



## Supplementary Materials

**Table S1.** Mixing Ratios for the Production of SCG Briquettes

No.	Spent coffee grounds (SCG) (wt.%)	Bottom ash (BA) (wt.%)	Kaolinite clay (KC) (wt.%)
1	20	71	9
2	30	58	12
3	50	35	15
4	60	22	18
5	70	9	21

**Table S2.** Elementary Analysis on SCG Briquette, SCG and Anthracite Briquette

Sample	Carbon content (wt.%)	Nitrogen content (wt.%)	Sulfur content (wt.%)
20 (wt.%)	47.2		0.22
30 (wt.%)	46.1		0.19
SCG briquette 50 (wt.%)	48.5	-	0.14
60 (wt.%)	48.1		0.07
70 (wt.%)	54.9		0.05
Spent coffee ground	53.05	1.62	0.05
Anthracite briquette	75.23	0.93	0.85