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dasham@ukr.net

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V -
D -

$$N = \frac{P}{V^2 + D^2}, \quad (1)$$

/ ;
 , .

4 20 / . [1,2] ,

250 .

$$K_{\text{сво.г}} = \frac{N_{\text{сво.г}}}{365}, \quad (2)$$

N -
;

$$K_{\text{сво.г}} = 250/365 = 0,68$$

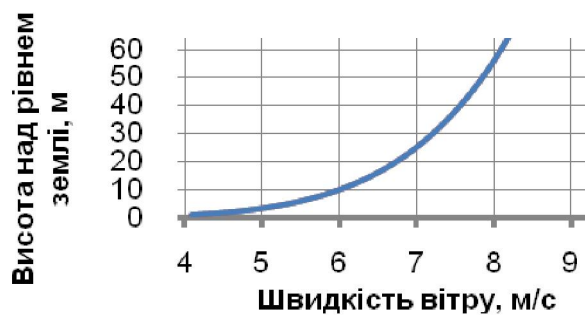
[2].

$$V_h = V_{10} \left(\frac{h}{10} \right)^{0,167}, \quad (3)$$

$V_h = 1/V_{10}$

6 / ,

10



1 -

[3,4,5]

S.

$$N = p_{cp} * S * V, \quad (4)$$

S -

$$E = \frac{m * v^2}{2}, \quad (5)$$

m = *V-

V -

$$N = \frac{m}{\Delta t} * \frac{v^3}{2}, \quad (6)$$

$$\frac{v}{\Delta t} = Q = \omega * v, \quad (7)$$

$$N = \rho * \omega * \frac{v^3}{2}, \quad (8)$$

6 / .

30 , 100 ,

10

$$E = T * N_{BEA} \int_{p=0}^{100} N(p) dp, \quad (9)$$

N-
 $\int_{p=0}^{100} N(p) dp$ -

224 , $7,2 /$, 36^2 , 8 . 30 ,
 40 , 100 , 5 , $12 /$. $12 /$,
 40 , $12 /$,
 $1.$

1.

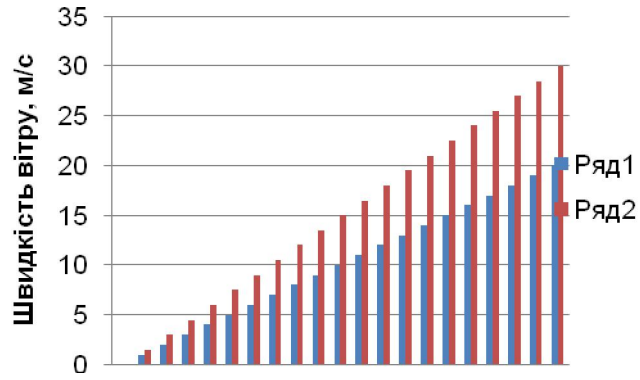
, /c	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	10	8	6	12	18	30	59	55	44	30	18	20	20	8	7	3	4	4	5	3	2

$- 12 /c$.
 55 .
 (2) $0,15.$
 $($ $)$
 $:$

2.

, /c	0	1.5	3	4.5	5	7.5	9	10,5	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30
	10	8	6	12	18	30	59	55	44	30	18	20	20	8	7	3	4	4	5	3	2

$(2),$
 $12 /c$ 167 .
 $:$
 $=167/365 =0,46$



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1-

2-

3

1.2 / ... , ... ,
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 - -2005. - 503 .
2. ... 1 / ... , ...
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3. ... -
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4. (16-19 2000). - , .2000. - .135-140.
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5. ... //
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 « ... », 2009 .,- , ,
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6. ... ,
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7. . . . - , , 2004, 238 .

8. . . .

288 . . . - : , 1999.-

09.04.11 :

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Makejeva Daria THEORETICAL JUSTIFICATION ON INCREASING EFFICIENCY OF WIND TURBINE, SETTING ON DUMPS

Abstracts

The determination of ecological and climatical coefficient of wind power installations is presented in the article. Also the possibility and expedience of its increase ratio are proved due to construction of artificial reliefs on rock dumps on which the wind power installations will be set.

wind installation, ekological climatical coefficient, wind generator efficiency, wind flow