NEGAWATTS

AS BART VAN DER MEERSSCHE CALLS THEM...

Experiences while increasing home efficiency Markus Gebhard, Karlsruhe elektro:camp <<2013:04>>

OUR HOME

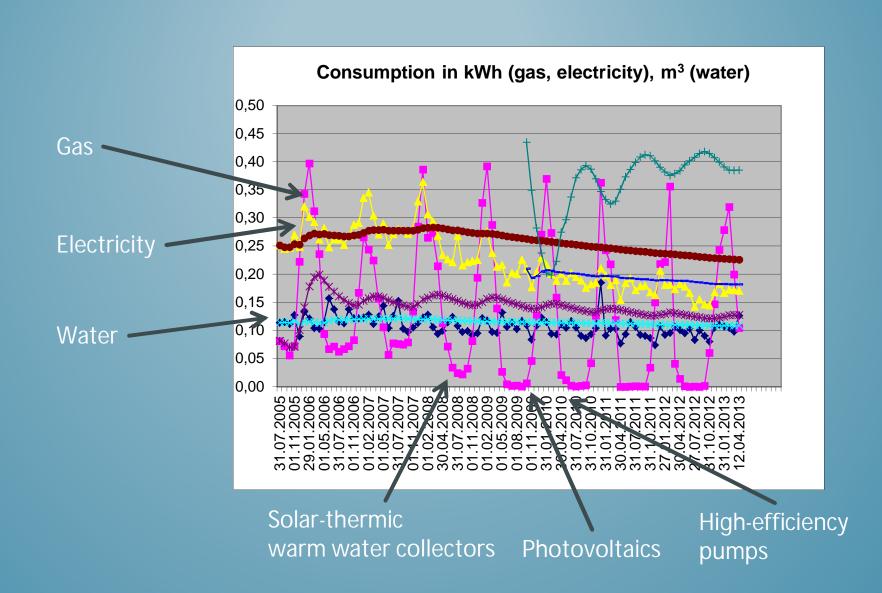
Semi-detached house in Karlsruhe Insulated, but no explicit "energy standard"



© Google Maps

ENERGY CONSUMPTION

"Measuring" period 8 years – always at months end



SOLAR-THERMIC WATER HEATING Does it work? Yes. Is it efficient? No. Why? 8000€ investment for 20€ monthly savings



Source: www.buderus.de

PHOTO-VOLTAICS

German subsidy policy. No comment. Long term – best investment as more electricity is produced than consumed*



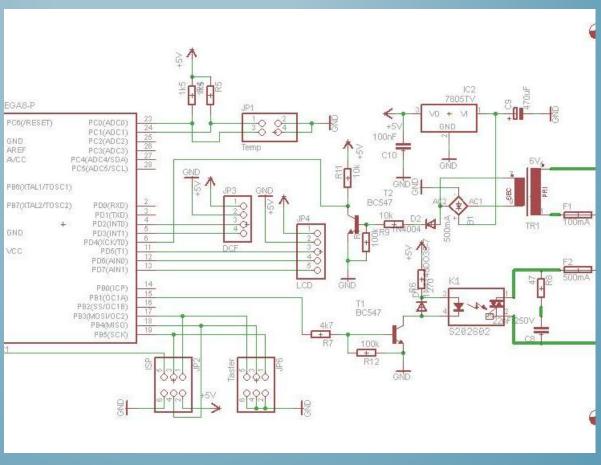
^{*}waiting for payable storage

HIGH-EFFICIENCY PUMPS Get rid of old >70W heating and water pumps (don't know why others are still sold...)



PUMP CONTROL

Convenience function for warm water supply – temperature regulated circulation



https://github.com/gebhardm/energyhacks/tree/master/TempGuard