Voluntary Action to Reduce GHG Emissions by RSPO Members: Methane Capture of POME

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Background on Wilmar’s Palm Oil Mill operations

- Operates 46 mills in Indonesia and Malaysia
Palm oil mill operations represent 6% of our global GHG emissions.

In 2010, our palm oil mill operations emitted over 1.05 mil MT CO$_2$eq.
Where are we now?

- 6 methane capture projects
- Recovered biogas to be used for power or steam generation
- By 2012, estimated Diesel/MFO displacement from methane capture projects will be over 10 million litres (Diesel/MFO)
Existing and planned methane capture projects for 2012 can mitigate up to 250,000MT CO$_{2eq}$ per year.

Projects are registered under CDM or VCS.
Wilmar Carbon Portfolio

- 6 registered CDM projects
- 4 CDM projects undergoing validation
- 6 registered VCS projects
- Combined emission reduction potential at just under 1 mil MT CO$_{2eq}$
- Issued CERs to date at 343,758
Here’s the real reason why we did it: Cost savings!

- Power generated by Diesel genset cost more than 6 times than biogas generator/methane capture plant
- Biogas generator from a standard mid-sized mill can generate enough power to supply 500 homes
Technologies Reviewed for POME

- Two-stage Continuous-Stirred Tank Reactor Anaerobic Digestion System
- Single-stage Continuous-Stirred Tank Reactor Anaerobic Digestion System
- Covered Lagoons Anaerobic Digestion System

Efficiency & Lifetime

Investment cost
Thank you