

Construction of a Facility for the Energy Use of MSW in Minsk

About 4 million tons of municipal solid waste (hereinafter referred to as MSW) is generated annually in the Republic of Belarus (in 2018 - 3.795 million tons, in 2019 - 3.785 million tons, in 2020 - 4.07 million tons, in 2021 - 3.9 million tons).

The largest amount of MSW is generated in Minsk (0.786 million tons in 2021).

The morphological composition of municipal waste generated in the housing stock of Minsk is given in the table (*information from the feasibility study of alternative options for the fuel and energy use of MSW generated in Minsk*).

Table "Morphological composition of mixed municipal solid waste and municipal solid waste collected separately, forming in the housing stock of Minsk"

№	Average annual morphological composition of MSW, % by weight				
	Municipal waste, total	Well-maintained housing stock	Individual residential development	Weighted average values for MSW waste	
		%	%	%	thousand tons
Organic waste					
1	Wood	1,67	0,77	1,66	7,1
2	garden waste	1,81	22,82	2,19	9,4
3	Organic waste, non-recyclable (for compost)	5,32	8,34	5,38	23,0
Secondary material resources recyclable					
1	Paper, cardboard	2,71	1,26	2,68	11,5
2	Tetrapack	0,52	0,26	0,52	2,2
3	Metals	0,98	0,61	0,98	4,2
3.1	ferrous metals	0,77	0,45	0,77	3,3
3.2	non-ferrous metals	0,21	0,16	0,21	0,9
4	Batteries	0,00	0,00	0,00	0,0
5	Textile	1,94	1,26	1,93	9,3
6	Glass	3,95	2,53	3,93	16,8
7	Leather and rubber	0,81	0,45	0,80	3,4
8	Polymers	4,21	2,99	4,19	17,9
8.1	PET bottle	1,95	1,30	1,94	8,3

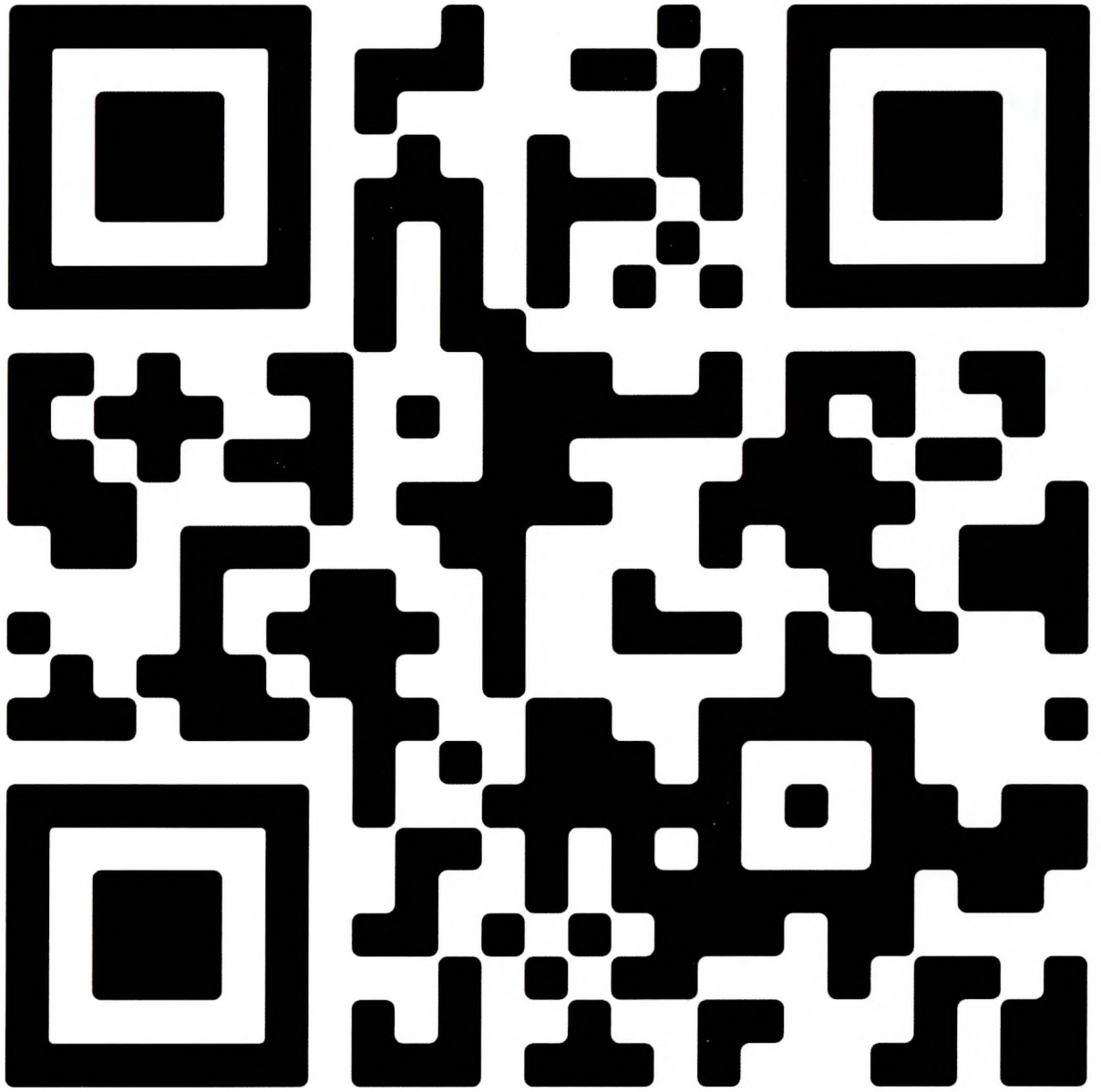
8.2	HDPE bottle	0,48	0,37	0,48	2,0
8.3	polyethylene	1,12	0,90	1,12	4,8
8.4	other plastic	0,66	0,42	0,66	2,8
Secondary material resources, non-recyclable					
1	Non-recyclable polymers	3,68	2,071	3,65	15,6
2	Construction waste and stones	2,55	3,111	2,56	11,0
3	Mixed waste	68,59	52,672	68,31	292,3
4	Screening of small fractions	1,24	0,851	1,23	5,3
		100,0	100,0	100,0	427,95

The National Strategy for the Management of Municipal Solid Waste and Secondary Material Resources in the Republic of Belarus provides for the construction of a facility for the energy use of MSW in Minsk.

For reference: At present, a feasibility study has been developed for the facility for the energy use of MSW generated in Minsk. Based on the results of the development of the feasibility study, it was determined that the most preferable is the construction in Minsk of an industrial complex for sorting MSW with the separation of SMR, production of soil, production of RDF fuel with subsequent shipment to cement plants of the Republic of Belarus.

At the same time, the planned amount of investment in the creation of regional facilities for sorting and processing MSW does not provide for financing the construction of a facility for the energy use of MSW for the city of Minsk.

Based on the abovementioned, the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus asks to consider the possibility of investing in the construction of the above facility.



MSW