

**Table S1. Inventory of chemical and energetic inputs and outputs for the pretreatment of maize biomass under four different scenarios.**

Scenario	Inputs				Outputs	
	Biomass (kg)	H <sub>2</sub> SO <sub>4</sub> (kg)	NaOH (kg)	Heat (kWh)	Total Glucose Production (kg)	Na <sub>2</sub> SO <sub>4</sub> (kg)
I	10.5*10 <sup>3</sup>	2164	44.1	149*10 <sup>3</sup>	3700	3133
II	10.5*10 <sup>3</sup>	2164	44.1	149*10 <sup>3</sup>	3200	3133
III	10.5*10 <sup>3</sup>	1082	22.1	121*10 <sup>3</sup>	2900	1567
IV	11.0*10 <sup>3</sup>	2267	46.2	156*10 <sup>3</sup>	3700	3283