



**FOR IMMEDIATE RELEASE**

## **Wealth Creation through Bamboo Renewable Power and Biochar**

August 17,2020 – Kedah Darul Aman, Malaysia: For the first time in our history, a new bamboo biomass Renewable Energy Power Plant will be built in Gurun, Kedah by a new strategic partnership company known as Pakar B2E Sdn Bhd. The partners in the venture will comprise of Tex Cycle Technology (M) Berhad (“Tex Cycle”), Pakar Go Green Sdn Bhd (“PGG”) and KLPK Niaga Sdn Bhd (“KLPK”). Through a Shareholders’ Agreement, the joint venture company will be led by TexCycle, a well-known waste management company based in Selangor.

Pakar B2E Sdn Bhd equity sharing are as follows:

<b>Name</b>	<b>Number of Shares</b>	<b>Class of Shares</b>	<b>Value of Shares</b>	<b>%</b>
Tex Cycle	600,000	Ordinary Shares	RM600,000.00	60
PGG	300,000	Ordinary Shares	RM300,000.00	30
KLPK	100,000	Ordinary Shares	RM100,000.00	10

Pakar B2E Sdn Bhd (“PB2E”) will be represented by well experienced team:

Prof Azni Idris	Executive Chairman
Gary Dass	Chief Executive Officer & Director
Geraldine Hii	Chief Financial Officer & Director
Ho Siew Choong	Director
’Atiyyah Ameenah	Director
Azizi	Director
Ariffin	Director

This joint venture seeks to install and operate a 4-megawatt renewable electrical energy plant using bamboo biomass as its feedstock. PB2E has secured the green light through the Feed-in Tariff (“FiT”) approval dated 2 July 2020 from Sustainable Energy Development Authority Malaysia (“SEDA”) on 9 July 2020. Bamboo will be sourced locally from nearby plantations and



supported by newly developed 1000 hectares of future bamboo farm initiated by KLPK in tandem with the current plan under the YAB Menteri Besar of Kedah.

The details of the FiT approval are as below:

Name of Feed-in Approval Holder	:	PAKAR B2E SDN. BHD.
Location of the Renewable Energy Power Plant ("REEP")	:	632 Lot PT 632 Jalan Jeniang North-South Expressway Kawasan Perindustrian Gurun 08300 Kuala Muda Kedah Darul Aman
Renewable sources	:	Biomass
Distribution licensee	:	Tenaga Nasional Berhad
Installed capacity	:	4.0 MW
Scheduled FiT Commencement Date (FiTCD)	:	6 May 2023
Effective period (years commencing from the FiT Commencement Date)	:	21 years
FiT rate	:	RM0.3784/kWh

The PB2E management team is ambitious and working tirelessly to meet a set of internal timelines ahead of the Scheduled FiTCD by SEDA as follows:

No.	Milestone	Milestone Due Date
1.	Registration of Renewable Energy Power Purchase Agreement with SEDA & Suruhanjaya Tenaga Public License (Provisional)	31 December 2020
2.	Financing Agreement (s)	31 October 2020
3.	First Payment to EPC Contractor	30 March 2021
4.	Initial Operation Date	6 March 2022
5.	FiT Commencement Date	6 May 2022



PB2E will possess a great synergy amongst the partners, crucial in this new venture and each one has defined scope to make the project a great success, the roles are outline below:

- i. Tex Cycle shall identify, provide and evaluate suitable technology required for the Project including plant operational experience, handling of accounts, and financial matters.
- ii. PGG being experts in green products research and marketing shall assist in promoting, marketing, identifying and securing buyer(s) for the by-products of the Project.
- iii. KLPK being the Kedah state plantation arm shall identify, secure and facilitate the relevant agreement with regards to land and shall assist the Company to liaise with the relevant authorities on approvals, permits plus licenses. KLPK shall also explore and secure bamboo plantation as a future biomass source for the Project in the long term subject to a comprehensive feasibility study undertaken.

PB2E business will generate income from the following sources: -

- Renewable electricity sales
- By-product sales (e.g. Biochar)

## **Significant Impacts of this Project on the Rural Community and Kedah State**

### **1. New employment for the villagers for bamboo supply chain.**

The northern corridor of Malaysia, in particular Kedah State, is truly blessed with the abundance of untapped bamboo biomass. PB2E has chosen bamboo biomass as the raw material to produce power, knowing that bamboo is one of the most sustainable sources to be used as energy crop. Bamboo is known to grow up to 35 metres tall with average 100 millimeters in diameter. At a global scenario, bamboo is one of the fastest growing plants in the world. Due to the fast growth, quick maturity (within three years) and wood-like nature, bamboo finds excellent use for housing and scaffolding. It is estimated that bamboo forests cover over 5 million hectares just in Peninsular Malaysia, which makes up almost 75 million bamboo clumps in this region. [Data provided by the Forestry Department Peninsular Malaysia]

As the Power Plant will utilize approximately **4,000 metric tonnes** of bamboo in a month, existing bamboo farmers, and village folks indulged in harvesting wild bamboo may benefit directly by supplying the biomass to this Project. Others to benefit in getting more income are many bamboo related activities such as harvesting, collection, processing and sale of bamboo



wood, which will be a major source of income for millions of rural people, particularly poor farmers and the B40 families in Kedah. In future, our KLPK bamboo farm can provide sustainable livelihood opportunities for many people in terms of employment in rural area.

Bamboo farm are self-regenerating: once harvested, the plants grow back, without the need to replant. This means that a well-managed bamboo area can afford a sustainable, regular source of income within a short time. In addition, bamboo can be harvested and processed using simple, handheld tools, without the need for heavy machinery or electric equipment.

## **2. Kedah to be top producer of Biochar – the black gold.**

PB2E will produce and market biochar as one of the main products. Biochar is known to be a high-quality charcoal that is created after gasification in our Technology. Biochar is recognized as the most stable form of carbon, which can be used in many applications. Among its many benefits, biochar burns without smoke, suitable to be use as barbeque briquette. It is proven useful to create healthy soils and increases crop fertility. Quality biochar may offer greater crop yield in paddy, maize, and vegetable production.

Recent enthusiasm for utilizing biochar has emerged around the world, especially as a response to both climate change impacts and food insecurity. Connecting biochar production with sustainable bamboo cultivation unites two excellent resources for addressing these issues. Bamboo biochar has one of the highest qualities with a highly micro-porous physical structure and works best in pollution control application. It is also an effective fertilizer when incorporated with sludge composing thereby effectively saving fertilizer use.

Our power plant will produce an estimated **800 MT per month** of high quality bamboo biochar which could offset considerable amount of carbon dioxide emission worldwide.

## **Conclusion**

In a nutshell, Kedah will have the first bamboo biomass power plant and all this would be a direct support to the Malaysian Government's Bamboo 2.0 Initiative, as well as fulfilling the Ministry of Natural Resources and Energy Malaysia to lower the carbon footprint in our beloved country. PB2E stand ready to meet that call with the objective of creating a new wealth in bamboo, sustainable employment in rural Kedah, and a green future for all.



**For more information, please contact:**

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