NET CARBON DIOXIDE REMOVALS

*VM0047 Methodology
*CCB Drafts are currently incomplete. Shortcomings are highlighted in yellow and red. However, they contain pertinent information on CCB benefits and methodologies.

CARBON SINKS

Forest Inventories and Literature Review to gather data on planted species.

Non-Linear Regression Modeling of DBH (cm) at Age. Utilized R to produce models, graphs and statistical results.

Model Selection based on R2 statistical test, early life growth predictions.

Dataset averaging to predict DBH at age for each project site.

Allometric Equations Converting DBH (cm) into mass (kg). Results are converted to Co2e/ha utilizing the percent carbon of trees (47%) and conversion to Co2e (44/12).

Results scaled by hectares planted.

Ex-Ante Estimation of Carbon Sequestration from years 1-50.

The Performance Benchmark Analysis is currently being conducted. RRG will compare high resolution imagery, NDFI and LiDAR to calculate changes in stocking. Carbon forecasts are not currently discounted by the PB.

Uncertainty--
30% for current estimations.

PROJECT EMISSIONS

Transportation emissions for project establishment and operations have not been quantified. RRG will calculate these in the future.

Emissions from Nitrogen Fertilizer (only Philippines, Tanzania is assumed 0).

Leakage Rate--
25% for current estimations. RRG will use the VM0054 tool to quantify leakage. View potential leakage belts here.

Project Emissions (tonnes Co2e)

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