



ΔΑΦΝΗ  
ΔΙΚΤΥΟ ΔΕΙΦΟΡΩΝ  
ΝΗΣΩΝ ΑΙΓΑΙΟΥ

( 3 )

μμ « EFFECT » . .

μ

μ

μ μ μ μ

μ

μ μ μ μ EFFECT

2013

μ - μ :

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- ( μ μ -professional cluster).  
- μ μ μ .

## 1.4

### 1.4.1. , μ

μ - μ μ μ 2020. ,

« 20-20-20» :

- 20% μ μ , μ
- 1990. 20% μ μ .
- 20% . . .

2007

μ μ μ « μ μ »  
2009 μ μ μ 30% μ 2020 . . . μ μ  
μ μ μ μ μ μ μ μ

20-20-20

μ μ μ μ ,  
2020 μ . μ  
μ μ μ « » μ  
μ μ μ μ 417.000 20%,  
μ μ 20% 400.000 ( 2020,  
2010)

### 1.4.2.

μ μ μ .  
μ μ μ 2020 . . . μ μ  
μ μ , μ μ μ 2011, μ  
μ μ μ 20%  
2020. :

- μ μ μ .
  - μ μ μ .
  - μ μ μ .
  - μ μ μ .
- :
- μ μ μ .
  - μ μ μ .
  - μ μ μ .

- μ .
- μ .
- μ .

1.4.3.

25 2012, 2012/27/EU .

μ

, μ 2020 μ 20% .

μ μ μ

μ 2020 ( μ 2010).

1.4.4.

1.4.4.1.

- μ . . . μ :
- 1: μ μ
  - 2: μ , μ
  - 3: μ .
  - 4: μ .

1.4.4.2.

- μ :
- μ - μ μμ .
  - μ - μμ .
  - μ - μ μμ .
  - μ μ .
  - μ .
  - .
  - .

1.4.5.

- μ .
- μ : μ μ
- μ 2006/32/
  - 2012/27/ μ μ (2004/18/ 2004/17/ ) .







2013),

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1.5.2.3.

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2012/27/

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2012

18 μ

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2020,

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1.5.3.

μ





- μ , ( μ μ μ ) .
- μ μ .

1.6.2.2.

• Με βάση το Άρθρο 53, ΠΔ 60/2007 (Παράρτημα VI) & Άρθρο 4, ΕΚΠΟΤΑ τ μ μ :

- :
- : μ μ
- : μ μ .
- .
- μ « μ ».

1.6.2.3.

53, 60/2007 & 4, ,

- μ μ μ μ
- μ μ μ ,
- « μ ».

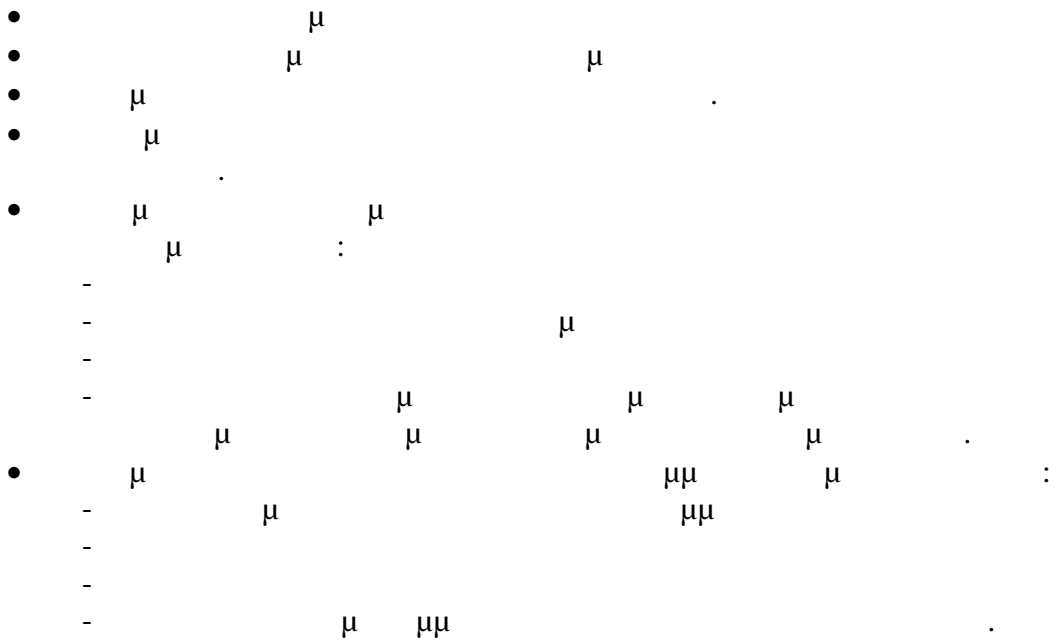
1.6.3. μμ :

- μ μ μ μ . Η μμ μ μ μ μ
- . μ , μμ μ .
- μ μ , .
- μ μ μ μ μ μ μ μ .

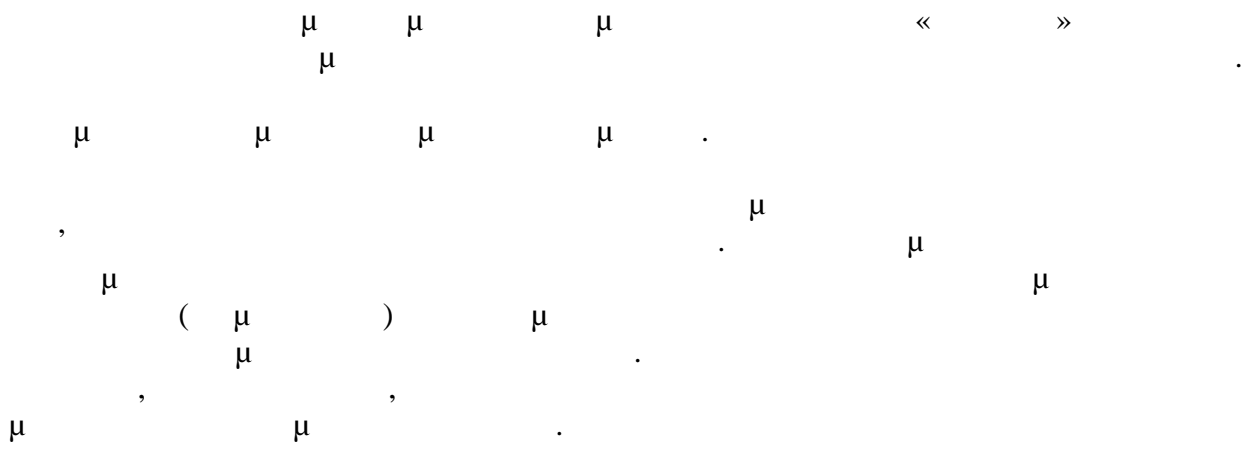
1.6.4. μ

- $\frac{\mu}{2}$  ( 43, 60/2007 & 7, ) :  
- μ μ  
- μ μ μ μ μ μ μ μ μ μ  
• \_\_\_\_\_ ( 46, 60/2007):





1.6.9.







- ( , ) .
- . ( ISO14001 ISO 50001 )
- , m<sup>2</sup>,
- . ( ) .
- LCC LCA.
- ISO 50001
- .

2.1.1: -

1	
μ	
	( + )
μ	B ( )
μ	μ

2.1.1.2.

- μ
- μ
- μ
- μ
- μ
- μ
- μ
- μ
- μ / (benchmark) kWh, kWh/ m<sup>2</sup> kWh/m<sup>2</sup>\*a.



$\mu$	$\mu$ U- [W/m <sup>2</sup> K]			
	$\mu$	$\mu$	$\mu$	$\mu$
$\mu$ ( )	0,50	0,45	0,40	0,35
$\mu$	0,60	0,50	0,45	0,40
$\mu$ (pilotis)	0,50	0,45	0,40	0,35
$\mu$ $\mu$ $\mu$ $\mu$ $\mu$	1,20	0,90	0,75	0,70
$\mu$ $\mu$ $\mu$ $\mu$	1,50	1,00	0,80	0,70
$\mu$ ( , $\mu$ )	3,20	3,00	2,80	2,60
$\mu$	2,20	2,00	1,80	1,80

$\mu$  ,  $\mu$  ,  $\mu$   $\mu$   $\mu$   $\mu$  (Um)  
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$  U  
 $\mu$  ,  $\mu$  .  
 2.1.3.  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$  A/V  
 ( / ).

2.1.3:  $\mu$  -  $\mu$   $\mu$   $\mu$   $\mu$   $U_{m,max}$

$[m^{-1}]$ / A/V	$\mu$ $\mu$ $\mu$ $\mu$ $\mu$ $U_{m,max}$ [W/(m <sup>2</sup> .K)]
0,2	1,26 1,14 1,05 0,96
0,3	1,20 1,09 1,00 0,92
0,4	1,15 1,03 0,95 0,87
0,5	1,09 0,98 0,90 0,83
0,6	1,03 0,93 0,86 0,78
0,7	0,98 0,88 0,81 0,73
0,8	0,92 0,83 0,76 0,69
0,9	0,86 0,78 0,71 0,64
1,0	0,81 0,73 0,66 0,60

$\mu$   $\mu$   $\mu$  :

2.1.4:  $\mu$  -  $\mu$

1	
$\mu$	$\mu (U - \mu)$
	W/(m <sup>2</sup> K)
$\mu$	2.1.2
$\mu$	$\mu$

2.1.5:  $\mu - \mu$

2	
$\mu$	$\mu (U_m)$
	W/(m <sup>2</sup> K)
$\mu$	$\mu$ 2.1.3
$\mu$	$\mu$

2.1.2.  $\mu$   $\mu$   
 $\mu$   $\mu$  /  $\mu$   
 $\mu$  ,  $\mu$   $\mu$   $\mu$   
 $\mu$  ,  $\mu$   $\mu$  .

$\mu$  /  $\mu$  ,  $\mu$  ,  $\mu$   $\mu$   
 $\mu$  .

2.1.3.1.  $\mu$   $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 CEN Keymark.  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

$\mu$   $\mu$   $\mu$   $\mu$  .  
 $\mu$   $\mu$   $\mu$   $\mu$  .

35mm,  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$  CE.

2.1.3.2  $\mu$   
 $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 (COP)  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 (EER)  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   
 $\mu$  ,  $\mu$   $\mu$  .

$\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$  ,  $\mu$   $\mu$   $\mu$   
 $\mu$  (  $\mu$  CE)  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$





2.1.7:

	$\mu$ (kW)	$\mu$ (°C)	(%)	$\mu$ (°C)	$\mu$ (%)
	4-400	70	84+2.logPn	50	80+3.logPn
$\mu$ $\mu$	4-400	70	87.5+1.5.logPn	40	87.5+1.5.logPn
$\mu$ $\mu$	4-400	70	91+1.logPn	30	97+1.logPn

Pn=  $\mu$   $\mu$  kW.

2.1.3.3.

$\mu$  (Split) /  $\mu$

$\mu$  2010/30/  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$  12400/1108/  
2301/ /14.10.2011,  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$  (split)  $\mu$   
 12 kW  $\mu$   $\mu$   $\mu$  :

- $\mu$
- $\mu$
- $\mu$   $\mu$  (SEER).
- $\mu$   $\mu$  (SCOP).

$\mu$  SEER SCOP

1.2.8:  $\mu$  -  $\mu$  ,  $\mu$

	SEER	SCOP
A+++	SEER 8.50	SCOP 5.10
A++	6.10 SEER < 8.50	4.60 SCOP < 5.10
A+	5.60 SEER < 6.10	4.00 SCOP < 4.60
A	5.10 SEER < 5.60	3.40 SCOP < 4.00
B	4.60 SEER < 5.10	3.10 SCOP < 3.40
C	4.10 SEER < 4.60	2.80 SCOP < 3.10
D	3.60 SEER < 4.10	2.50 SCOP < 2.80
E	3.10 SEER < 3.60	2.20 SCOP < 2.50
F	2.60 SEER < 3.10	1.90 SCOP < 2.20
G	SEER < 2.60	SCOP < 1.90

1.2.8:  $\mu$  -  $\mu$

	$\mu$		$\mu$	
	EER $\mu$	COP $\mu$	EER $\mu$	COP $\mu$
A+++	4.10	4.60	4.10	3.60
A++	3.60 EER <	4.10 COP <	3.60 EER <	3.10 COP <
	4.10	4.60	4.10	3.60
A+	3.10 EER <	3.60 COP <	3.10 EER <	2.60 COP <
	3.60	4.10	3.60	3.10



A	2.60 3.10	EER <	3.10 3.60	COP <	2.60 3.10	EER <	2.30 2.60	COP <
B	2.40 2.60	EER <	2.60 3.10	COP <	2.40 2.60	EER <	2.00 2.30	COP <
C	2.10 2.40	EER <	2.40 2.60	COP <	2.10 2.40	EER <	1.80 2.00	COP <
D	1.80 2.10	EER <	2.00 2.40	COP <	1.80 2.10	EER <	1.60 1.80	COP <
E	1.60 1.80	EER <	1.80 2.00	COP <	1.60 1.80	EER <	1.40 1.60	COP <
F	1.40 1.60	EER <	1.60 1.80	COP <	1.40 1.60	EER <	1.20 1.40	COP <
G	< 1.40		< 1.60		< 1.40		< 1.20	

2.2.

Energy Star (Energy Star).  
LCD  
Energy Star  
www.eu-energystar.org  
ENERGY STAR  
Energy Star  
5.0.

1.2.9:

1	Watt (W)
(Energy Star)	:
$E_{TEC} = (8760/1000) (P_x \cdot T_x + P_{watt} \cdot T_x + P_{\mu} \cdot T_{\mu})$	(TEC). $\mu$
Energy Star	Energy Star

<sup>1</sup> [http://ec.europa.eu/environment/gpp/eu\\_gpp\\_criteria\\_en.htm](http://ec.europa.eu/environment/gpp/eu_gpp_criteria_en.htm)

	<p style="text-align: center;">μ μ</p> <p style="text-align: center;">μ</p> <p style="text-align: center;">μ (standby),</p> <p>μ (mode) « » μ μ</p> <p>μ</p>
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**2.3. μ μ**

2.3.1. μ

μ

μ . μ , μ μ μ

, μ , μ .

μ μ μ μ μ μ μ μ

μ μ μ μ μ μ μ μ

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μ :

2.3.1.1. μ

- μ μ μ μ μ μ μ μ
- μ μ /μ μ μ μ μ μ μ
- μ :
- μ μ μ μ μ μ μ μ
- μ μ μ μ μ μ μ μ
- μ μ μ μ μ μ μ μ
- μ μ μ μ μ μ μ μ

2.3.1.2.

μ :

μ μ

2.3.1.3.

- μ μ μ μ μ μ μ μ



1	
	μ
	μ μ
	μ μ μ μ
	μ μ μ μ , ,
	μ μ μ
	μ μ μ
	Ra>=90
	μ μ μ μ
	μ μ μ μ
	μ μ μ μ 15W T8
	μ
	μ μ μ
	μ LED μ
μ μ μ μ μ	
μ μ μ μ μ	
μ	
μ Ra>=90 ( μ μ )	
μ	
μ ( . . μ μ )	

1.2.11: μ μ / μ - μ

2	
μ	μ
μ	μ ( )
μ	μ μ μ , μ
	μ
	μ
	μ μ μ μ , μ
	μ μ μ μ , μ
	μ ( )
	2000
	6000



- LEDs
- LED
- LED
- ( . . . 1194/2012).
- (Lamp Lumen Maintenance Factor - LLMF)
- (LSF).
- 
- 

1.2.12:  $\mu$  /  $\mu$  -  $\mu$  ( )

1		
$\mu$	$\mu$	
$\mu$	$\mu$ (lm/W)	
$\mu$	(wattage range) $\mu$ : $\mu$ (Ra<60):	
$\mu$	$\mu$	$\mu$
<b>(W)</b>	<b><math>\mu</math> (lm/W)</b>	<b><math>\mu</math> (lm/W)</b>
$W \leq 45$	$\geq 62$	$\geq 60$
$45 < W \leq 55$	$\geq 80$	$\geq 70$
$55 < W \leq 75$	$\geq 91$	$\geq 82$
$75 < W \leq 105$	$\geq 105$	$\geq 95$
$105 < W \leq 155$	$\geq 114$	$\geq 107$
$155 < W \leq 255$	$\geq 125$	$\geq 120$
$255 < W$	$\geq 138$	$\geq 133$
$\mu$	$\mu$ (Ra<80)	
$\mu$	$\mu$	$\mu$
<b>(W)</b>	<b><math>\mu</math> (lm/W)</b>	<b><math>\mu</math> (lm/W)</b>

1			
	$W \leq 55$	$\geq 85$	$\geq 80$
	$55 < W \leq 75$	$\geq 100$	$\geq 85$
	$75 < W \leq 105$	$\geq 105$	$\geq 90$
	$105 < W \leq 155$	$\geq 110$	$\geq 95$
	$155 < W \leq 255$	$\geq 100$	$\geq 92$
	$255 < W$	$\geq 92$	$\geq 100$
	$\mu$	$\mu$	(Ra $\geq$ 80)
	$\mu$	$\mu$	$\mu$
	(W)	(lm/W)	(lm/W)
	$W \leq 55$	$\geq 85$	$\geq 65$
$55 < W \leq 75$	$\geq 94$	$\geq 70$	
$75 < W \leq 105$	$\geq 95$	$\geq 75$	
$105 < W \leq 155$	$\geq 96$	$\geq 75$	
$155 < W \leq 255$	$\geq 97$	$\geq 80$	
$255 < W$	$\geq 98$	$\geq 80$	
$\mu$			

2.4.

2008

2.4.1.

2009/33/ 69  
 . 3982 2011, 4 . μ μ ( 5  
 2009/33/ ), :

- O , μ μ , μ  
 66, μ μ , μ  
 , μ . (μ  
 μ ).

- μ :  
 - μ CO<sub>2</sub>  
 - μ NO<sub>x</sub>, NMHC μ μ .

μ μ , μ μ , μ  
 μ μ μ μ μ , μ  
 :

1: μ μ

μ	μ
	36 MJ/
	32 MJ/
/	33–38 MJ/ m <sup>3</sup>
	24 MJ/
	21 MJ/
	33 MJ/
μ μ	32 MJ/
	11 MJ/Nm <sup>3</sup>

2: μ μ ( μ 2007)

CO <sub>2</sub>	NO <sub>x</sub>	NMHC	μ
0,03–0,04EUR/kg	0,0044 EUR/g	0,001 EUR/g	0,087 EUR/g

3: μ μ , μ μ







3.1 -

EFFECT

- Transnational EEPP Procedures Catalogue,
- EEPP Recommendation Paper
- Index for Demand Side Swot Analysis
- Common Criteria

3.2

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- .....
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(Local Focus Groups)

1 μ  
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2 μ  
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1 μ  
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2 μ  
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## 4.1. μ

/ μ	2004/18/
μ	μ μ μ ,
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2004L0018:20080101:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2004L0018:20080101:EL:PDF</a>

/ μ	2004/17/
μ	μ μ μ μ
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2004L0017:20080101:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2004L0017:20080101:EL:PDF</a>

/ μ	2012/27/
μ	2010/30/ , 2009/125/ 2004/8/ 2006/32/
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:315:0001:0056:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:315:0001:0056:EL:PDF</a>

/ μ	2006/32/
μ	93/76/ .
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:114:0064:0064:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:114:0064:0064:EL:PDF</a>

/ μ	2009/125/
μ	μ μ μ μ
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:285:0010:0035:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:285:0010:0035:EL:PDF</a>

/ μ	2010/30/
μ	μ μ μ μ μ μ
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:153:0001:0012:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:153:0001:0012:EL:PDF</a>

/ μ	2010/31/
μ	
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:153:0013:0035:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:153:0013:0035:EL:PDF</a>

/ μ	33/2009//
μ	μ μ
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:120:0005:0012:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:120:0005:0012:EL:PDF</a>

	<a href="#">L:PDF</a>
/ μ	μ ( ) . 1222/2009 ( μ μ 2011/228/E , 2011/1235/E ).
μ	μ μ μ μ
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:342:0046:0058:EL:PDF">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:342:0046:0058:EL:PDF</a>
/ μ	μ ( ) . 106/2008 ( μ μ 2009/789/E , 2009/489/E , 2009/347/E ).
μ	μ μ μ μ ( )
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:039:0001:01:el:HTML">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:039:0001:01:el:HTML</a>
/ μ	89/106/
μ	μ μ , μ μ
.	<a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:31989L0106:el:HTML">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:31989L0106:el:HTML</a>
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