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The mother of invention

What kind of energy uses a sun generator.

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The SUN

The sun generator

Sun from a standard PV



Makes 230V AC directly

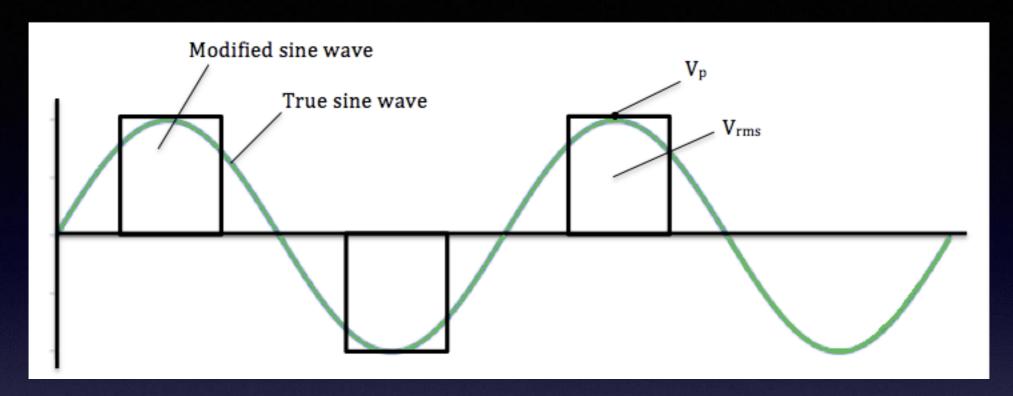




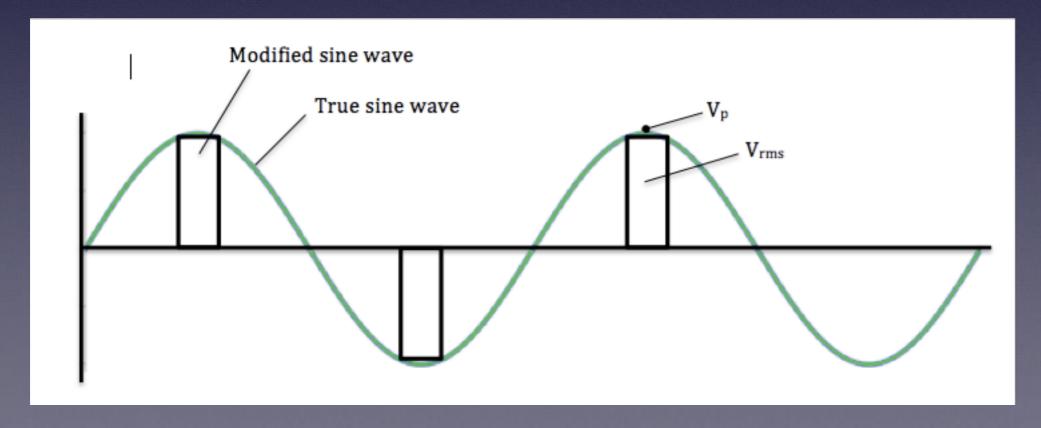
The sun generator are not



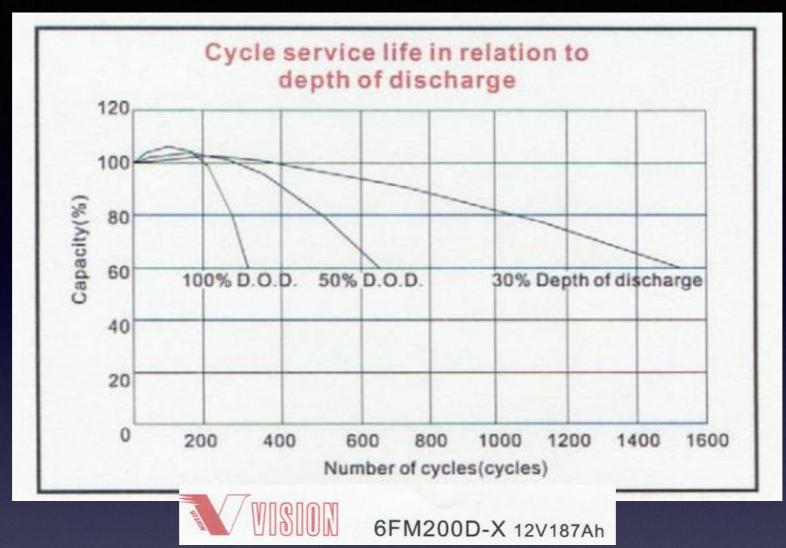
How a sun works generator



If less energy than demand



Why avoid batteries



- Do not talk about price on the battery, but about the price of storing the energy at the battery.
- Rember the temperatur you got, higher temperatur, less live time at the battery.
- The you can calculate the kwh/€

What does it cost to store energy in batteries

- 12V/100Ah 186€
- After 500 time with 50% discharge we have 80%
- 12V * 50A = 600wH * 500 time = 300Kwh
- 186€ / 300Kwh = 0.62 € = 4,65 Kr/kwh
- If we are in Africa or other hot areas, 33C instate of 25C the price is 0.62 € * 2 = 1,24 €

The price of electricity directly from solar panel

- 250W 133€
- After 20 years its 80%
- 0.250kW * 800kWh = 200kwh*20 year = 4000Kwh
- 253€ / 4000Kwh = 0.033 € = 0,25 Kr
- If we are in Africa or other hot areas, you got more sun hours

Solar panels instead of batteries

- It's cost 0.62€/kwh in battery
- It's cost 0.033€/kwh in solarpanels
- You only need to use 6,6% of the energy from panels
- Even a gray and rain day the panels can delevery 6,6% of energy.

Where are we using the Sun geneartor

- Cooking!
- Use for small jobs.
 sewing, grinding, etc.





Cook more at the Sun geneartor





Cook more at the Sun geneartor

Even bake



Where are we using the Sun geneartor

- With more panels, we can get more power.
- Running a deep freezer
- Running bigger tolls
- More cooking

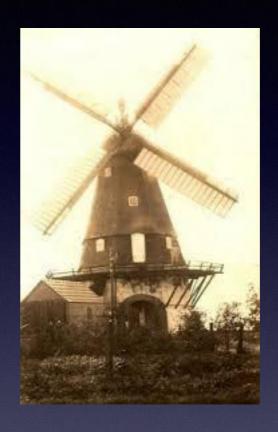
Work at day

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Read in the evening and sleep at night

Our grandparents were planning day by wind and sun





And they do not have the weather forecast

Today we got

- Weather forecast, I hope....
- We have smart calendar
- If we combine that.....

The days whithout sun and wind

- I can find several good ideas
- But I have some job to do



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And final

or not

If I can't find more to do

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I am quite sure my wife got a long list who not include electricity

More todo with out electricity

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Can I now relaxe

Picture removed due to copyright

But before you finish

The sun or wind is back, so forget.....

Now, you will ask me, what about heating and light...

A passivhuse...



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And only use light you need

Picture removed due to copyright

And very little energy

Picture removed due to Picture removed due to copyright copyright Picture removed due to copyright

We already got the battery

Hope You enjoyed the show

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Those who are still awake can come with questions.