

## Calculation, in accordance with the CDM Tool 30

As per sub-equation (eq2) :

$$\text{NRB} = \text{H} - \text{RB}$$

		Data sourced from other public sources		
1) Sources of Data:	Official values received from Ministry Of Forest, Fiji	FAO Global Forest Assessment	<a href="https://www.investmentfiji.org.fj/pages.cfm/for-investors/sector-industry-profiles/forestry.html">https://www.investmentfiji.org.fj/pages.cfm/for-investors/sector-industry-profiles/forestry.html</a>	Global Forest Watch
Forest Area (ha) =	10,14,000	11,40,020	10,45,419	14,20,000
protected forest area (ha) =	92000			
MAI (t/ha/yr) =	8.2			
Therefore, as per sub-equation (eq 6) of the Tool 30 :				
RB = MAI x (Forest Area - Protected Forest Area)				
RB =	75,60,400	85,93,764	78,18,035.80	1,08,89,600
2) As per sub-equation (eq 4) of the Tool 30 , the parameter H can be expressed as:				
H = Fuelwood extraction (Domestic + Commerical) + Logging extraction + other extraction				
(Here, 'Fuelwood extraction' = Total fuelwood extraction in the country = [ (Average household wood fuel consumption X Number of households consuming wood fuel for thermal applications within the country) + (Fuelwood extraction for commercial use) ]				
1) Logging extraction (t/yr) =	21,86,98,777			
2) Fuelwood extraction (t/yr) =	7,20,630	( As per baseline fuelwood study, 9.42 tons/year/hh is the avg. consumption, about 0.9 million is the population, around 51% of population is the Fuelwood user that includes mostly rural and a small portion of semi-urban area; and about 6 is the avg. HH size )		
3) Commercial fuelwood extraction (t/yr)	7,47,005			
4) Other extraction assumed to be zero	0.00	(This needs to be approximately 10 times the fuelwood consumption to have a substantive impact. Hence not relevant)		
H (t/yr)	22,01,66,412			
3) NRB = H - RB	21,26,06,012	21,15,72,648	21,23,48,376	20,92,76,812
4) fNRB = NRB / (NRB + RB)	96.57%	96.10%	96.45%	95.05%
[ Thus, the calculated value using the sub-equations of CDM-Tool 30 is found to be higher than the value estimated using the UN Default value guidelines. Hence, conservative value for ER calculation has been considered, which is 90.97% ]				

### Note:

There could be a probability that the commerical fuelwood data received from the Ministry of Forest may also include the portion of fuelwood which are sold by local vendors to households (as currently sub-level of data is not officially available to confirm this probability). In such cases, the fuelwood data estimated form the baseline study for domestic fuelwood consumption may have already accounted such quantity of fuelwood coming from commercial sources (i.e. local fuelwood sellers). But this is only a probability and such probable double accounting will not make to any visible impact on the overall fNRB result. For example, even if we decrease the commerical fuelwood value by 50%, the net impact on fNRB result is only 0.01%. Hence above input values are reliable and conservative.