



# REDUCING GREENHOUSE GAS EMISSIONS

## COMPANY PROFILE MILLS AEP GROUP



**PT. UKINDO**

**PT. TASIK RAJA**

**PT. BINA PITRI JAYA**

**PT. SAWIT GRAHA MANUNGAL**

**PT. MITRA PUDING MAS**

**PT. ALNO AGRO UTAMA - SUMINDO**

**SEPTEMBER 2020**

**ANGLO EASTERN PLANTATION**

**Created by: EHS & Sustainability Department**

AEP Group monitors greenhouse gas (GHG) emissions and is constantly looking for ways to reduce carbon emissions in plantations and mills. We continue to strive to adopt best practices and have demonstrated it by building methane capturing facilities in a number of our palm oil mills. We currently have 3 methane capturing facilities with another under construction and 1 biomass plant operating in our palm oil mills. It is planned that in the future all AEP Group factories will have methane capturing facilities. We are committed to continuously reducing GHG emission by the methane gas generated from the treatment of palm oil mill effluent (POME). The recovered biogas will be used primarily for electricity generation while the excess is flared to minimize methane emission. This method is currently the best way to reduce emission of greenhouse gases.

# PT. UNITED KINGDOM (UKINDO)

## Blankahan Palm Oil Mill

PT. United Kingdom is a company with an oil palm plantation and a palm oil mill located in Blankahan Village, Kuala District, Langkat Regency, North Sumatra Province. The estate has an area of 956.20 hectares of oil palm plantations with a palm oil mill of capacity of 45 MT FFB / hour which has been operating since 2005. The mill has coped with the demands for environmental sustainability by adopting the technological advances in waste treatment. PT. Ukindo has invested in waste treatment plants that serves to reduce the emission of GHG and at the same time being economically viable. The liquid effluent is utilized for production of biogas which is trapped and then utilized as fuel in biogas engines to generate power.

- Biogas, a liquid waste treatment (methane trap) that produces electricity



- Biomass, processing of Empty Fruit Bunches into Dried Long Fiber (DLF) and Dried Short Fiber (DSF)



- Sequential Batch Reactor Tank (SBR) For Aeration Of Effluent



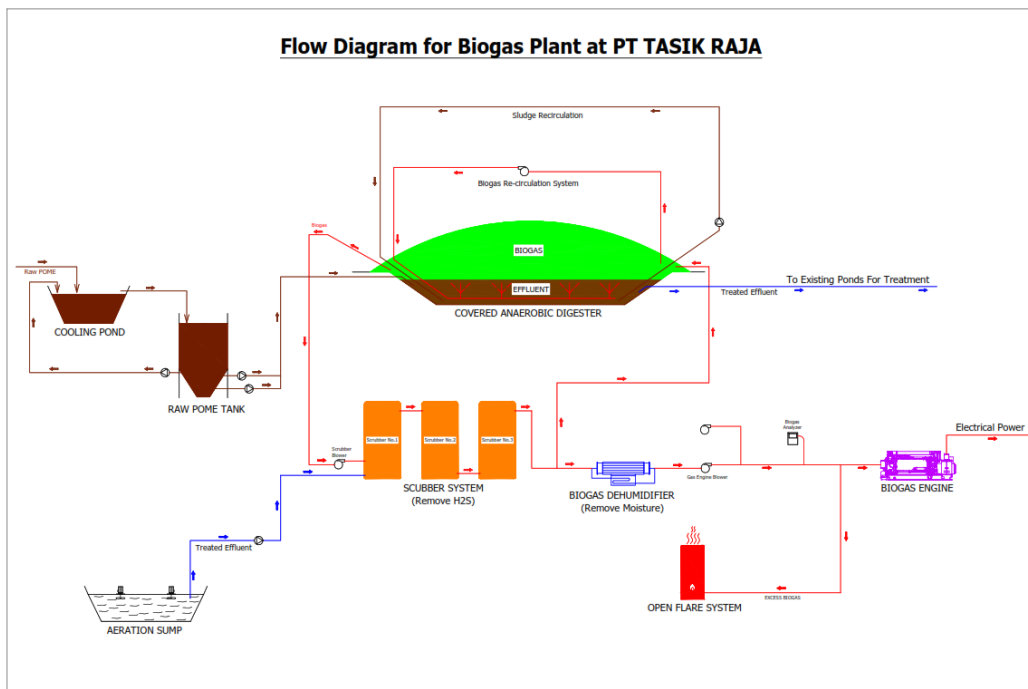
PT. Ukindo is very committed to the sustainability of the environment, as it has obtained the Indonesian Sustainable Palm Oil (ISPO) certificate. It is committed to make continuous improvements of its policies for the benefit of the environment and the welfare of the community around the estate.



# PT. TASIK RAJA

## Tasik Raja Palm Oil Mill

PT. Tasik Raja is a company which has plantation with a palm oil mill located in Bukit Tujuh Village, Torgamba District, Labuhan Batu Selatan Regency, North Sumatra Province. Tasik Mill has The estate has an area of  $\pm 6,130$  hectares of oil palm plantations with a palm oil mill which has been operating since 1991. The mill can currently process with an average capacity of 70 MT FFB / hour. PT. Tasik Raja has also received the Indonesian Sustainable Palm Oil (ISPO) certificate and a PROPER in BLUE Rating (Company Performance Rating Evaluation in Environmental Management). In order to become a sustainable company, currently PT. Tasik Raja Oil Mill is building a Biogas Plant capable of producing a maximum of 2.4 MW of electric power. Under the policy for continuous improvement this plant was constructed to minimize the emission of GHG into the environment and at the same time utilize the biogas to generate power.



# PT. BINA PITRI JAYA

## Bina Pitri Jaya Palm Oil Mill



**PT. Bina Pitri Jaya** is one of our companies located in Kampar Regency, Riau with a mill operating from 2007. The estate has an area of  $\pm 4,329$  hectares of oil palm and the mill is now operating at 60 MT FFB/hour. PT. Bina Pitri Jaya is located in the village of Kota Garo KM 6, Tapung Hilir District, Kampar Regency. Based on the projections of the company's growth, the capacity of the mill will be increased to a maximum 80 MT FFB / hour. The supply of FFB for the mill will be from our own estate and the smallholders located around the estate. PT. Bina Pitri Jaya has also received the Indonesian Sustainable Palm Oil (ISPO) certificate and a PROPER in BLUE Rating (Company Performance Rating Evaluation in Environmental Management). In accordance to our NDPE policy which was published in May 2019, PT. Bina Pitri Jaya is committed to implementing sustainability programs, one of which is to reduce greenhouse gas emissions from power generation such as reducing the use of diesel fuel for the gensets by using renewable fuels such as palm fibre and palm shells for the boilers to operate the steam turbines. We are also prioritizing the use of LED lights and planting trees around the factory and in the future the company plans to build methane capture facilities when there is demand for power. This will further reduce the emission of green house gases.

# PT. SAWIT GRAHA MANUNGGAL

## Sawit Graha Manunggal Palm Oil Mill



### PT. Sawit Graha Manunggal

The palm oil mill in PT. Sawit Graha Manunggal began operation from 2015 and currently is operating at a capacity of 60 MT FFB / hour. The source of FFB is obtained from its own plantations, plasma and the smallholders in the vicinity. The estate has a land bank of  $\pm$  14,657 hectares where most of it has been planted with oil palm. The company is committed to sustainable environmental practices and is currently implementing best practices in environmental management. The mill has constructed methane capture facilities which has reduced drastically the emission of greenhouse gases which gets produced in the treatment of palm oil mill effluent. PT. Sawit Graha Manunggal has received the Indonesian Sustainable Palm Oil (ISPO) certificate and a PROPER in BLUE Rating (Company Performance Rating Evaluation in Environmental Management).



### Company's address :

The sub-districts of Dusun Timur, Karusen Janang, Paku, Dusun Tengah, Paju Epat and Pematang Karau, East Barito Regency, Central Kalimantan Province.

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# PT. MITRA PUDING MAS

## Mitra Puding Mas Palm Oil Mill



PT. Mitra Puding Mas is located in Pasar Seblat Village, Putri Hijau District, North Bengkulu Regency. The Mitra Puding Mas Palm Oil Mill has the maximum processing capacity of 80 MT FFB/ hour and the estate has an area of  $\pm 4,323$  Ha of oil palm plantation. The mill is committed to preserving the environment with the objective to reduce the emission of greenhouse gases. Therefore it has built a Biogas Plant with power generation where the electricity produced is sold to the National Grid so that the company also benefits economically from the sale of electricity. PT. Mitra Puding Mas has received certificates related to the environment, namely:

- ISPO (Indonesian Sustainable Palm Oil)
- ISCC (International Sustainability & Carbon Certification)
- PROPER in BLUE Rating (Company Performance Rating Evaluation in Environmental Management).

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# PT. ALNO AGRO UTAMA

## Sumindo Palm Oil Mill



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### *PT. Alno Agro Utama – Sumindo Palm Oil Mill*

The location of Sumindo Oil Mill is in the area of Napal Putih Village, Napal Putih District, North Bengkulu Regency. Sumindo Palm Oil Mill has been operating since 2010 and is processing the FFB in a sustainable manner in accordance to the environmental impact assessment study. Currently the mill's processing capacity is 60 MT FFB / hour and the estates cover an area of  $\pm 14,202$  hectares of oil palm plantation. The source of FFB for the mill is obtained from our estates and smallholders.

Sumindo Mill has an Effluent Treatment Plant where the final effluent is applied on estate land to serve as a fertilizer. The BOD and COD values of this treated effluent are well below the levels set in the Environmental Regulations.

Environmental related certificates that have been obtained are:

- ISPO (Indonesian Sustainable Palm Oil)
- PROPER in BLUE Rating (Company Performance Rating Evaluation in Environmental Management).