

POME / EFB valorization

Our "art" is to transform these "waste" into valuable by-products.

▶ Conceptual engineering
(best solution for each case)

▶ Project implementation
follow-up / supervision



▶ Audit/rehabilitation
of existing plants *

▶ O&M audit and
optimization

*ETPs/ biogas plants / composting plants / evapo-drying units



**BIOTEC opened its department of CONSULTANCY SERVICES in Malaysia
30+ years of worldwide experience in POME**

POME and EFB are often considered as "waste" while they have energy, fertilizer and/or animal feed value.

Average data for BIOTEC plants:

Gas:	▶ 15 m ³ CH ₄ / T FFB
Biofertilizer:	▶ 0,75 kg N/ T FFB (+ all other macro and micronutrients)
Animal feed:	▶ 40 kilos/ T FFB

Consequently, POME has a value between 3 and 10 US\$/T FFB (1 and 3 M US\$/year for a 300.000 T/year FFB mill)

ETPs allow the mills meeting environmental discharge standards. They require investment and generate O&M costs but no income neither savings and by the way no ROI.

On the contrary, VALORIZATION PLANTS have always ROI.

Mills which consider by-products as "waste" will not compete on a long-term.

Do not start an ETP project; start a VALORIZATION PROJET, to "project" your company in the future, instead of tackling old and present problems and environmental liabilities.

To turn your POME and EFB into profit, chose the most experienced partner:
BIOTEC

Our track record:

- 35 years in farms and agro-industries
- 30+ years in POM
- 8 CDM projects
- > 100 FS and conceptual engineering contracts in POM
- > 30 large-scale POME-EFB valorization projects (since 1988)

