Mohd. Najib bin Tun Haji Abdul Razak, Prime Minister of Malaysia and Y.Bhg. Datuk Loo Took Gee, Secretary-General of Energy, Green Technology and Water during the launching of IGEM 2015.



1 Memorandum of Understanding exchange between Pertubuhan Peladang Kawasan (PPK), Pendang Selantan, Kedah and Free the Seed Sdn. Bhd (L-R) Mohd. Nasri bin Lateh, Pertubuhan Peladang Kawasan (PPK), Pendang Selantan, Kedah; Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of Energy, Green Technology and Water; Y.A.B. Dato' Sri Mohd. Najib bin Tun Haji Abdul Razak, Prime Minister of Malaysia; Y.Bhg. Datuk Loo Took Gee, Secretary-General of Energy, Green Technology and Water; Tan Sri Dato' Seri Dr. Salleh bin Mohd. Noor, Vice Chairman of Free the Seed Sdn. Bhd.

2 At the press conference following the official opening ceremony of IGEM 2015 (L-R) Ir. Ahmad Hadri Haris, Chief Executive Officer, Malaysian Green Technology Corporation; Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of Energy, Green Technology and Water; Y.Bhg. Datuk Loo Took Gee, Secretary-General of Energy, Green Technology and Water.

3 At the press conference following the official opening ceremony of IGEM 2015 (L-R) Ir. Ahmad Hadri Haris, Chief Executive Officer, Malaysian Green Technology Corporation; Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of Energy, Green Technology and Water; Y.Bhg. Datuk Loo Took Gee, Secretary-General of Energy, Green Technology and Water.

4 Memorandum of Understanding exchange between the Government of Malaysia and the Royal Government of Cambodia (L-R) H.E. Norodom Arunrasmy, Ambassador of Cambodia to Malaysia; H.E. Dr. Say Samal, Minister of Environment, Royal Kingdom of Cambodia; Y.A.B. Dato' Sri Mohd. Najib bin Tun Haji Abdul Razak, Prime Minister of Malaysia; Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of Energy, Green Technology and Water; Y.Bhg. Datuk Loo Took Gee, Secretary-General of Energy, Green Technology and Water.

5 Sand art representation of IGEM at the official opening ceremony.

THAILAND'S LARGEST PALM OIL EXHIBITION ENDS ON HIGH NOTE!



The 5th edition of PALMEX Thailand ends on a high note attracting more than 3,000 visitors and more than 80 exhibiting brands during the 2-day event.

More than USD 30 Million of potential business transactions were also generated during the event. This year event sees an increase in more than 30% exhibitors and more than 25% increase in trade visitors signifying the success of this event which had been running for 5 years and is currently one of Asia's most successful palm oil exhibition!

Co-located with the expo is the 5th edition of the Asia Palm Oil Conference (APOC) 2015 which had also attracted more than 100 international delegates discussing the current state and the future of the Thai Palm Oil industry featuring speakers who are renowned palm oil experts from Thailand, Malaysia, Indonesia and Europe.

The next edition of PALMEX Thailand 2016 is still taking place at Surat Thani, the heart of Thailand's palm oil industry. Slated to be held on 18-19 August 2016 at Co-Op Exhibition Centre, the expo space is expanded by more than 50% and now covers more than 6000sqm and outdoor exhibitors are also provided outdoor space for huge machineries.

ABOUT PALMEX THAILAND 2016

PALMEX Thailand 2016 is the only specialized Palm Oil event in Thailand that brings together an international

congregation of both upstream and downstream palm oil companies and also its supporting industries gathered in Surat Thani, Thailand to showcase the latest developments in the palm oil industry.

Thailand, currently ranked #3 in the world for CPO is a potential and viable market for palm oil technology companies as the industry is currently honing new palm oil technologies and equipment to help spur its production further!

Fireworks Trade Media Group which is the world's largest organizer for Palm oil events such as PALMEX Indonesia, PALMEX Malaysia and PALMEX Latin America is the organizer of this event. The event is hosted by the Thai Oil Palm & Palm Oil Association and supported by Thai Palm Oil Refinery Association, Thai Palm Oil Crushing Mill Association, Asia Palm Oil Technology Association and Thai Biodiesel Producer Association.

Currently, more than 30% show space have already been reserved and more international palm oil machinery and technology brands from around the world have also expressed their interest in this event!

For more information about PALMEX Thailand 2016 or Asia Palm Oil Conference (APOC) 2016 please call us at: (+66) 2513-1418 or email us at: thai@asiafireworks.com

palm oil world 2016

Venue :

KUALA LUMPUR CONVENTION CENTRE (KLCC)

Date:

7th-9th September 2016



"Malaysia's Most Advanced Palm Oil Technology in the World!"

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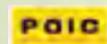
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ASIA PALM OIL



PALM OIL INDUSTRY AND TECHNOLOGY NEWS



» Launching of the Malaysia Biomass Industries Review 2015/2016 by YB Dato' Mah Siew Keong, witnessed by Dato' Leong Kin Mun, President of MBIC, Pn. Rusila, Chairperson of Editorial Committee and Mr. Kester Chin, Deputy President of MBIC.

LAUNCHING OF THE MALAYSIA BIOMASS INDUSTRIES REVIEW 2015/2016

– RM4BILLION BIOMASS PROJECTS READY TO TAKE OFF

KUALA LUMPUR – The **Malaysia Biomass Industries Confederation (MBIC)** has launched the **Malaysia Biomass Industries Review 2015/2016** at its Corporate Dinner event on 30 July 2015 at Concorde Hotel Kuala Lumpur. This event was launched by YB Dato' Mah Siew Keong, Minister in the Prime Minister's Department and attended by more than 300 biomass stakeholders both public and private sectors including high-level and senior management representatives from the Government such as Ministry of Water, Energy and Green Technology (KeTTHA), Malaysia External Trade Development Corporation (MATRADE), Malaysian Investment Development Authority (MIDA), Sustainable Energy Development

Authority (SEDA) and Malaysian Timber Industry Board (MTIB), among others.

The Review gives an overview of the Malaysian biomass industries focusing on 4 types of major feedstock available namely, oil palm biomass, woody biomass, rice biomass and municipal solid waste (MSW). It also dissects the utilizations which are divided into 4 main sub-sectors which are bio-agriculture, bio-energy, eco-products and bio-chemicals with more than 25 value-added innovations identified and presented in an easy-to-read format. Other useful contents of this 124-page publication include the Snapshot of Biomass Who's Who in Malaysia and the information on

financing option for the biomass industries in Malaysia.

Dato' Leong Kin Mun, the President of MBIC revealed that Malaysian biomass SMEs are exporting their products and services with the value of at least **RM4 billion** and **4 Malaysian biomass companies** who are MBIC members, are currently preparing for **IPO** in the near future. The Malaysia biomass industries have been interacting with various foreign entities in 6 key areas including **funding, technology transfer, market research, research & development and commercialization, foreign direct investment and import-export of biomass products & services**. There are strong interests from various foreign entities inclusive



» Launching of the Malaysia Biomass Industries Review 2015/2016 by YB Dato' Mah Siew Keong, witnessed by Dato' Leong Kin Mun, President of MBIC, Pn. Rusila, Chairperson of Editorial Committee and Mr. Kester Chin, Deputy President of MBIC.



» Mr. Chang Khong Keong, CEO of CHE Group Berhad receiving the Global Export Excellence Award from YB Dato' Mah Siew Keong, witnessed by MBIC President, Dato' Leong Kin Mun and MBIC Advisor, Tan Sri Dato' Seri Megat Najmuddin Khas.

of multinational corporations (MNCs), technology providers, venture capitalists, international donors, biomass users/traders/investors are keen on the above mentioned areas.

Dato' Leong also commended the Government for supporting the biomass industry via various incentives, grants and soft-loan schemes. MBIC also presented the Malaysia Biomass Industries Recognition Awards to

two biomass companies at the event. Mr. Chang Khong Keong, the Chief Executive Officer of CHE Group Bhd. receives the Global Export Excellence Award for their rapid business growth in renewable energy engineering services in Vietnam, Cambodia and The Philippines with projects valued at USD1.0 billion taking off in 2016. The other award recipient, Mr. Danny Ng, Managing Director of MTS Fibromat Sdn. Bhd. receives the Entrepreneurial

Excellence Award for the high-value of biomass utilization, providing total bioengineering solutions in the field of erosion control, slope protection and river bank rehabilitation.

Those who are interested to get a copy of this limited edition publication may contact MBIC at 03-88848922 or e-mail info@biomass.org.my.

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Fax: (+6221) 4290-0191
Email: info@fireworksbi.com

Palm Oil Events List 2015



PALMEX Indonesia 2015

date : 3rd-5th November 2015

venue : Santika Premiere Dyandra, Hotel & Convention,
Medan Indonesia

web : www.palmoilexpo.com

email : info@asiafireworks.com



PALMEX Latin America 2016

date : 27th-28th July 2016

venue : Hotel Wyndham Garden Villavicencio, Restrepo,
Meta, Colombia

web : www.palmoilcolombia.com

email : colombia@fireworkssa.com



Palm Oil World 2016

date : 7th-9th Sept 2016

venue : Kuala Lumpur Convention Centre (KLCC)

web : www.asiapalmoil.com

email : my@asiafireworks.com



PALMEX Thailand 2016

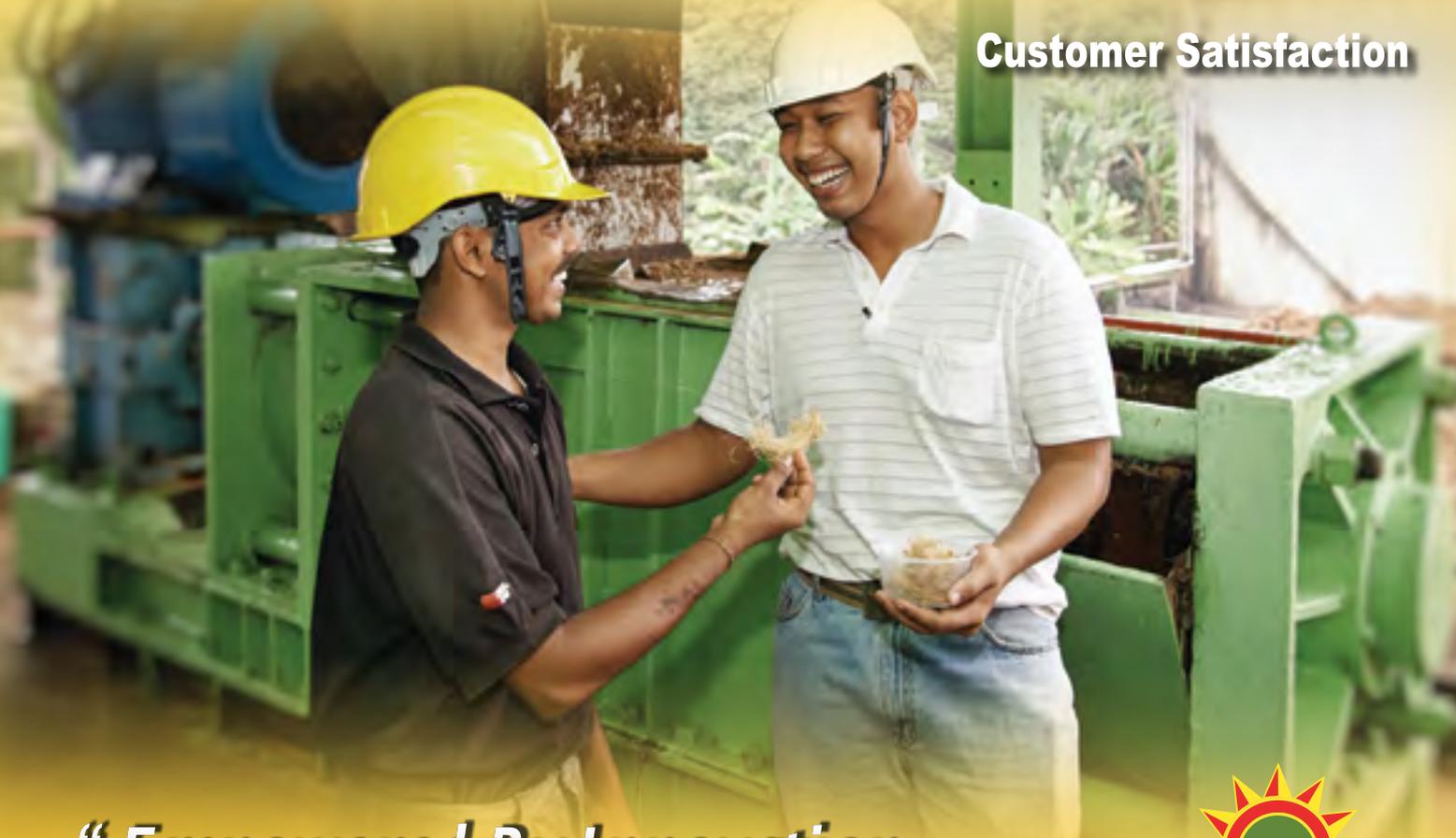
date : 18th-19th August 2016

venue : CO-OP Exhibition Centre, Surat Thani, Thailand

web : www.thaipalmoil.com

email : thai@asiafireworks.com





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KH-77
Heavy Duty Empty Fruit Bunch Shredder



KH-7
Heavy Duty FFB60/Splitter



KH-7.60
Double Deck Bunch Crusher



KH-12
Hard Bunch Separator



YTH-8.15S
Automated Seed Pressing Machine



YTH-9.15S
Automated Seed Pressing Machine



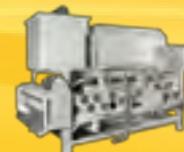
YTH-7.40
Hydraulic Control Crude Oil Filter Press



YTH-7.100
Heavy Duty Hammermill / Pulverizer



KSP 413
Screw Press Desludging And Dewatering Machine



YH-1500L
Rotary Drum Dehydration Belt Filter Press

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Website : www.yklgroup.com.my



40yrs experience
in palm oil industry