Table S1. Mechanical durability of wheat straw briquettes produced of 0-2 mm fraction depending on the working chamber operation time and the rotational speed of the working chamber.

Working chamber operation time	**Average value of mechanical durability (D_u)**			**Standard deviation (SD)**			**Coefficient of variation**		
	%			%			%		
	21 rpm	25 rpm	30 rpm	21 rpm	25 rpm	30 rpm	21 rpm	25 rpm	30 rpm
t_5 = 5 min.	91.17	91.06	89.65	1.18	0.88	0.99	1.30	0.97	1.11
t_{10} = 10 min.	89.68	87.51	85.33	0.91	0.71	0.80	1.02	0.82	0.93
t_{15} = 15 min.	87.29	84.45	82.37	1.06	1.24	1.13	1.21	1.47	1.37
t_{20} = 20 min.	85.23	82.13	79.66	1.42	1.42	1.46	1.67	1.72	1.84
t_{25} = 25 min.	83.82	80.29	77.93	1.07	1.59	1.11	1.28	1.98	1.42
t_{30} = 30 min.	82.17	78.58	76.21	1.41	1.59	1.10	1.71	2.03	1.44
t_{35} = 35 min.	80.44	77.11	74.36	1.88	1.60	1.61	2.34	2.07	2.16
t_{40} = 40 min.	79.53	75.89	72.75	1.56	1.60	1.43	1.96	2.11	1.96
t_{45} = 45 min.	78.13	74.78	71.64	1.99	1.77	1.25	2.55	2.37	1.74
t_{50} = 50 min.	76.81	73.44	70.16	2.44	1.95	1.24	3.17	2.66	1.77
t_{55} = 55 min.	75.57	72.58	69.05	2.80	1.78	1.06	3.71	2.45	1.53
t_{60} = 60 min.	74.91	71.60	67.94	2.58	1.78	1.23	3.44	2.49	1.81

Table S2. Mechanical durability of wheat straw briquettes produced of 2-15 mm fraction depending on the working chamber operation time and the rotational speed of the working chamber.

Working chamber operation time	**Average value of mechanical durability (D_u)**			**Standard deviation (SD)**			**Coefficient of variation**		
	%			%			%		
	21 rpm	25 rpm	30 rpm	21 rpm	25 rpm	30 rpm	21 rpm	25 rpm	30 rpm
t_5 = 5 min.	88.12	88.09	87.11	0.40	0.04	0.16	0.46	0.05	0.18
t_{10} = 10 min.	83.66	83.00	81.53	0.61	0.59	0.40	0.73	0.71	0.49
t_{15} = 15 min.	80.78	80.15	77.82	0.89	0.77	0.10	1.10	0.96	0.12
t_{20} = 20 min.	78.47	78.16	75.83	0.81	0.27	0.47	1.04	0.35	0.62
t_{25} = 25 min.	76.40	76.05	73.48	0.96	0.09	0.33	1.26	0.12	0.44
t_{30} = 30 min.	74.84	74.07	71.87	0.87	0.62	0.52	1.17	0.83	0.72
t_{35} = 35 min.	73.43	72.70	70.63	0.73	0.45	0.19	0.99	0.61	0.26
t_{40} = 40 min.	71.95	71.22	68.89	0.64	0.45	0.56	0.90	0.63	0.81
t_{45} = 45 min.	70.38	69.97	67.78	0.23	0.46	0.40	0.33	0.65	0.58
t_{50} = 50 min.	69.31	68.86	66.66	0.28	0.99	0.58	0.40	1.43	0.88
t_{55} = 55 min.	67.99	67.49	65.55	0.15	0.24	0.77	0.22	0.35	1.18
t_{60} = 60 min.	67.08	66.63	64.68	0.14	0.41	0.61	0.21	0.61	0.94

Table S3. Mechanical durability of wheat straw briquettes produced of 15-45 mm fraction depending on the working chamber operation time and the rotational speed of the working chamber.

Working chamber operation time	**Average value of mechanical durability (D_u)**			**Standard deviation (SD)**			**Coefficient of variation**		
	%			%			%		
	21 rpm	25 rpm	30 rpm	21 rpm	25 rpm	30 rpm	21 rpm	25 rpm	30 rpm
t_5 = 5 min.	84.48	84.16	80.02	1.08	0.11	0.31	1.28	0.13	0.39
t_{10} = 10 min.	76.73	75.49	72.26	1.10	0.87	0.82	1.44	1.15	1.14
t_{15} = 15 min.	71.20	71.17	68.93	1.48	1.02	0.29	2.08	1.44	0.43
t_{20} = 20 min.	69.22	68.57	67.08	1.26	0.48	0.23	1.82	0.70	0.35
t_{25} = 25 min.	67.73	66.59	65.35	0.94	0.47	0.46	1.39	0.70	0.71
t_{30} = 30 min.	66.50	65.72	63.87	0.73	0.64	0.24	1.10	0.97	0.37
t_{35} = 35 min.	65.26	64.48	62.02	0.82	0.42	0.28	1.26	0.66	0.46
t_{40} = 40 min.	64.44	63.74	60.54	0.84	0.08	0.63	1.31	0.12	1.04
t_{45} = 45 min.	63.44	62.50	59.06	1.32	0.09	0.07	2.08	0.14	0.12
t_{50} = 50 min.	62.62	61.88	58.32	1.12	0.27	0.07	1.79	0.43	0.12
t_{55} = 55 min.	62.13	61.39	57.71	1.45	0.27	0.25	2.34	0.44	0.43
t_{60} = 60 min.	61.05	60.27	57.09	1.47	0.25	0.42	2.41	0.41	0.74