

ENERGIE, PUISSANCE

AF 1999* 1) $P = \frac{Q}{t}$ $P \approx 56,5 \text{ kW}$
 2) $\eta = \frac{P}{P_1} \times 100$ $\eta \approx 75\%$

AF 2000 $\frac{P_1 - P_2}{P_1} \times 100 \approx 57\%$

AF 2002 $P = \frac{Q}{t}$ $P \approx 1,075 \text{ kW}$

AF 2003* $m(\text{gof}) = 48 \times \frac{10}{100} = 4,8 \text{ kg}$

$m(\text{PS}) = 48 - 4,8 = 43,2 \text{ kg}$

$m(\text{nitrogène}) = \frac{m(\text{PS})}{0,8} \approx 54 \text{ kg}$

AF 2005 $E = Pt$ $E \approx 29,85 \text{ kW}$
 $(1,075 \cdot 10^5 \text{ J})$

AF 2006* $\frac{Q_1 - Q_2}{Q_1} \times 100 \approx 36\%$

$\eta = \frac{P_2}{P_1} \approx 9,16 (16\%)$

AF 2007 1) $P = 2595 \text{ W} (\dots + \dots)$
 2) $P = 259,5 \text{ W} (\times 10\%)$
 3) $E = Pt$ $E = 55,4 \text{ kWh}$

B 1992 $\frac{Q - Q'}{Q} \times 100 = 69\%$

B 1996 $E = Pt$

Coût $E \cdot 0,076 = 1892,4 \text{ €}$

B 1994* $m(\text{éthère}) = \frac{m(\text{PVK})}{0,8}$
 $\approx 142,85 \text{ g}$

B 1998* $E = Pt$
 Coût $E \cdot 0,1 = 18,1 \text{ €}$

$m = \frac{120}{0,8} = 149 \text{ g}$

B 1999* 1) $E = E \times \frac{30}{100} \approx 65,5 \text{ kJ}$
 2) $t = \frac{E}{P}$ $t \approx 18,2 \text{ min}$

SCBH 199 $P = \frac{E}{t}$ $P \approx 241 \text{ W}$

SCBH 1994 $\eta = 12,6\%$

SCBH 1996* $\eta = \frac{Q}{Q_1} \times 100 \approx 73,5\%$

SCBH 1997 $E = P_0 \cdot t (\eta = \frac{P_0}{P})$ $E = 459 \text{ MJ}$

SCBH 1998 $P = \frac{E}{t}$ $70,7 \text{ W}$

SCBH 1999 $E = Pt$ $E \approx 1,6 \text{ kWh}$

SCBH 2000 1) $P = \frac{PEI \frac{\text{m}}{\text{M}}}{t}$ $25,87 \text{ kW}$ 2) $\eta = \frac{24}{25,87} \approx 92,5\%$

TP 1993 $P = \frac{E}{t}$ $7,63 \text{ kW}$ TP 1997 $\frac{Q_1 - Q}{Q_1} \times 100 \approx 63\%$

TP 1998* 1) $P = \frac{E}{t}$ $158,8 \text{ MW}$

2) $P' = P \times 0,9 \times 0,96 = 137,3 \text{ kW}$ TP 1999 $t = \frac{Q}{P}$ $57,2 \text{ h}$

TP 2000 $E = P \cdot t$ 1296 MJ TP 2001 $P_a = \frac{P}{\eta}$ $15,635 \text{ kW}$

B 2005 $P = \frac{E}{t}$ $P = 145 \text{ W}$

B 2006 $Q = m \cdot c \cdot \Delta \theta$ $Q = 50160000 \text{ J}$
 $(13,93 \text{ kWh})$

$Q' = \frac{Q}{\eta}$ $Q' \approx 34,82 \text{ kWh/jour}$

B 2007 $P \cdot t \times 0,0765 = 54,6 \text{ €}$

B 2008 $E = 5224 \text{ kWh}$

EB 2003* $\eta = \frac{P_u}{P_a} \approx 54\%$

EB 2004 1) $P = \frac{E}{t}$ $P \approx 1,47 \text{ kW}$

2) $P_e = \frac{P}{0,8}$ $P_e \approx 1,84 \text{ kW}$

EB 2007 $E = Pt$ $E = 5,54 \cdot 10^5 \text{ J}$

EB 2008 $P = \frac{E}{t}$ $P = 2,83 \cdot 10^5 \text{ W}$
 (5 h)

EEC 199 $m(\text{HA}) = 13,05 \cdot 10^3 \text{ t}$

EEC 1996 $P = \frac{E}{t}$ $P = 484 \text{ W}$

EEC 1997 $P = \frac{E}{t}$ $P = 1,18 \text{ kW}$

EEC 2000 $P = \frac{E}{t}$ $P \approx 2,616 \text{ kW}$

EEC 2001 $\frac{1,449 - 1}{1,449} \approx 21\%$

EEC 2003 $P = \frac{E}{t}$ $P \approx 24,2 \text{ W}$

EEC 2005* 1) $P = \frac{E}{t}$ $P \approx 13,9 \text{ W}$
 2) $E = P \cdot t$ $E \approx 120 \text{ kWh}$
 $(432 \cdot 10^6 \text{ J})$

TP 2006

$Q_1 = \frac{Q_2}{\eta}$ $99,7 \text{ MJ}$

$P = \frac{Q_2}{t}$ $27,6 \text{ kW}$

$\times \frac{Q_1}{Q} \times 100 \approx 9\%$