

STAINA

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## GHG Emission Reduction: Monitoring and Reporting by RSPO Members

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### LEARNING TO LIVE TOGETHER FROM VISION TO TRANSFORMATION

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## **Presentation Outline:**

- ERWG Progress
- C5.6 and C7.8 report submission
- Advancement in PalmGHG Calculator & improved GHG Assessment Procedure for New Plantings
- Reporting framework for C5.6 & C7.8 from 1<sup>st</sup> January, 2017

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5.6 Report Submissions:				
	Year Jan-Dec 2015	Year Jan-Aug 2016		
Total Submission for C5.6	152	173		
Percentage of submission using PalmGHG Calculator * Starting 1 <sup>st</sup> January 2017, PalmGHG is to be used	91%	95%		
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ubmissio	ns with comb	ination of pea	it, land use cha	inge and metha	ne capture
Peat	LUC	МС	2015	2016	Total
V	√	√	2	4	6
V	v		10	29	39
V			11	12	23
V		V	12	5	17
	V	V	12	17	29
	v		56	47	103
		V	7	8	15
			18	28	46





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## Monitoring and Implementation Challenges (C5.6):

- Programming challenges: compatibility and to cater different languages.
- Developing and reaching consensus on RSPO Default values.
- Challenges face with the application of the tool.
- Incomplete data and information through pdf submission.
- Submission using other tool, different system boundary.

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## Monitoring and Implementation Challenges (C7.8):

- Verifying local custom land classification and values used.
- Lack of awareness on the need for GHG assessment for new plantings.
- Confusion between the PalmGHG Simplified Excel for New Plantings and PalmGHG Calculator.
- Different approach in GHG assessment and way of presenting calculation data.
- Lacking of GHG emissions data from mill operation for new plantings.
- Confusion on GHG assessment of mill operation.

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## **Advancement in PalmGHG V3:**

	Version 2	Version 3	
Data Input	Calculation is based on 3-year average	Only 1 year data is required	
Biomass to carbon conversion value (tCO <sub>2</sub> e)	0.45	0.5	
Crop sequestration model	Dynamic Growth Model based on OPCABSIM & OPRODSIM	Static Growth Model based on OPCABSIM & OPRODSIM	
Emission from other Land use change (i.e. road, ditches, mill)	Not included	Included with option for custom and default value	
Fertiliser Sea transport distance	No RSPO default provided	RSPO default provided	
Emissions from compound fertilisers	Separate calculation sheet	Incorporated within calculator	
Conservation Sequestration	No RSPO default provided	RSPO default provided	
Measurement of COD removed	COD removed is to be calculated by user	Direct before and after COD measures	
POME diverted to compost	Assumption adopt for no POME is diverted to composting process prior to anaerobic digestion	Users can indicate if a certain percentage volume of POME is diverted to composting	

PalmGHG Calculator V3.0.1 is also equipped with the 'no mill' accounting option to be used by growers without a mill to calculate estimated net Green House Gas

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### GHG Assessment Procedure for New Plantings:

- Improved clarity on the process.
- Guidance for scenario development.
- Guidance for GHG emissions projection.
- Improved reporting framework.
- Updated New Development GHG Calculator.



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