

Certificates and Management Units

Generated: 21 Oct 2011, 13:15

Project: Kikonda Forest Reserve

ID: UG-KFR

Accounting Standard: CarbonFix Standard

Certification Type: Validation

Total eligible area: 921 ha

CO2-certificates: 70% of total Net-CO2-Reduction
216 232 (ex-ante)
0 (ex-post)

Project Buffer: 30% of total Net-CO2-Reduction
92 671 (ex-ante)
0 (ex-post)

Project emissions: 0.5 % of CO2 reduction

Crediting period: 50 years

Project start: October 2002

The amount of certificates is calculated by the ClimateProjects system according to the following formulas.
Terms in **green** indicate parameters which are entered by the project developer within the ClimateProjects system.

Net-CO2-reduction per ha = CO2 reduction - Baseline - Leakage - Project emissions

Project emissions = Management emissions - Biomass burned - Fertilizer used

Net-CO2-reduction per MU = Net-CO2-reduction per ha * Eligible Area

CO2-certificates = Net-CO2-reduction * (100% - Project buffer)

Year of repetition

The parameter **Year of repetition** allows project developers to repeat their entries within the calculation form "Net-CO2-reduction per ha".

- The repetition will stop at the end of the Crediting period. This parameter is defined by the entered values of the **Crediting period** and **Project start**.
- If there are gaps between the years entered, these will also be kept in the repetition.

All MUs

CO2-certificates

Year	Verified (ex-post)		Validated (ex-ante)		Year	Buffer (ex-post)		Buffer (ex-ante)	
		Σ		Σ			Σ		Σ
2002	0	0	0 (-845)	0 (-845)	2002	0	0	0 (-362)	0 (-362)
2003	0	0	0 (-845)	0 (-1 691)	2003	0	0	0 (-362)	0 (-725)
2004	0	0	0 (-608)	0 (-2 299)	2004	0	0	0 (-260)	0 (-985)
2005	0	0	0 (-3 444)	0 (-5 743)	2005	0	0	0 (-1 476)	0 (-2 461)
2006	0	0	0 (-10 773)	0 (-16 516)	2006	0	0	0 (-4 617)	0 (-7 078)
2007	0	0	0 (-10 472)	0 (-26 988)	2007	0	0	0 (-4 488)	0 (-11 566)
2008	0	0	0 (-239)	0 (-27 227)	2008	0	0	0 (-103)	0 (-11 669)
2009	0	0	8 316	0 (-18 911)	2009	0	0	3 564	0 (-8 105)
2010	0	0	15 728	0 (-3 182)	2010	0	0	6 741	0 (-1 364)
2011	0	0	19 413	16 231	2011	0	0	8 320	6 956
2012	0	0	23 502	39 733	2012	0	0	10 072	17 028
2013	0	0	26 172	65 904	2013	0	0	11 216	28 245
2014	0	0	32 240	98 145	2014	0	0	13 817	42 062
2015	0	0	35 026	133 170	2015	0	0	15 011	57 073
2016	0	0	39 188	172 358	2016	0	0	16 795	73 868
2017	0	0	31 120	203 478	2017	0	0	13 337	87 205
2018	0	0	12 576	216 054	2018	0	0	5 390	92 594
2019	0	0	178	216 232	2019	0	0	76	92 671
2020	0	0	0	216 232	2020	0	0	0	92 671
2021	0	0	0	216 232	2021	0	0	0	92 671
2022	0	0	0	216 232	2022	0	0	0	92 671
2023	0	0	0	216 232	2023	0	0	0	92 671
2024	0	0	0	216 232	2024	0	0	0	92 671
2025	0	0	0	216 232	2025	0	0	0	92 671
2026	0	0	0	216 232	2026	0	0	0	92 671
2027	0	0	0	216 232	2027	0	0	0	92 671
2028	0	0	0	216 232	2028	0	0	0	92 671
2029	0	0	0	216 232	2029	0	0	0	92 671
2030	0	0	0	216 232	2030	0	0	0	92 671
2031	0	0	0	216 232	2031	0	0	0	92 671
2032	0	0	0	216 232	2032	0	0	0	92 671
2033	0	0	0	216 232	2033	0	0	0	92 671
2034	0	0	0	216 232	2034	0	0	0	92 671
2035	0	0	0	216 232	2035	0	0	0	92 671
2036	0	0	0	216 232	2036	0	0	0	92 671
2037	0	0	0	216 232	2037	0	0	0	92 671
2038	0	0	0	216 232	2038	0	0	0	92 671
2039	0	0	0	216 232	2039	0	0	0	92 671
2040	0	0	0	216 232	2040	0	0	0	92 671
2041	0	0	0	216 232	2041	0	0	0	92 671
2042	0	0	0	216 232	2042	0	0	0	92 671
2043	0	0	0	216 232	2043	0	0	0	92 671
2044	0	0	0	216 232	2044	0	0	0	92 671
2045	0	0	0	216 232	2045	0	0	0	92 671
2046	0	0	0	216 232	2046	0	0	0	92 671
2047	0	0	0	216 232	2047	0	0	0	92 671
2048	0	0	0	216 232	2048	0	0	0	92 671
2049	0	0	0	216 232	2049	0	0	0	92 671
2050	0	0	0	216 232	2050	0	0	0	92 671
2051	0	0	0	216 232	2051	0	0	0	92 671

Management Units							
ID	Name of Unit	Planting time	Subunit	Biomass burned	Eligible Area	Net-CO ₂ -reduction per MU	
						ex-post	ex-ante
001	MU 0201	Oct 2002	500 trees per ha	Yes	0 ha	0 tCO ₂	0 tCO ₂
002	MU 0202_18.1	Oct 2002	1111 trees per ha	Yes	6 ha	0 tCO ₂	2 005 tCO ₂
003	MU 0203_18.1	Oct 2002	1111 trees per ha	Yes	16 ha	0 tCO ₂	5 346 tCO ₂
004	MU 0301	Apr 2003	1111 trees per ha	Yes	0 ha	0 tCO ₂	0 tCO ₂
005	MU 0302_18.9	Oct 2003	1111 trees per ha	Yes	22 ha	0 tCO ₂	8 139 tCO ₂
006	MU 0401	Apr 2004	1111 trees per ha	Yes	0 ha	0 tCO ₂	0 tCO ₂
007	MU 0402_18.2	Oct 2004	1111 trees per ha	Yes	21 ha	0 tCO ₂	7 122 tCO ₂
008	MU 0501_17.6	Apr 2005	1111 trees per ha	Yes	20 ha	0 tCO ₂	6 265 tCO ₂
009	MU 0502	Oct 2005	1111 trees per ha	Yes	0 ha	0 tCO ₂	0 tCO ₂
010	MU 0503_19.2	Oct 2005	1111 trees per ha	Yes	1 ha	0 tCO ₂	383 tCO ₂
011	MU 0504_19.2	Oct 2005	1111 trees per ha	Yes	75 ha	0 tCO ₂	28 718 tCO ₂
012	MU 0601_18.0	Apr 2006	1111 trees per ha	Yes	308 ha	0 tCO ₂	101 691 tCO ₂
013	MU 0701_18.0	Apr 2007	1111 trees per ha	Yes	129 ha	0 tCO ₂	42 591 tCO ₂
014	MU 0702_18.0	May 2007	1111 trees per ha	Yes	142 ha	0 tCO ₂	46 883 tCO ₂
015	MU 0703_18.0	Oct 2007	1111 trees per ha	Yes	53 ha	0 tCO ₂	17 499 tCO ₂
016	MU 0801_18.0	Jan 2008	1111 trees per ha	Yes	128 ha	0 tCO ₂	42 261 tCO ₂
Sum total						0 tCO₂	308 903 tCO₂

Planting time: Oct 2002

Net-CO2-reduction per ha

Eligible area: 6 ha
MU: MU 0202_18.1 (002)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2002	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2004	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2006	57	70	0	9	0	45	0	0.00	0 kg N	1.3	57	15	Validated
2008	69	139	0	9	0	45	0	0.00	0 kg N	1.6	69	83	Validated
2010	114	253	0	9	0	45	1	0.00	0 kg N	2.2	113	197	Validated
2012	138	391	0	9	0	45	1	0.00	0 kg N	2.9	137	334	Validated
2013*	0	391	0	9	0	45	0	0.00	0 kg N	2.9	0	334	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO2 reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Oct 2002

Net-CO₂-reduction per haEligible area: 16 ha
MU: MU 0203_18.1 (003)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2002	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2004	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2006	57	70	0	9	0	45	0	0.00	0 kg N	1.3	57	15	Validated
2008	69	139	0	9	0	45	0	0.00	0 kg N	1.6	69	83	Validated
2010	114	253	0	9	0	45	1	0.00	0 kg N	2.2	113	197	Validated
2012	138	391	0	9	0	45	1	0.00	0 kg N	2.9	137	334	Validated
2013*	0	391	0	9	0	45	0	0.00	0 kg N	2.9	0	334	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Oct 2003

Net-CO2-reduction per ha

Eligible area: 22 ha
MU: MU 0302_18.9 (005)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2003	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2005	16	16	0	9	0	45	0	0.00	0 kg N	1.0	16	0 (-39)	Validated
2007	63	79	0	9	0	45	0	0.00	0 kg N	1.3	63	24	Validated
2009	76	155	0	9	0	45	0	0.00	0 kg N	1.7	76	99	Validated
2011	124	279	0	9	0	45	1	0.00	0 kg N	2.3	123	223	Validated
2013	148	427	0	9	0	45	1	0.00	0 kg N	3.0	147	370	Validated
2014*	0	427	0	9	0	45	0	0.00	0 kg N	3.0	0	370	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO2 reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Oct 2004

Net-CO₂-reduction per haEligible area: 21 ha
MU: MU 0402_18.2 (007)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2004	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2006	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2008	57	70	0	9	0	45	0	0.00	0 kg N	1.3	57	15	Validated
2010	70	140	0	9	0	45	0	0.00	0 kg N	1.6	70	84	Validated
2012	115	255	0	9	0	45	1	0.00	0 kg N	2.2	114	199	Validated
2014	141	396	0	9	0	45	1	0.00	0 kg N	2.9	140	339	Validated
2015*	0	396	0	9	0	45	0	0.00	0 kg N	2.9	0	339	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Apr 2005

Net-CO₂-reduction per haEligible area: 20 ha
MU: MU 0501_17.6 (008)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2005	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2007	12	12	0	9	0	45	0	0.00	0 kg N	1.0	12	0 (-43)	Validated
2009	52	64	0	9	0	45	0	0.00	0 kg N	1.2	52	9	Validated
2011	66	130	0	9	0	45	0	0.00	0 kg N	1.6	66	74	Validated
2013	108	238	0	9	0	45	1	0.00	0 kg N	2.1	107	182	Validated
2015	130	368	0	9	0	45	1	0.00	0 kg N	2.7	129	311	Validated
2016	2	370	0	9	0	45	0	0.00	0 kg N	2.8	2	313	Validated
2017*	0	370	0	9	0	45	0	0.00	0 kg N	2.8	0	313	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Oct 2005

Net-CO₂-reduction per haEligible area: 1 ha
MU: MU 0503_19.2 (010)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2005	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2007	16	16	0	9	0	45	0	0.00	0 kg N	1.0	16	0 (-39)	Validated
2009	66	82	0	9	0	45	0	0.00	0 kg N	1.3	66	27	Validated
2011	79	161	0	9	0	45	0	0.00	0 kg N	1.7	79	105	Validated
2013	129	290	0	9	0	45	1	0.00	0 kg N	2.4	128	234	Validated
2015	150	440	0	9	0	45	1	0.00	0 kg N	3.1	149	383	Validated
2016*	0	440	0	9	0	45	0	0.00	0 kg N	3.1	0	383	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Oct 2005

Net-CO₂-reduction per haEligible area: 75 ha
MU: MU 0504_19.2 (011)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2005	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2007	16	16	0	9	0	45	0	0.00	0 kg N	1.0	16	0 (-39)	Validated
2009	66	82	0	9	0	45	0	0.00	0 kg N	1.3	66	27	Validated
2011	79	161	0	9	0	45	0	0.00	0 kg N	1.7	79	105	Validated
2013	129	290	0	9	0	45	1	0.00	0 kg N	2.4	128	234	Validated
2015	150	440	0	9	0	45	1	0.00	0 kg N	3.1	149	383	Validated
2016*	0	440	0	9	0	45	0	0.00	0 kg N	3.1	0	383	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Apr 2006

Net-CO₂-reduction per haEligible area: 308 ha
MU: MU 0601_18.0 (012)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2006	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2008	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2010	55	68	0	9	0	45	0	0.00	0 kg N	1.2	55	13	Validated
2012	69	137	0	9	0	45	0	0.00	0 kg N	1.6	69	81	Validated
2014	112	249	0	9	0	45	1	0.00	0 kg N	2.1	111	193	Validated
2016	136	385	0	9	0	45	1	0.00	0 kg N	2.8	135	328	Validated
2017	2	387	0	9	0	45	0	0.00	0 kg N	2.8	2	330	Validated
2018*	0	387	0	9	0	45	0	0.00	0 kg N	2.8	0	330	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Apr 2007

Net-CO₂-reduction per haEligible area: 129 ha
MU: MU 0701_18.0 (013)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2007	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2009	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2011	55	68	0	9	0	45	0	0.00	0 kg N	1.2	55	13	Validated
2013	69	137	0	9	0	45	0	0.00	0 kg N	1.6	69	81	Validated
2015	112	249	0	9	0	45	1	0.00	0 kg N	2.1	111	193	Validated
2017	136	385	0	9	0	45	1	0.00	0 kg N	2.8	135	328	Validated
2018	2	387	0	9	0	45	0	0.00	0 kg N	2.8	2	330	Validated
2019*	0	387	0	9	0	45	0	0.00	0 kg N	2.8	0	330	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: May 2007

Net-CO₂-reduction per haEligible area: 142 ha
MU: MU 0702_18.0 (014)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2007	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2009	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2011	55	68	0	9	0	45	0	0.00	0 kg N	1.2	55	13	Validated
2013	69	137	0	9	0	45	0	0.00	0 kg N	1.6	69	81	Validated
2015	112	249	0	9	0	45	1	0.00	0 kg N	2.1	111	193	Validated
2017	136	385	0	9	0	45	1	0.00	0 kg N	2.8	135	328	Validated
2018	2	387	0	9	0	45	0	0.00	0 kg N	2.8	2	330	Validated
2019*	0	387	0	9	0	45	0	0.00	0 kg N	2.8	0	330	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Oct 2007

Net-CO2-reduction per ha

Eligible area: 53 ha
 MU: MU 0703_18.0 (015)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2007	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2009	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2011	55	68	0	9	0	45	0	0.00	0 kg N	1.2	55	13	Validated
2013	69	137	0	9	0	45	0	0.00	0 kg N	1.6	69	81	Validated
2015	112	249	0	9	0	45	1	0.00	0 kg N	2.1	111	193	Validated
2017	136	385	0	9	0	45	1	0.00	0 kg N	2.8	135	328	Validated
2018	2	387	0	9	0	45	0	0.00	0 kg N	2.8	2	330	Validated
2019*	0	387	0	9	0	45	0	0.00	0 kg N	2.8	0	330	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO2 reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]

Planting time: Jan 2008

Net-CO₂-reduction per haEligible area: 128 ha
MU: MU 0801_18.0 (016)

Year	CO ₂ reduction		Baseline		Leakage		Project emissions ¹				Net CO ₂ reduction		Status
		Σ		Σ		Σ	ME	BB	FU	Σ		Σ	
2008	0	0	9	9	45	45	0	0.90	0 kg N	0.9	0 (-55)	0 (-55)	Validated
2010	13	13	0	9	0	45	0	0.00	0 kg N	1.0	13	0 (-42)	Validated
2012	55	68	0	9	0	45	0	0.00	0 kg N	1.2	55	13	Validated
2014	69	137	0	9	0	45	0	0.00	0 kg N	1.6	69	81	Validated
2016	112	249	0	9	0	45	1	0.00	0 kg N	2.1	111	193	Validated
2018	136	385	0	9	0	45	1	0.00	0 kg N	2.8	135	328	Validated
2019	2	387	0	9	0	45	0	0.00	0 kg N	2.8	2	330	Validated
2020*	0	387	0	9	0	45	0	0.00	0 kg N	2.8	0	330	Validated

* start year of repetition

¹ ME = Management emissions [0.5% * CO₂ reduction]

BB = Biomass burned [baseline * 10%]

FU = Fertilizer used (kgN) [0.005 * fertilizer used]