

502.12

... ¹(... ..), ... ²(...)
₁ ₂ « — »

67,5%.

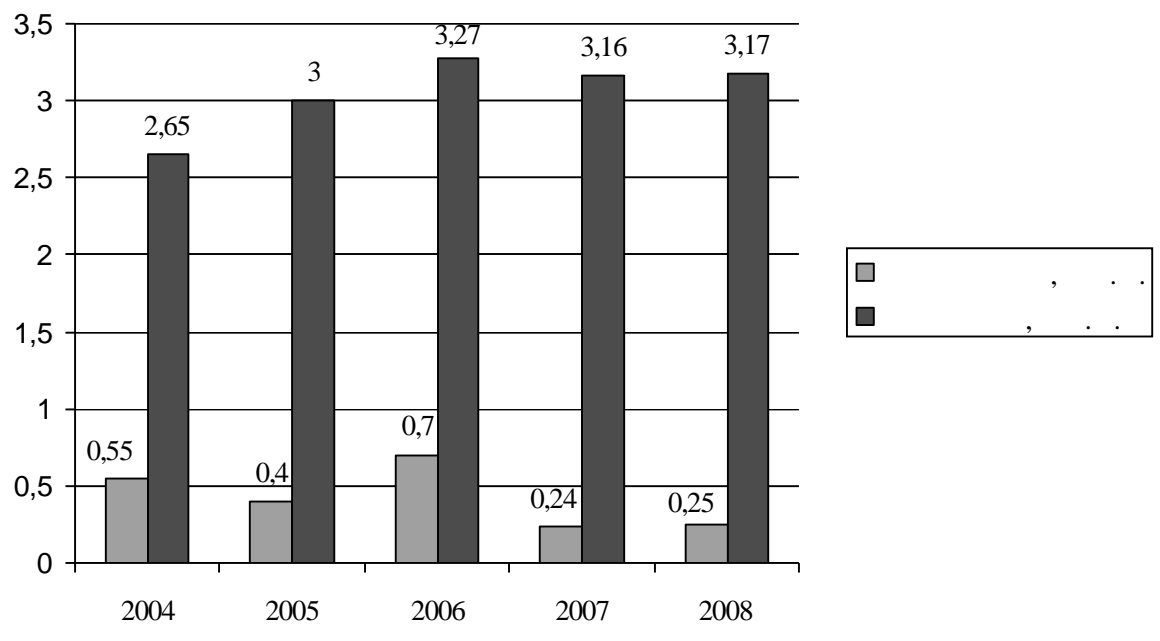
— (, ,),
 (, ,).
 , .
 , .
 , .
 , .
 , .
 , .

1 –

	, %
	10-15
	2-40
	2-30
	2-30
	0,5-1,5
	0,15-0,2
	50-80

()
 , , I 10000 8
 1000 1 .
 3170 . 14 358,8
 [1].
 , .
 , 70%
 ,

2009, 794, 157, 59%, 10%, 70%, [2], 5%, - 100%, 2004-2008, . 1.



1 -

. 2
[3].

2 –

	, %
(SiO ₂)	37-63
(Al ₂ O ₃)	9-37
(Fe ₂ O ₃)	4-17
(CaO)	1-32
(MgO)	1-32
(SiO ₃)	0,05-2,5
(Na ₂ O+K ₂ O)	0,5-5

5-10% 3%.

5%

20% 5% ()

15-50%,

80% [4].

10%

5%.

(10-15%)

2-3%

14%

3-5%.

()

[5].

[6].

150-200

25

(2

10-15

.3.

3 –

	Zn	Ga	Co	Ni	Ge	V	Sn
, /	200	100	300	700	500	400	200

Sr, Zn, V, Ge

10 1

V, u, Ni, Zn, U, Pb.
65 %,

1 / .
()

V₂O₅

Ni.

(, Ge Ga),

– ,

(, , ,)

(,),

•

(-)

•

(500 °)

•

().

1600° ,

100

(-).

– 85-90%. 10-20%, 20-40%,
(, .).

nNa₂O·mSiO₂·kAl₂O₃ , ,
, / : 3-10 , 2-5 , 4-6,5 . [4].
3,0 / ()

40
30 %

1. www.ukrstat.gov.ua -
2. www.health.gov.ua -

3. . . . : , 2007. – 368 . / . . . ,
4. 1024 . . . - / . . . - 2003. -
5. . . . : - . - 1990. – 177 . / . . . , . . .
6. . . . 4- « » - . - 2007. -
336 .

09.09.2010

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ADVANCED TECHNOLOGY FOR UTILIZATION OF THERMAL POWER PLANT WASTES

We estimated the use of heat power wastes, identified promising directions of ash-and-slag waste recycling, and considered the existing technology of thermal power plants solid waste utilization.
ashes, ash-and-slag, waste, utilization

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