

# Eficiența economică a sistemului hibrid izolat configurat

23-Mar-2013



preia datele din config

tiparire

locatie	dava
Altitudine [m]	100
Temp medie/an [C]	10
Radiatie[kwh/mp/zi]	3.45
cadere [m]	1.2
debit [l/s]	33
A [m/s]	4.9
k	1.7
h butuc [m]	15
obstacol echiv [m]	0.1

euro/Mwh	52	euro/CV	57	an PIF	2012
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nr CV	6
pret/w	1
% inv s	70
nr p sol in serie	1
nr serii in II	6



nr CV	1
pret/w	2
% inv h	40
nr t hidro	1



nr CV	1.33
pret/w	2.3
% inv v	70
nr t vant	1



pret/w	0.2
% inv inc	90
nr inca	1



pret/Ah	1.75
% inv stoc	90
nr bat in serie	2
nr serii in II	2



pret/w	0.7
% inv inv	90
nr inv	1



c.sarcina	1
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turb vant	LH1k-
1 P [Kw]	1.0
2 Diam [m]	2.8
3 h but [m]	6.0
4 rand [%]	0.0
5 Ue [V]	48.0
6 Utr [Kv]	0.0
7 fr [Hz]	0.0
8 P(3.5)	0.05
9 P(4.5)	0.15
10 P(5.5)	0.25
11 P(6.5)	0.4
12 P(7.5)	0.6
13 P(8.5)	0.8
14 P(9.5)	1.1
15 P(10.5)	1.4
16 P(11.5)	1.42
17 P(12.5)	1.2
18 P(13.5)	1.05
19 P(14.5)	1.0
20 P(15.5)	0.73
21 P(16.5)	0.5
22 P(17.5)	0.2

panou	2
1 P [w]	195.0
2 Ue [V]	24.0
3 Ie [A]	5.28
4 Ugol [V]	45.33
5 efic.[%]	15.27
6 lung[mm]	1580.0
7 lat [mm]	808.0
8 gros[mm]	50.0

turb hidro	ETMS-195
1 P [kw]	1.0
2 hmin [m]	0.6
3 hmax [m]	3.0
4 Dmin [l/s]	30.0
5 Dmax [l/s]	63.0
6 Ue [V]	24.0
7 frecv[Hz]	0.0
8 rand [%]	90.0

inarcator	4
1 P[kw]	1.0
2 Upmin[V]	30.0
3 Upmax[V]	47.0
4 Ipmax[A]	45.0
5 Ucc [V]	24.0
6 Ubat m[V]	9.5
7 Ubat M[V]	29.0
8 efic.[%]	94.0

baterie	swea
1 C(20h)[Ah]	150.0
2 C(5h)[Ah]	120.0
3 Tens [V]	12.0
4 lung [mm]	484.0
5 lat [mm]	171.0
6 inal[mm]	241.0
7 greut[kg]	29.0

invertor	Steca-tarom
1 P[Kw]	3.0
2 Ui min[V]	19.0
3 Ui max[V]	34.0
4 Ue[V]	230.0
5 THD [%]	2.0
6 frecv[Hz]	50.0
7 rand [%]	94.0

C m [kwh/zi]	18.45	E m [kwh/zi]	16.82	Asig max	0.91	C bat [kvah]	5.76	I. e. [zile]	0.31
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Energie [MWh]/an	solara	1.47	hidro	3.06	vant	2	E.cc prod. / an [Mwh]	6.53	E.ca livrata / an [Mwh]	6.14
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cost investitie [euro]	1671	5000	3286	222	1167	2333	Cost inv. [euro]	13679
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cost/kwh produs in 15 ani	0.114	0.109	0.164	euro / kwh livrati	0.223
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Termen de recuperare fara CV [ani]	42.84	Termen de recuperare cu CV [ani]	12.46
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calculate pe 15ani (cf. L220/2008)

O.Capatina

inapoi la config