

Green Power to the People! Energy democracy in Poland

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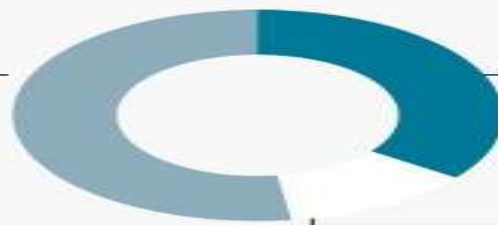
www.demokracjaenergetyczna.pl

Winning society's approval? **Not really**

Opinion of citizens about nuclear power plant in Poland

Gdyby poproszono Pana(ią) o zajęcie jednoznacznego stanowiska w sprawie budowy elektrowni jądrowych w naszym kraju, to czy był(a)by Pan(i) za czy też przeciw?

Sprzeciwiał(a)bym się budowie
52%



Opowiedział(a)bym się za budową
35%

Nie potrafię zająć stanowiska w tej sprawie
13%

W porównaniu z sondażami sprzed kilku lat widać spadek liczby zwolenników energetyki jądrowej.

Against NPP

For NPP

39%

XI 1987

30%

46%

XI 1989

20%

58%

VI 2006

25%

45%

VII 2008

38%

42%

II 2009

48%

40%

IX 2009

50%

39%

IX 2010

46%

53%

IV 2011

40%

52%

III 2013

35%

Source: CBOS

Infografika PAP

Society vs. energy monopoly

- 😞 High costs of energy (especially heating) – households budgets' share >10% (EU: 3–5%); over 1 million families within energy poverty category
- 😞 PEP2030 oriented on and based on data/priorities of corporations, with very little/no attention given to consumers/prosumers
- 😞 Coalbed methane – 1 billion m³/year goes to atmosphere + threatens lives of coal-miners
- 😞 Media manipulated by corporations' lobby and government (ca. 100 mln Euro/year spent on adds);
- 😞 6000 MW coal to be closed due to ageing and EU legislation 😊 -->

Democratic energy sector

- 😊 Cheaper options available—e.g. 20mln LED bulbs equals 1 nuke block of 1500MW—100 times cheaper!
- 😊 lower bills – increase of EE of Poland to current EU-15 level
- 😊 Increased security – local/decentralised EE i REN
- 😊 Local and sustainable jobs (incl. rural areas)
- 😊 UE support for EE/REN investments (MFF 2014-2020)
- 😊 Improved living conditions (incl. miners) and environment, SME development
- 😊 linking cities/regions in Poland and in Europe (sister cities, Covenant of Mayors)

http://en.wikipedia.org/wiki/Energy_democracy

In the next 20 years, one-third of America's nuclear power plants will reach the end of their power-producing lives.



Replace
1 nuclear plant



Get efficient
1.6 million homes

**ENERGY
CORPOCRACY** VS.

**ENERGY
DEMOCRACY**



Cost: \$41 billion



Cost: \$20 billion



Jobs created: 2,400



Jobs created: 220,000

You want to save money and create jobs? Get efficient.

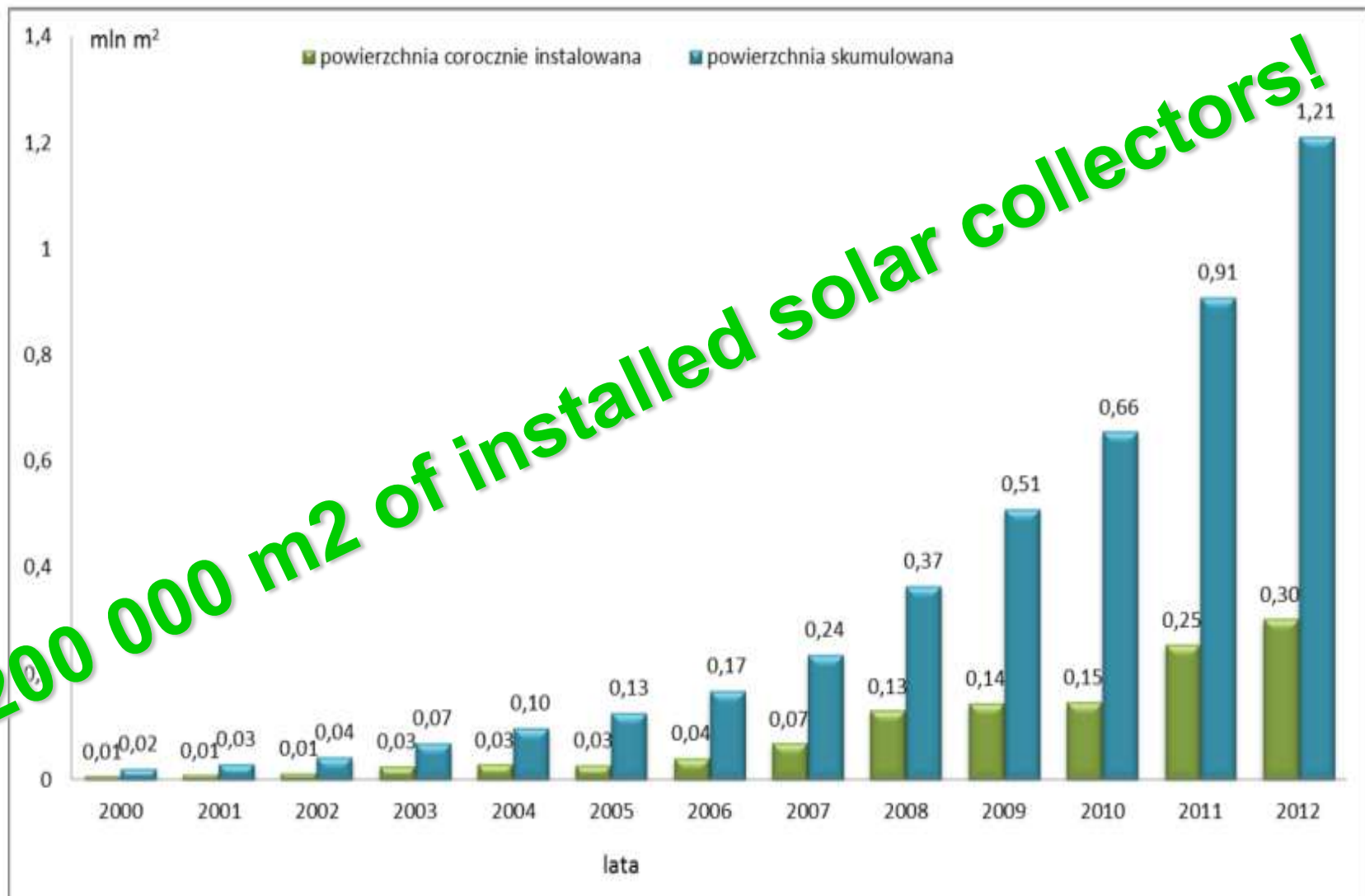
For half the cost of replacing one nuclear power plant, we can retrofit 1,600,000 homes for energy efficiency and create 220,000 new jobs – that's 90 times more jobs than you'd get from a power plant replacement.

Wind energy in Poland



Map source: Polish Wind Energy Association

Solar Age in Poland?



Data source: Institute for Renewable Energy

Photovoltaic panels of 33 km x 33 km would produce 100% of energy consumed in 2014 in Poland! Price: Two times cheaper for prosumers than consumer would pay for nuclear!

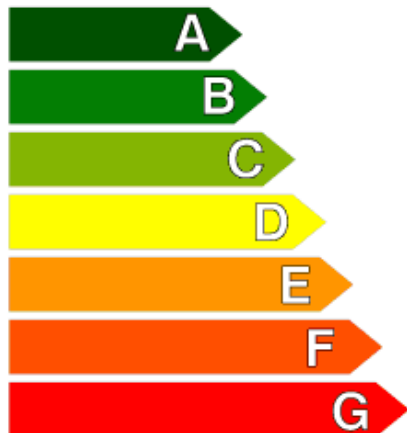


Energy

Washing
machine

Manufacturer
Model

More efficient



Less efficient

Energy consumption
kWh/cycle

1.75

(based on standard test results for 60°C
cotton cycle)

Actual energy consumption will depend
on how the appliance is used

Washing performance

A B C D E F G

A: higher G: lower

Spin drying performance

A B C D E F G

A: higher G: lower

Spin speed (rpm)

1400

Capacity (cotton) kg

5.0

Water consumption

5.5

Noise
(dB(A) re 1 pW) Washing
Spinning

5.2

7.6

Further information contained in
product brochure



Green appliances, houses, vehicles

Green economy

Green jobs

Imagine...

Imagine fuel without fear. No climate change. No oil spills, dead coal miners, dirty air, devastated lands, lost wildlife.

No energy poverty. No oil-fed wars, tyrannies, or terrorists. Nothing to run out. Nothing to cut off. Nothing to worry about.

Just energy abundance, benign and affordable, for all, for ever.

Amory Lovins in *Reinventing Fire*

**Green
economy and
energy
democracy
stupid! 😊**



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Let's do it - together!