

THE POTENTIAL OF CAM CROPS AS A GLOBALLY SIGNIFICANT BIOENERGY RESOURCE: MOVING FROM FUEL OR FOOD TO FUEL AND MORE FOOD - ELECTRONIC SUPPLEMENTARY INFORMATION

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CONSTANTS		
Lower heating value of CH ₄	50.00	MJ kg ⁻¹
MW of CH ₄	16.00	
Molar volume	22.42	Litres mol ⁻¹
Density of CH ₄ at STP	0.71	kg m ⁻³
<i>Energy content of CH₄</i>	<i>35.68</i>	<i>MJ m⁻³</i>

ASSUMPTIONS		
Engine efficiency	41.3%	
Energy content of cellulosic biomass ¹	18	GJ dmt ⁻¹
Available land area	2.50E+09	Ha

Table ESI.1 Constants and assumptions used to calculate values in Table 4. ¹Varies between 16 and 20 largely as a function of ash content; oily or high sugar crops maybe higher.