Alternative Energy

Alternative Energy

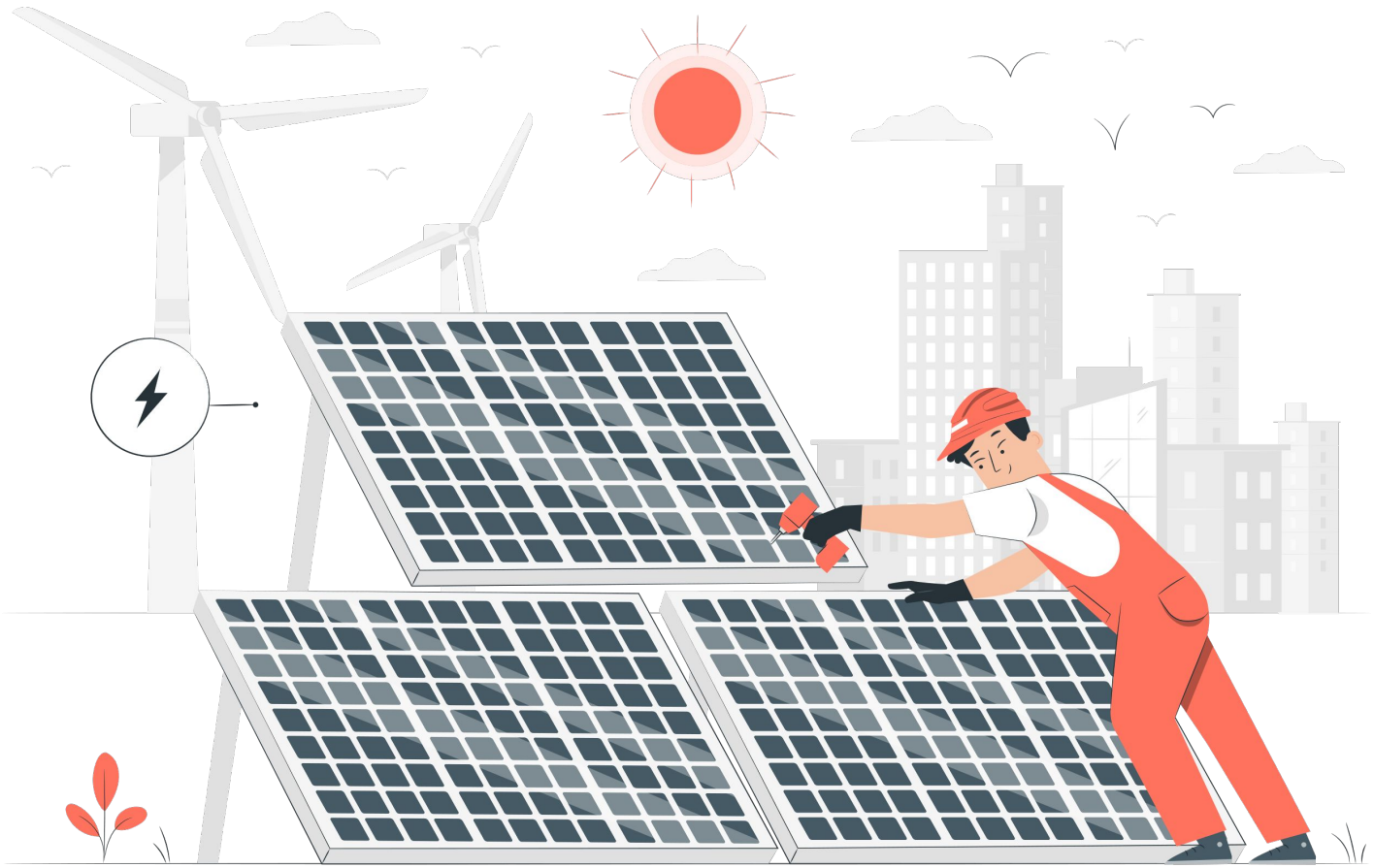
Shaidullaev Maksatbek &


Alternative energy is a type of energy that is clean, renewable, but also expensive in materials and area

Be a part of <u>SOLLUTION</u>

Not <u>POLLUTION</u>

Solar Energy's advantages



Renewable

We can't run out of the Sun and it is available in most part of the world

Sun energy is cheap

The builds on energy will be much less if the government will use only this type of energy

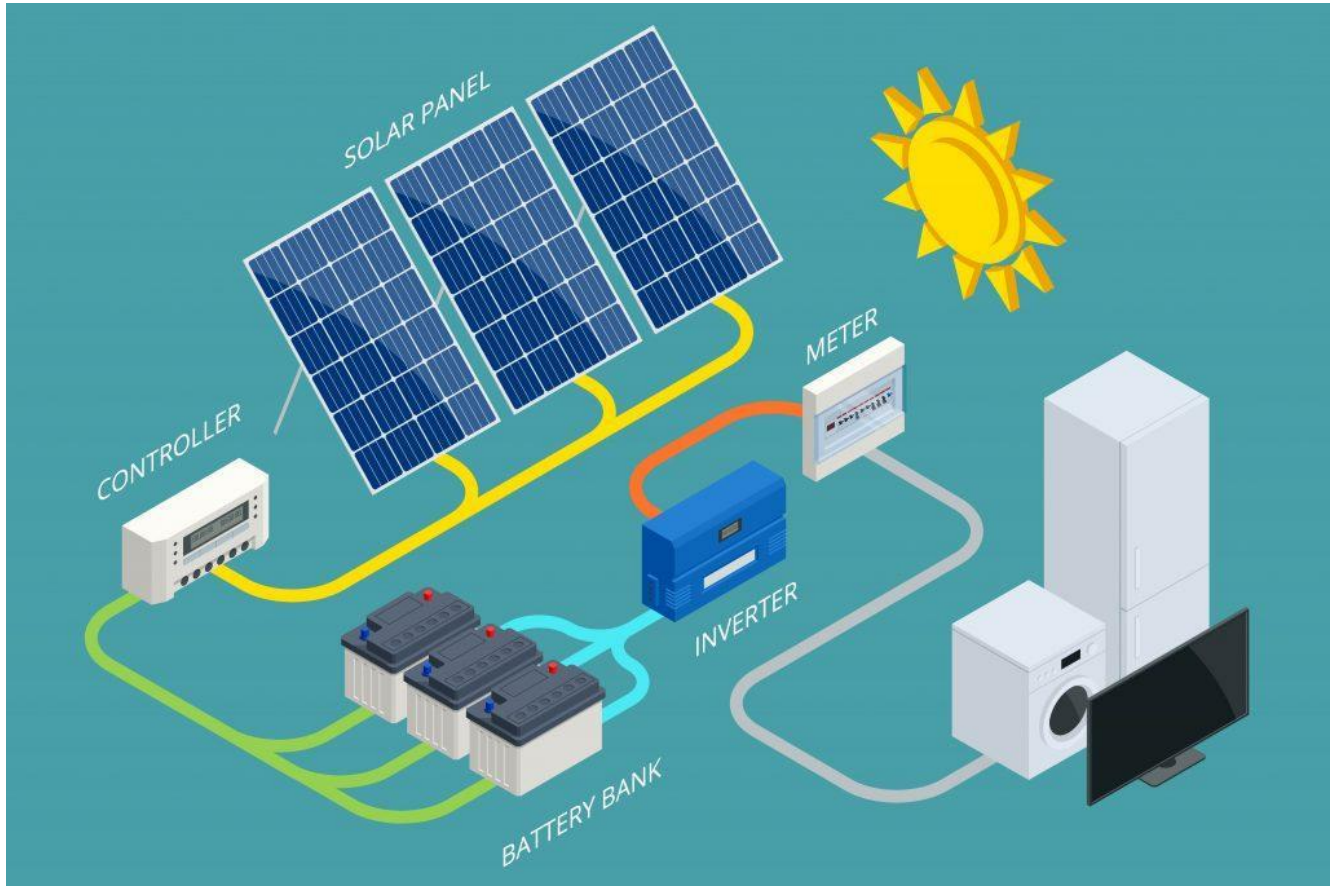
Availability

Other energy sources requires certain circumstances, while solar panels require only place

Low-maintenance cost

Panels should be cleaned and repaired as other energy stations, but the cost is much lower

Solar Energy's disadvantages



Cost

Producing solar panels are extremally expensive. It includes payment for panels, inverters, batteries, wiring, and installation. The cost will decrease because solar energy is developing

Weather dependence

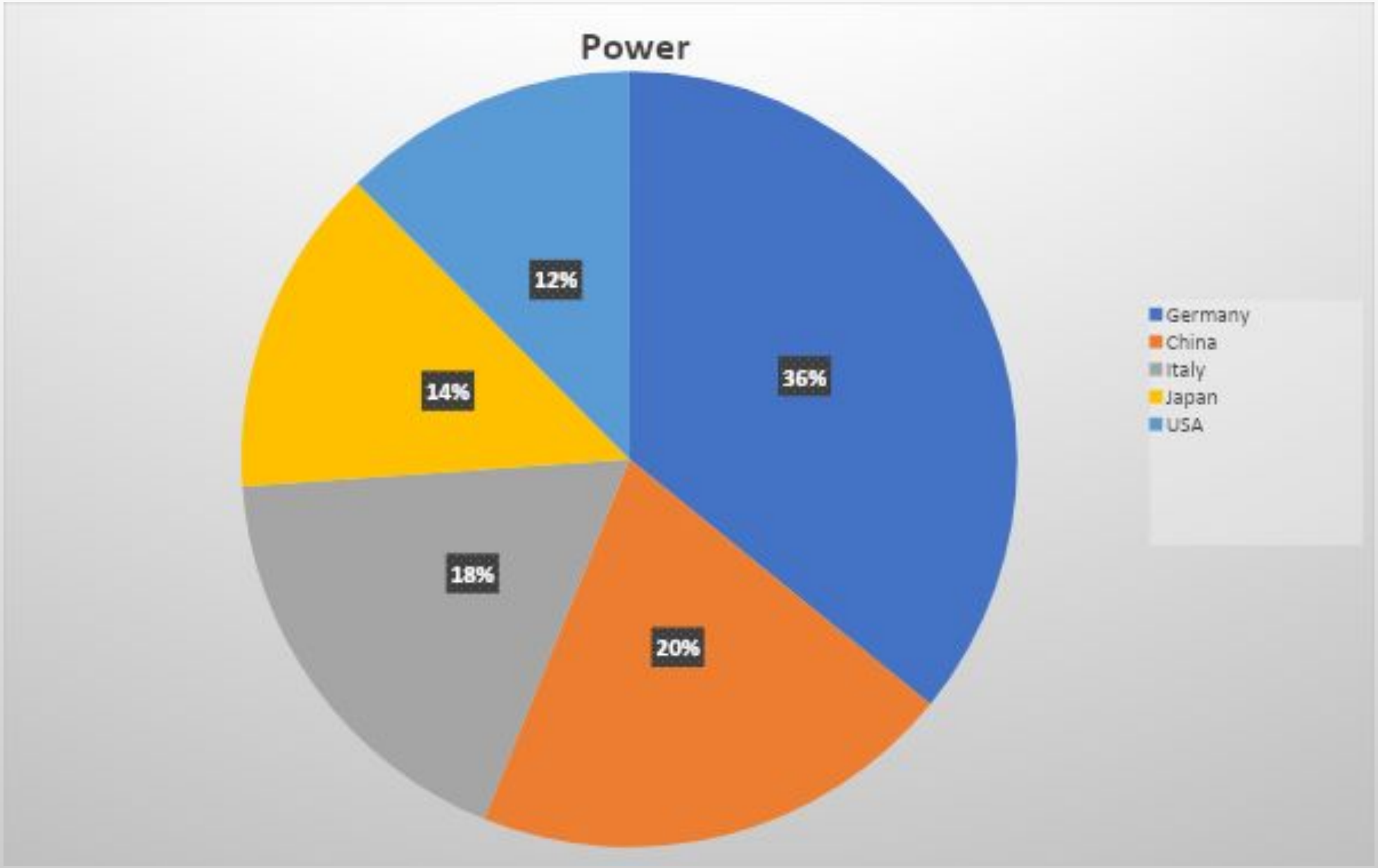
Although solar energy can still be collected during cloudy and rainy days the efficiency all the solar panels drops. Solar panels dependents on sunlight to effectively gather solar energy

Storage

If we will completely switch to alternative energy, we must collect it for bad situations (nights, rains, storms, and etc.) Batteries are expensive and the materials from which batteries are made are not renewable

Space

To produce the same amount of energy as we produce now, we should build thousands of solar panels that take up a lot of space


Power
36%
20%
18%
14%
12%
Germany
China
Italy
Japan
USA

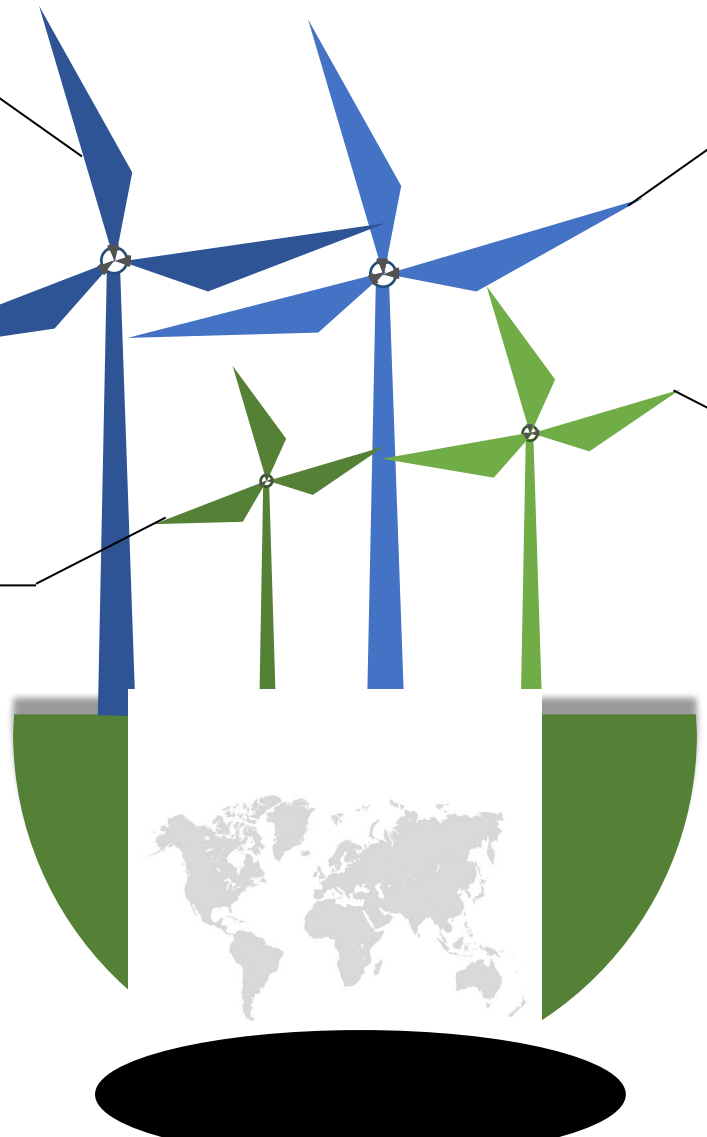
Wind Energy's advantages

Variety

The use of wind energy promotes a variety of energy sources

Prudence

The service life of such a power plant is on average 20-30 years, and after its dismantling, no traces remain – either in the landscape or in the atmosphere



Efficiency

The power plant produces 85 times more energy than it consumes. It also has relatively small losses during energy transportation

Future

The creation of new wind farms leads to technological development, technical innovation and creation of new workplaces

Wind Energy's disadvantages

Investment expenses

Wind farms attract large investments. However, the prices for building wind farms are constantly decreasing due to new advances in technology

Danger for birds

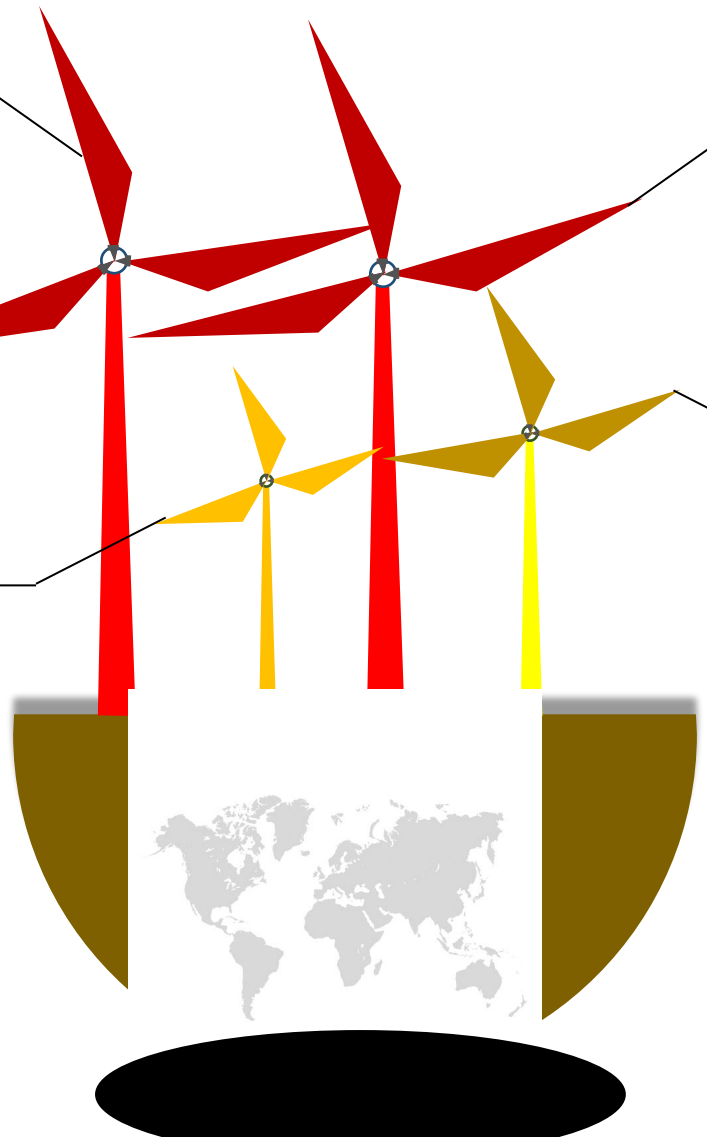
Wind power plants adversely affect the environment and living organisms. They have powerful moving parts that can kill birds and bats.

Noise

Wind farms can generates noise. They are sources of constant low frequency noise. These low-frequency turbine noises (about 40db) and inaudible infrasound can make a person tired

Inconstancy

The strength of wind power is not constant, it causes fluctuations in power generations. The wind is not always predictable, it may not even be here for several days



Hydro Energy’s advantages

Low-emission

Generation of hydro energy doesn’t emit carbon dioxide

Reliable

The output of electricity can be adjusted

Safe

Hydro energy is very safe from of power generation. No sickness-causing pollution is emitting during energy generation

Irrigation

Water in hydro power plants can be used for irrigation

Hydro Energy's disadvantages

Environmental consequences

In order to build hydro plant, it needs block canal, is cause the other part to dry out

Expensive to build

The upfront cost of building a hydro power plant can millions of $$$

Drought potential

Creation of electricity can be severally reduced if there is a drought and no enough water flow into the plant

Limited reservoirs

It is challenging to find a suitable spot that has a large year-round water supply with a right amount of water and is close enough to existing power lines


THANK YOU FOR
ATTENTION