Power for Pickering Elementary School

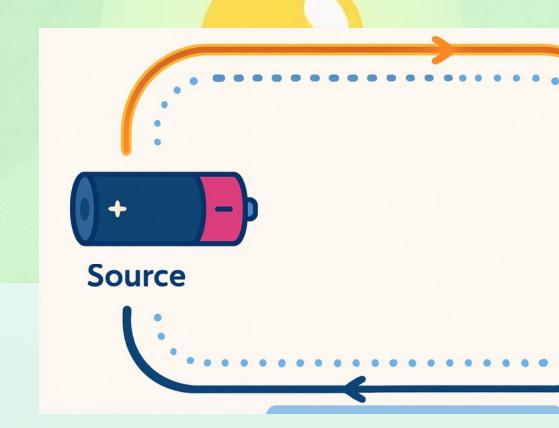
rning Adventure with Clean Energy

nti Foundation Team



aparla, 12th grade, STEM ath, 10th grade, STEM khakolli, 10th grade, DEHS rirangam, 10th grade, DEHS anocha, 7th Grade, LMS aparla, DASD Alumnus Mentor- Dr Bryan Long, Physics Teacher STEM Academy





is Electricity?

ing Parts

made of super tiny led electrons that move as like water through a

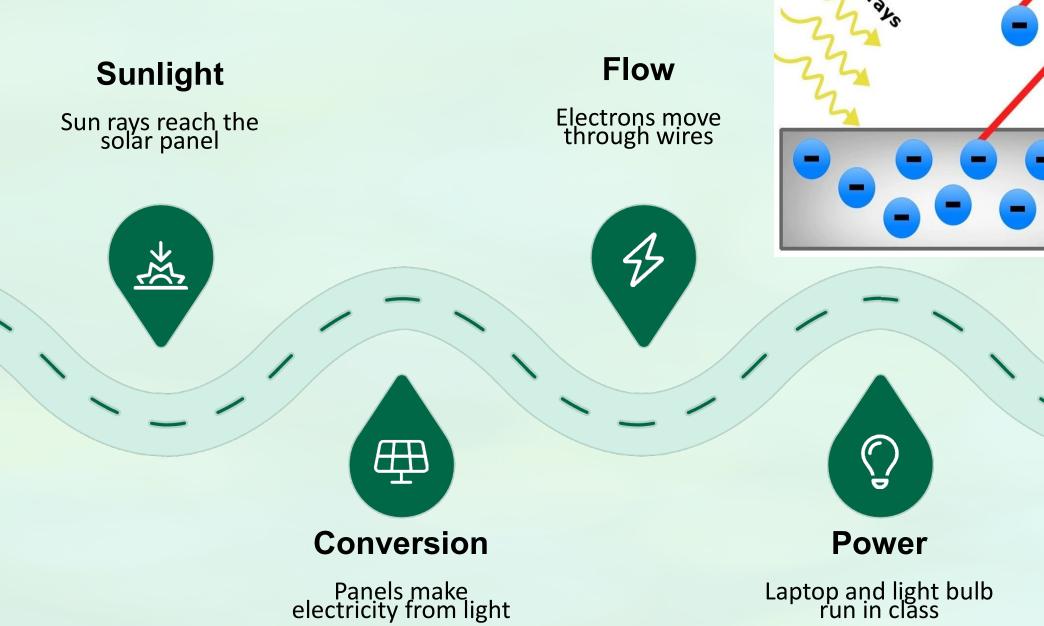
Powers Everything

Electricity makes our lights turn on, computers work, and keeps our food cold in the refrigerator.

Invisible Helper

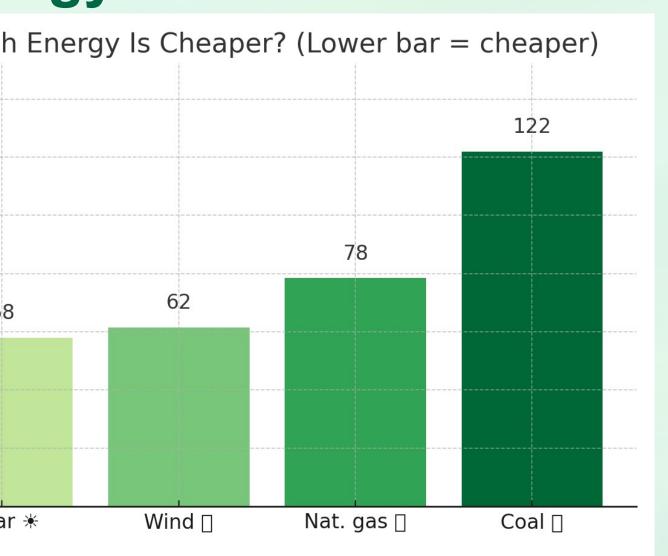
We can't see electricity, see what it does - like m light bulb glow bright!

olar Energy Works



s light every day. ch this sunlight and turn it into electricity we can use to power our school devices

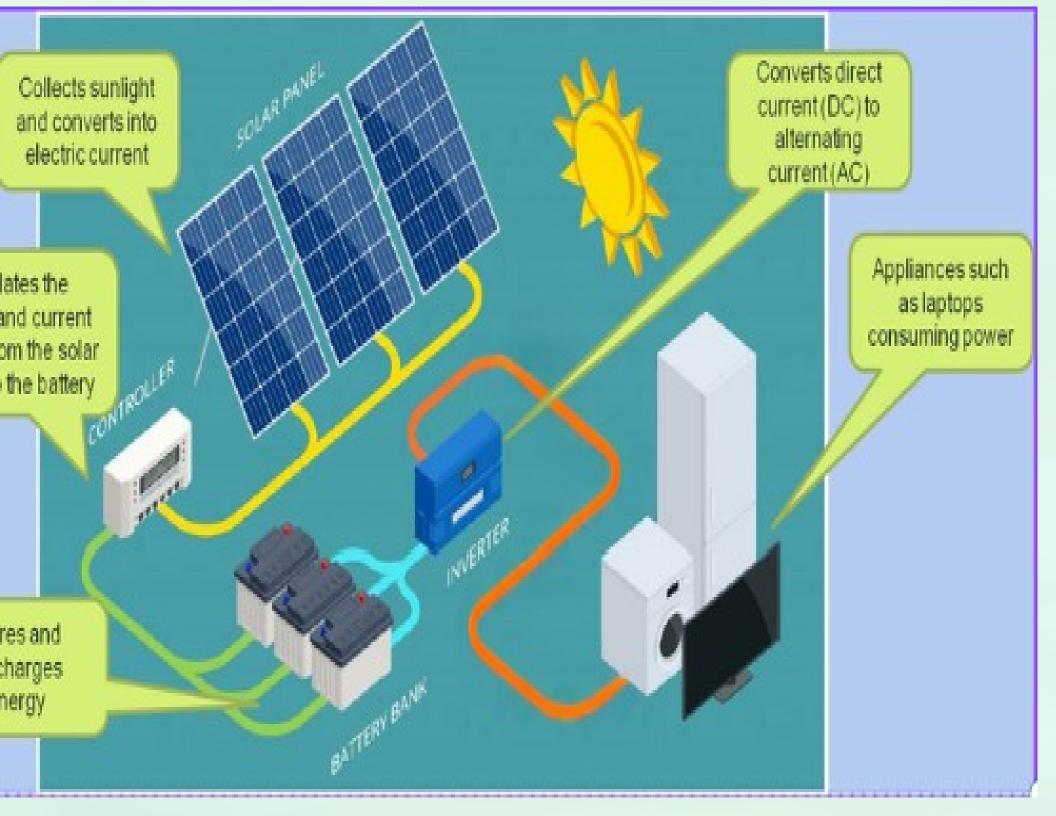
ergy Different Types



Numbers are example costs for big power plants. Solar & wind are usually cheapest today.

ized Cost of Energy+ (LCOE+) — Version 18.0 (June 2025).





obile Solar Kits

Fixed Solar Kits



ne place ecial permits ensive to install ts of power

Mobile Solar Kits



- We can move it anywhere!
- No permits needed
- Less expensive
- Perfect for learning

Our BLUETTI Power Station

akes It Special?

e like a big lunchbox

6 laptops for 3 hours

reen to show how much energy we're using

students to use

rge from the sun or wall outlet



of Our Solar Kit



ion

city like a giant battery. Has outlets just like the wall! attery + Inverter)



able

solar panels to our power station to fill it with



Solar Panels

Catch sunlight and turn it into electricity. Fold up for carrying!



Phone App

Shows us how much energy we're making and using





BLUETTI AC180

Weight: 16kg / 35.27lbs



g Up Our Solar Kit - Step 1

ed

pot

station on a flat surface away from water.

reen

ay to see how much energy is stored.







Setting Up Our Solar K Step 2



Unfold Panels

Open the solar panels like a book and point the sun.



Connect Cable

Plug the charging cable from panels into the po



Plug In Devices

Connect laptops and lights to the AC outlets or station.

olar Energy Experiments!

st

the solar panel with your hand. Watch how the on the screen!



Cloud Watch

When clouds cover the sun, see how the power cha days make more electricity!

ame

els different directions. Which way makes the most toward the sun!)



Power Math

Count how many laptops we can power. Use the screethe watts each device uses!