

330.322.2:622.323

Develop a methodical approach for calculated ecological discount rate in the economic evaluation of the efficiency of environmental protection investments for technological pipelines including the main risk factors according to the technical, natural and geological conditions.

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$$r = r + \sum_{i=1}^n r_i, \quad (1)$$

$$r - ; \sum_{i=1}^n r_i -$$

9% [3].

10

[7].

2011 .

2012 .

7%.

2,5%,

9,5% (7 + 2,5).

9,5 + 9 = 18,5%.

6 12%

International

[5]

(. 3).

. 1.

. 2

1.

1	2	3	4	5	6
1. , %					7
2. , %					2,5
3.					
0 – 10				0	
10 – 20				0,1	
20 – 30		0,169	1,521	0,2	
30 – 40				0,5	
40 – 50	+			0,7	1,0647
50 – 60				0,9	
60				1	
4.					
-				0	
, -	+	0,144	1,296	0,5	0,648
				1	
5.					
5%, 100- (08 2 , 10 2 , 10 2 , 70, 08 2 , 08 2 - , 117 - , 17 - , 10 2 1, 10 2 2, 10 2 1, 100-86, 75-86, 530- 89 , 20-88, 56-83)				0	
, 100- (17 , 17 1 , 13 2 , 17 - , 13 , 12 , 16)	+	0,137	1,233	0,4	0,493
(08 2 , 08 2 - , 13 2 , 08 , 17 , 17 1), (, 3 , 10 , 10, 20, 09 2 , 08 , 08)				0,8	
(17 1 , 17 - , , 22-28-88, 20-28/92 VSZ), 10,20, 10 2 , (20 , 15 , 387-90), (10, 20, 10 2, 09 2), (10, 20, 3 , 10)				1	

1	2	3	4	5	6
6.				1	
	+			0,5	0,45
		0,1	0,9	0,2	
				0	
7.				1	
	+	0,1	0,9	0,5	0,45
				0	
8.				1	
	+	0,081	0,729	0,5	0,365
				0	
9.				1	
$\rho_2 \leq 5$				1	
$5 < \rho_2 \leq 20$	+	0,063	0,567	0,7	0,399
$20 < \rho_2 \leq 100$				0,4	
$\rho_2 \geq 100$				0	
10. Кислотність гл				1	
$3 \leq \text{pH}$				1	
$3 \leq \text{pH} \leq 7$	+	0,063	0,567	0,5	0,283
$\text{pH} \geq 7$				0	
11. 200				0	
		0,062	0,558	0,5	
	+			1	0,558
12.				1	0,583
	+			1	0,583
		0,081	0,729	0,8	

. 1.

30%	(,				0,4	
	,)				0	
13.		, %					14,794
14.							12,31
15.)	(
16.		, %					12,3

4 . 1. 5

2.

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.		
1.	1	2/1	2/1	3/1	3/1	3/1	3/1	3/1	3/1	4/1	27	0,169
2.	1/2	1	1/1	2/1	2/1	3/1	3/1	3/1	3/1	3/1	23	0,144
3.	1/2	1/2	1	2/1	2/1	3/1	3/1	3/1	3/1	3/1	22	0,137
4.	1/3	1/3	1/3	1	1/1	2/1	2/1	1/1	3/1	3/1	16	0,1
5.	1/3	1/3	1/3	1/1	1	2/1	2/1	2/1	2/1	3/1	16	0,1
6.	1/3	1/3	1/3	1/2	1/2	1	1/1	1/2	2/1	1/1	10	0,063
7.	1/3	1/3	1/3	1/2	1/2	1/1	1	1/2	1/2	1/1	10	0,063
8.	1/3	1/3	1/3	1/1	1/2	2/1	2/1	1	1/1	2/1	13	0,081
9.	1/3	1/3	1/3	1/3	1/2	2/1	2/1	1/1	1	2/1	13	0,081
10.	1/4	1/3	1/3	1/3	1/3	1/1	1/1	1/2	1/2	1	10	0,062
											160	1

	1
	2
	3
	4

(W),

[7].

3,1% [8].

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6.

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1. / - :
 ,2009. - 586 .

2. / - :
 2004. - VI. - 501 .

3. , / -
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4. , /
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5. / - :
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7. , :
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Develop a methodical approach for calculated ecological discount rate in the economic evaluation of the efficiency of environmental protection investments for technological pipelines including the main risk factors according to the technical, natural and geological conditions.

Keywords: determine efficiency, discounting, environmental investments, technological pipelines, risks.

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