# Wind vs. Solar

Both wind turbines and solar panels have their pros and cons. Let’s look at solar panels first.

## Solar Panels

A solar panel is relatively compact and can be installed on roofs or on the ground. An average solar panel can produce 1.5 kWh per day, while the average Austrian household consumes about 7 kWh per day. A 3 kWp solar array costs about 5000€, you’d need around 2.3 of those, costing you about 12000€ to power your house for a day. Solar panels are compact, not too expensive and don’t require. Where they fall short is efficiency. They can only capture 20% of the energy it receives.

## Wind Turbines

Large scale home wind turbines are usually between 20 and 30 meters in height. Ideally, they should be taller than surrounding objects. But we’ll be looking at smaller alternatives, like those sold by Tesup, that are much easier to set up and maintain. Wind turbines are quite efficient, compared to solar, being able to harness 50% of the energy. For about 2000€ you can buy a small wind turbine capable of producing 5 kW at peak performance. Overall, wind turbines are more efficient at producing power, but they require more space, not to mention, they also require a **proper windy** location.

## Conclusion

What would be the most ideal on a small apartment block in a town? Solar panels. Solar panels are much more compact and such better suited for this purpose. Wind turbines would be more ideal for large houses with enough free land to install one.