



technologies of biogases. It is noted that high profitability of these technologies and quality of producible organic fertilizers allows to create on a mud flow more effective economy due to a production practically of free fuel, increase of the productivity of agricultural cultures, considerable improvement of ecological and social spheres of life.

500 – 1000 ,  
 0,4<sup>3</sup> [1].

. 1.

( 10 . )

7  
[1].

1

	/	% 1000	/	% 1000
1	371	100	129	100
2	280	75	91	71
5	170	46	53	41
10	131	35	39	30
25	89	24	26	20
50	76	20	21	16
100	66	18	19	15

( , ) [2].  
15 – 65 .  
(30 – 37 ) .  
(20 – 25 ) ,

30 – 40 %  
[3],

-

-

[3].

( .2).

2

-1,

-1

		-1	-1
1	, . . (2002 )	150,0	360,0
2	, /	72,0	360,0
3	, . .	360,0	1800000,0
4	,	6,0	5,0
5	,	72,0	360,0
6	, (30%),	324,0	1620,0
7	, . . , ( 2002 - 4000 . / )	1296,0	6480,0
8	,	1/8	1/18

-

-

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-

-

-

" -301 " [4]

2

-

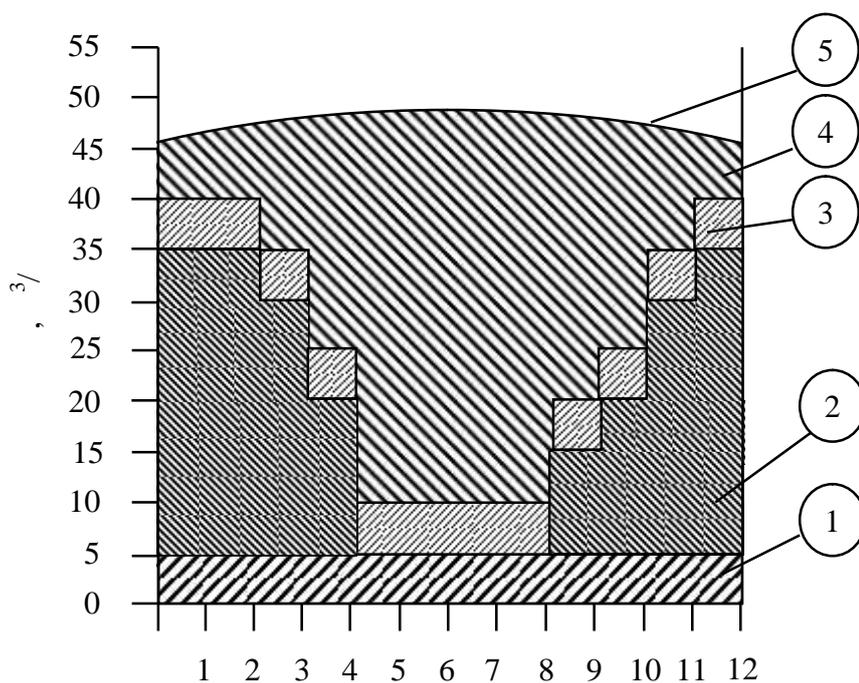
-

-

6 %.

75

. 1 [5].



. 1.

1 -

)

3 -

4 -

(

4

; 2 -

(

; 5 -

[2],

-  
-  
-  
-  
-

,

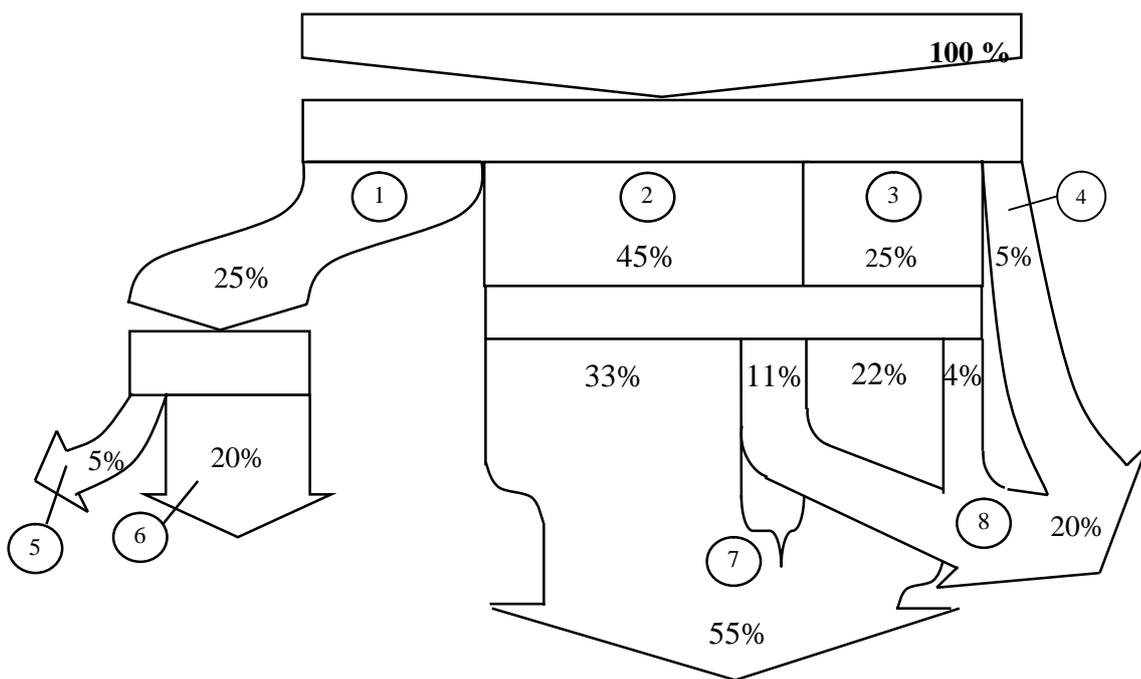
1<sup>3</sup>

1,7 - 2,2

2,5 - 3,5

[7].

. 2 [6].



. 2.

,

1 -

; 2 -

;

3 -

; 4 -

; 5 -

; 6 -

;

7 -

(

); 8 -

[8, 9]:

-  
-  
-



:  $m_{NH_3}$  - 9 -

$$m_{NH_3} = \frac{A_{NPK} \cdot P \cdot K \cdot 9}{12} \quad (6)$$

$A_{NPK}$  - ,  
 ( $A_{NPK}=2,8$  / );  $P$  -  
 , ; -  
 (  $=0,1$ );  $\gamma$  - , / ( $\gamma=80$ );  $\sigma$  -  
 ( $\sigma=10$ );  $f$  - , -  
 ( $f=10$ ).

15,9 / <sup>3</sup>, <sup>5</sup> - 1,458 / <sup>3</sup>). ( <sup>5</sup>  
 25% .  
 ( ) :

$$M = A_j \cdot b \cdot (M - M) \cdot 0,25, \quad (7)$$

:  $A_j \cdot b$  - , / (  $b=0,33$ );  
 $M$  - , / .  
 :

$$Y = x \cdot \dagger \cdot M, \quad (8)$$

:  $\gamma$  - , / ;  $\sigma$  -  
 ( $\sigma=0,5$ ).

$$= + \hat{\eta}, \quad (9)$$

: - , / ; -  
 , ; -  
 (  $=0,15$ ).

2000 – 2004

- 1.** ( . . . ) .
- : , 2003 . **2.** . . . . 2. . // " " .-
2006. - 12.- . 45-55. **3.** . . " . - 2002 .
- 4.** . . . - : , 1996 . **5. E. Dohne.**  
Stromerzeugung aus Biogas // Langtechnik, 8/9, 1980. **6. Von Wilfried Ctobol, Robert Kaufman.** Zur  
Planung von Biogasanlagen // Langtechnik, 10/11, 1980. **7.** . . . , 1988 . **8.** . . . " " , 2000 .
- 9.** . . . - : . -
- , 1982 . **10.** . . . // , 9, 1985, . 13-16.
- 11.** . . . . - : , 1985 .

15.10.06