Supplementary Materials

Table S1. Physicochemical characteristics of stationary combustion source feedstock

Analysis		SRF power plant		Coal-fired power plant		Unit
		RDF	RPF	Blending bituminous	Bio SRF	
Proximate analysis	Moisture	4.2	3.7	3.0	9.2	wt%
	Volatile	78.3	84.3	31.7	63.2	
	Ash	13.4	9.3	14.8	20.2	
	Fixed carbon	4.1	2.7	50.5	7.4	
Ultimate analysis	C	54.2	65.4	70.0	42.0	wt%
	H	6.7	10.5	4.4	4.6	
	N	0.5	0.7	1.95	1.8	
	O	23.5	12.4	6.5	26.9	
	S	<0.05*	<0.05*	0.40.	0.9	
IC	Cl	6120	7980	581	3000	mg/kg
Hg concentration		450	310	45.1	683	μg/kg
ICP-OES	As	1.9		1.9	<0.1*	mg/kg
	Cr	21.2		10.2	374	
	Cu	31.6		17.9	191	
	Ni	24.7		11.8	41	
	Cd	0.1		0.1	<0.1*	
	Pb	27.9		26.1	37	
Low heating value		5710	6440	6650	3830	kcal/kg

IC: ion-chromatography; SRF: solid refuse fuel; ICP-OES: inductively coupled plasma atomic emission spectroscopy
* Below detection limit of analysis

Table S2. Fundamental characteristics of industrial and medical waste

Analysis		Industrial waste	Medical waste	Unit
Proximate analysis	Moisture	13.00	27.85	wt%
	Volatile	82.47	68.94	
	Ash	4.53	3.21	
Ultimate analysis	C	60.62	46.16	wt%
	H	6.44	7.71	
	N	2.52	0.37	
	O	12.66	12.71	
	S	0.34	0.10	
IC	Cl	0.43	1.89	mg/kg
Low heating value		6144	5239	Kcal/kg