

Wind Power

Wind power (or wind energy) is a type of renewable energy that uses the power of the wind in order to create electricity. It works by using wind turbines to convert the turning motion of blades, pushed by moving air, into electricity.



PROS:

- It is cost effective (they provide one of the lowest-priced energy today).
- They generate and create new jobs.
- They take up little space.

CONS:

- Wind turbines can put some wildlife in danger.
- Wind power is limited by location.
- Wind turbines can be noisy.

Cost

15

**Reduce oil
dependance**

15

SOLAR ENERGY

Solar energy is a renewable form of energy, and this means it cannot 'run out'. It represents energy from the sun converted in either thermal or electrical energy.

PROS:

- It creates no carbon emissions.
- One is able to 'store' the energy not used, in order to benefit from it when the sun is not so bright.
- The excess power can be sold, if not used.



However, there are also some *negative* aspects regarding it.

CONS:

- Solar panels depend on sunlight; thus they do not work during the night.
- Producing the parts used for them can be harmful for the environment (through habitat destruction, mining of damaging raw materials, water pollution etc.)
- The high cost of the initial transition



Cost

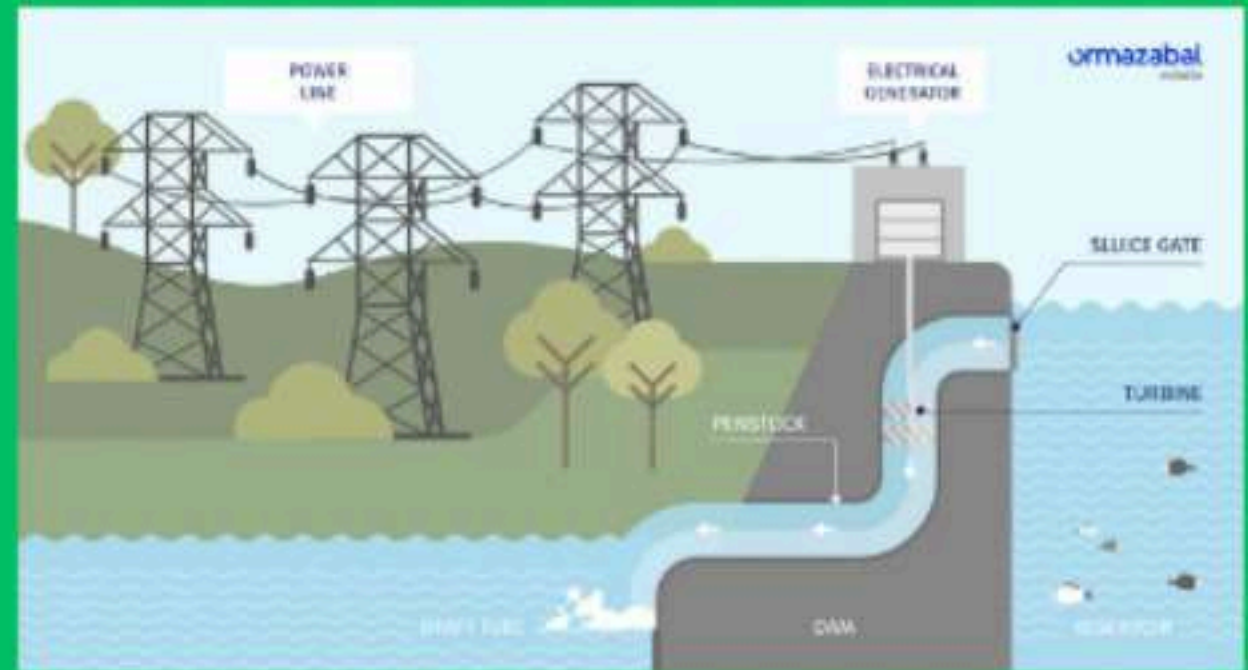
10

Reduce oil
dependance

10

Hydropower

Hydropower is one of the oldest and largest sources of renewable energy. It uses the natural flow of moving water to generate electricity. The power is generated by leveraging elevation differences (usually created by a dam that interrupts the flow of water in a river).



PROS:

- It helps with flood control.
- It offers irrigation support
- It facilitates water supply

CONS:

- It displaced people.
- There are limited reservoirs.
- It has an environmental impact

COST

30

REDUCE OIL DEPENDANCE

25

Individual Scenario:

Green Energy Award

A global environmental organization announces a competition recognizing islands that successfully reduce fossil fuel dependency while maintaining strong economic growth. Winning islands will receive international publicity and investment opportunities.

Choice A

Showcase your renewable energy achievements



Choice B

Promote industrial growth instead





Result A

Investors and tourists become interested in the island's sustainability efforts, boosting the local economy

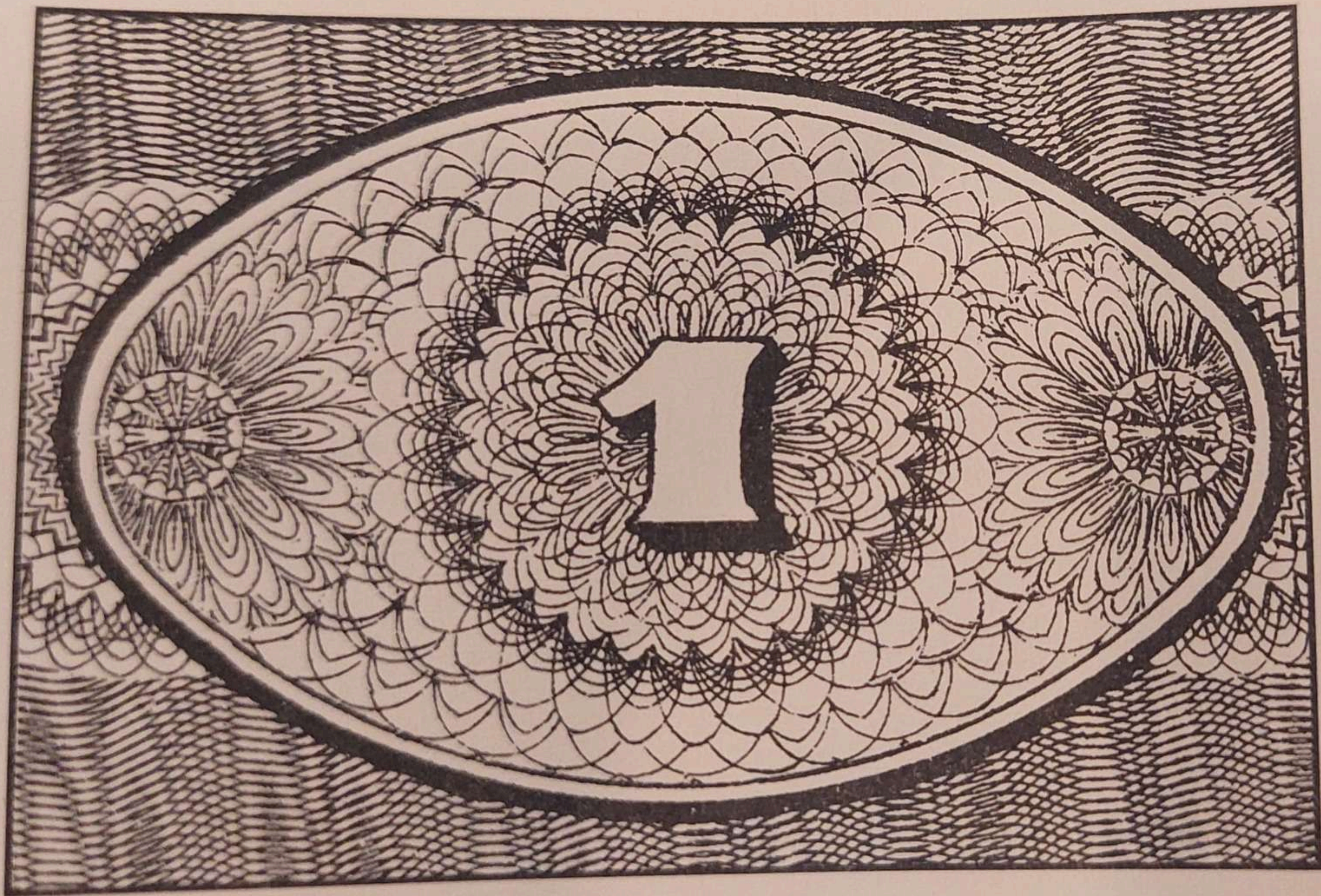
+8  **-7%** 



Result B

Factories and businesses expand rapidly, strengthening the island's short-term economy without focusing on sustainability goals

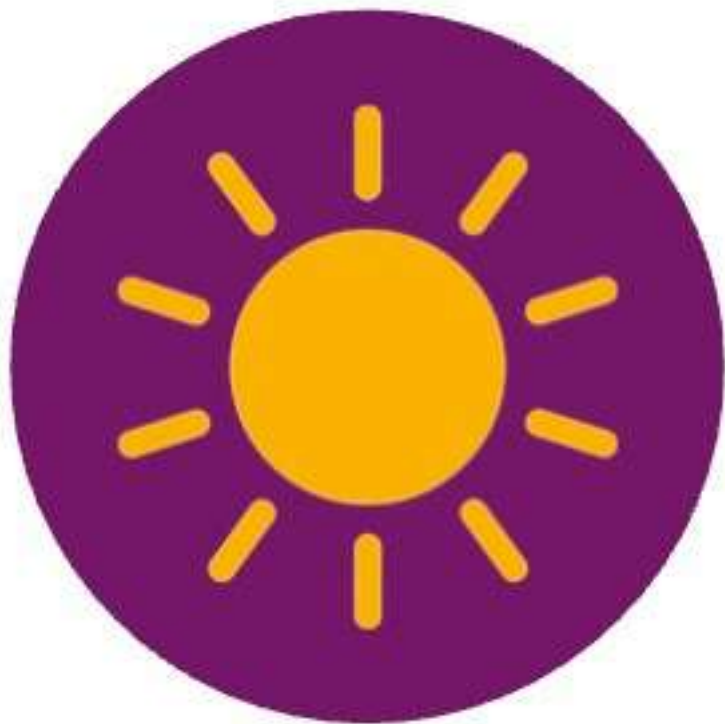
+9  **+6%** 











BONUS

SLY DEAL

Choose another player and **steal** one renewable energy installation from them

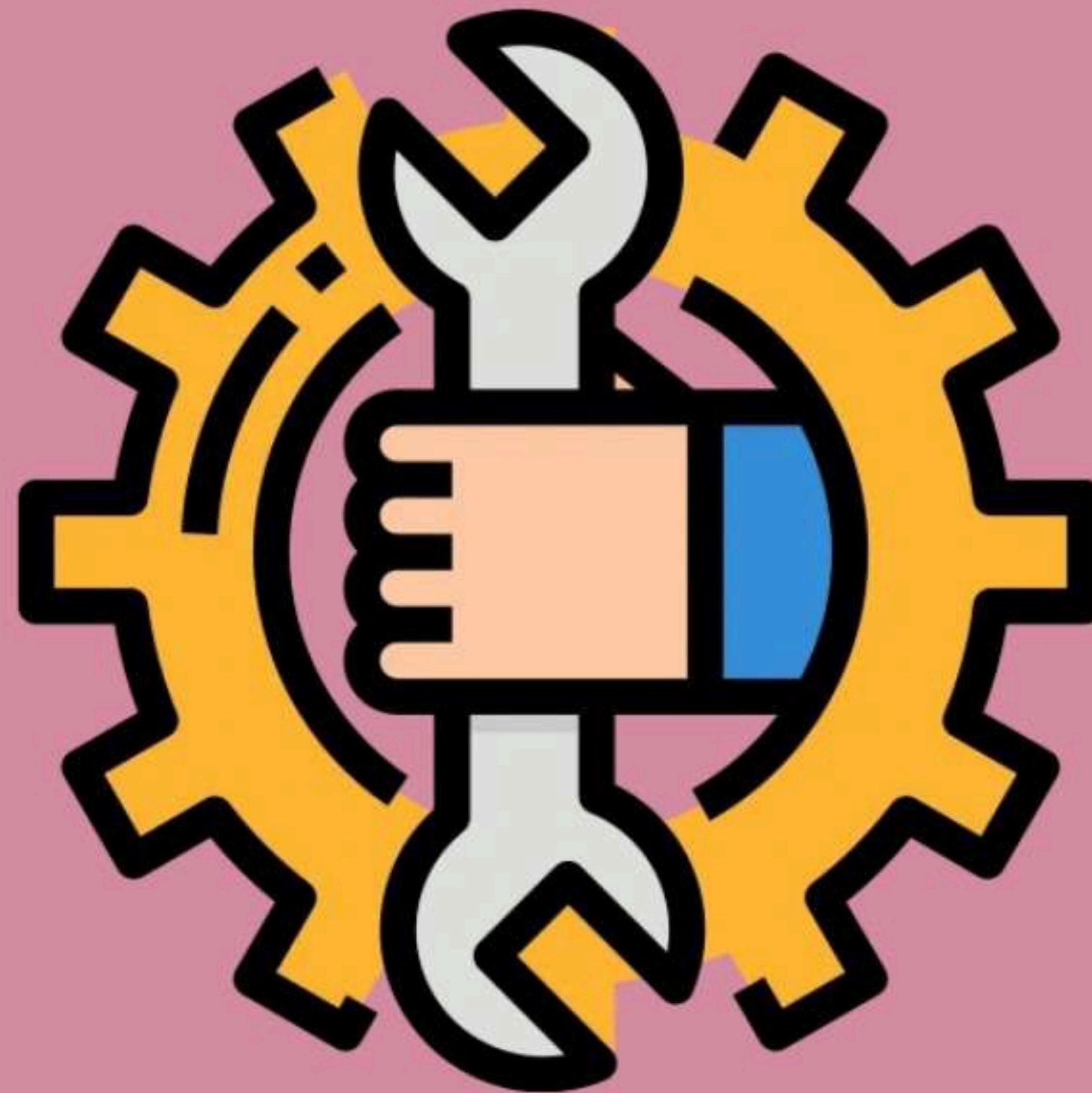


The chosen player cannot refuse the exchange!

Maintenance Day

SOLAR PANELS

Monthly solar panel maintenance day. Dust is building up on the panels and need cleaning.
Every player with solar panels, pay -3 money for each in possession



YOUR ISLAND NAME : _____



ENERGY ISLAND POINT TABLE

