**91% of households in the U.S own a dryer**

1. “Whereas **75 percent of households** in the US own a clothes dryer”

<http://www.greenamerica.org/pubs/realgreen/articles/dryer.cfm>

1. For clothes dryers (Figure 10), the percent of households is **45 percent for the lowest income level and about doubles to 92 percent** for the highest income level.



<http://www.eia.doe.gov/emeu/recs/appliances/appliances.html>

 45, 65, 79, 87, 92, **mean =** **73.6%**

1. where only 45% of households own a tumble dryer, compared with **79%** in the US

**Other countrys dryer ownership**

<http://www.bbc.co.uk/news/magazine-11417677>

UK only **45%** of households own a tumble dryer

<http://www.bbc.co.uk/news/magazine-11417677>

Italy only **4%** of households have a tumble dryer

<http://www.allvoices.com/contributed-news/6973028-clothes-lines-versus-electric-tumble-dryers>



**The carbon output for an average tumble dryer**

An average tumble dryer runs at over 3.5 kWh per cycle

Using our grid electricity carbon conversion factor of 0.545 kg CO2 emitted per kWh

The carbon output for one cycle is:

* 1. **x 0.545 = 1.90 kg CO2 per cycle.**

[http://www.dothegreenthing.com/wiki/display/WIKI/Don't+Use+a+Tumble+Dryer](http://www.dothegreenthing.com/wiki/display/WIKI/Don%27t%2BUse%2Ba%2BTumble%2BDryer)

**How many Kg and tones of Co2 are created every year by tumble drying in the U.S?**

On the avarage 300 cycles a year

U.S Housing units**,** 2009,129,969,653

<http://quickfacts.census.gov/qfd/states/00000.html>

$1.90×300=570 Kg of co$**2 per house hold a year**

129,969,653$×0.75=$ 97,477,240 (households that use tumble dryers)

$97,477,240 ×570=55,562,026,657 Kg of co$**2 a year**

**The U.K?**

On the avarage 300 cycles a year

UK Households**,** 2004 estimate,25,000,000

<http://www.statistics.gov.uk/hub/index.html>

$1.90×300=570 Kg of co$**2 per house hold a year**

25,000,000 $×0.45=$ 11,250,000 (households that use tumble dryers)

$11,250,000 ×570=6,412,500,000 Kg of co$**2 a year**

 $6,412,500$ tones$ of co$**2 a year**

Running a tumble drier, £36 a year - Scottish and Southern Energy

= £405,000,000

$Italy$**?**

On the avarage 300 cycles a year

Italys Households**,** 2005 estimate,23,300,000

<http://www.istat.it/dati/catalogo/20050912_01/testointegrale.pdf>

$1.90×300=570 Kg of co$**2 per house hold a year**

23,300,000 $×0.04=$ 11,250,000 (households that use tumble dryers)

$11,250,000 ×570=,932,000 Kg of co$**2 a year**

 $932 tones of co2 a year$

$Netherlands$?

On the avarage 300 cycles a year

Dutch Households**,** 2002 estimate,6,940,000

<http://www.mnp.nl/mnc/i-en-0001.html>

$1.90×300=570 Kg of co$**2 per house hold a year**

6,940,000 $×0.62=$ 4,302,800 (households that use tumble dryers)

$4,302,800×570=2,452,596^{'},000 Kg of co$**2 a year**

 $2,452,596$ tones$ of co$**2 a year**

**EU?**

Taken across the EU and assuming 40% ownership (low estimate in a growing market) the resulting figure for the EU 15 (excluding less developed partners) is ... 74.6 million tonnes of CO2

[**http://www.rotaire.com/environmental-case.htm**](http://www.rotaire.com/environmental-case.htm)

**U.S =** $55,562,027$ tones$ of co$2 a year

**U.K =** $6,412,500$ tones$ of co$2 a year

**ITALY =** $932 tones of co2 a year$

**NL =** $2,452,596$ tones$ of co$2 a year

**EU =** 74,600,000 tones$ of co$2 a year