



Solar

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ENERGY

PRESENTS:

[THE FUTURE OF SOLAR]

**SOLAR ROOF SHINGLES**

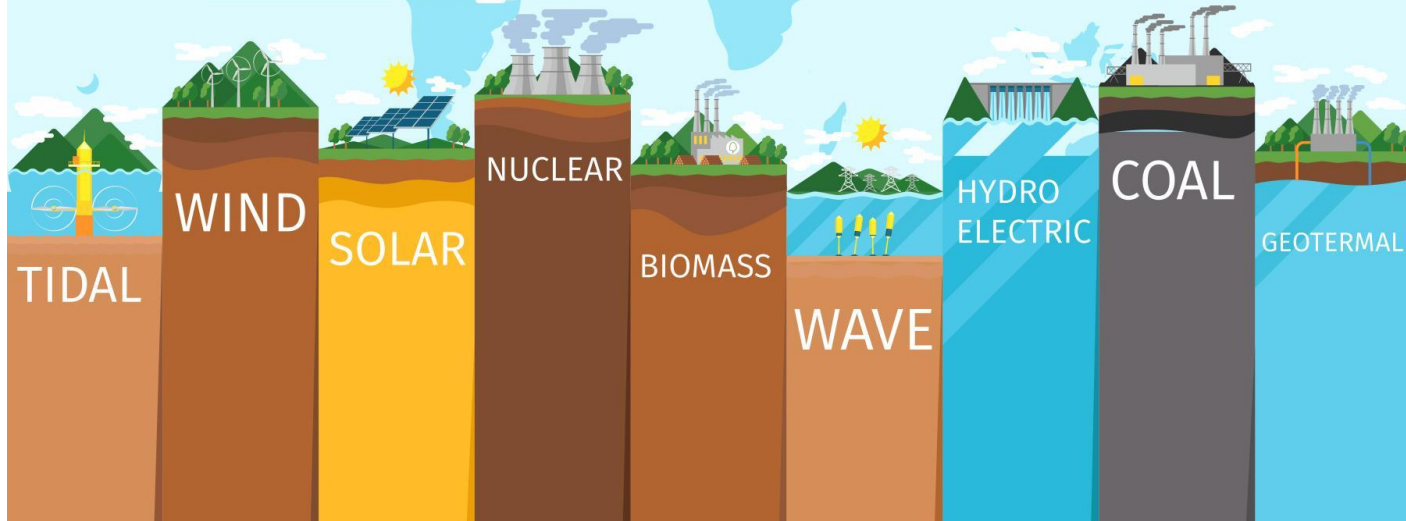
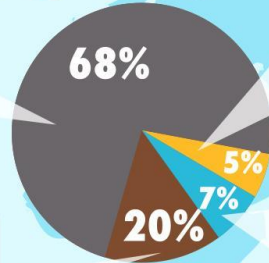
# ENERGY SOURCES

**68%** OF AMERICA'S ENERGY COMES FROM FOSSIL FUELS SUCH AS OIL, COAL, AND NATURAL GAS

**5%** OF AMERICA'S ENERGY COMES FROM "OTHER SOURCES," THIS COULD INCLUDE WIND & SOLAR.

**20%** OF AMERICA'S ENERGY COMES FROM NUCLEAR POWER STATIONS

**7%** OF AMERICA'S ENERGY COMES FROM HYDROELECTRIC POWER STATIONS.



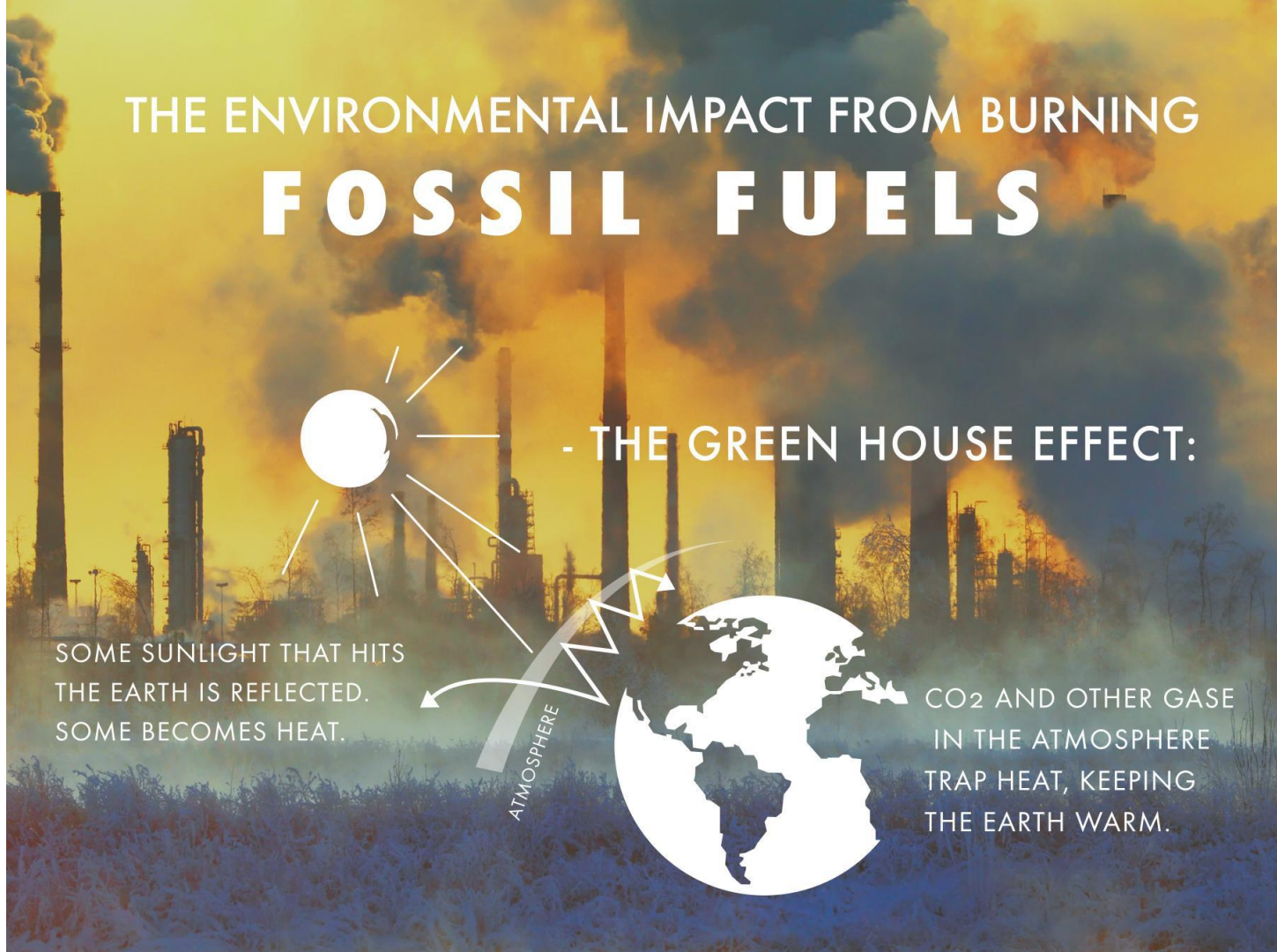
# THE ENVIRONMENTAL IMPACT FROM BURNING **FOSSIL FUELS**

## - THE GREEN HOUSE EFFECT:

SOME SUNLIGHT THAT HITS  
THE EARTH IS REFLECTED.  
SOME BECOMES HEAT.

CO<sub>2</sub> AND OTHER GASE  
IN THE ATMOSPHERE  
TRAP HEAT, KEEPING  
THE EARTH WARM.

ATMOSPHERE





Solar

ENERGY

CLEAN

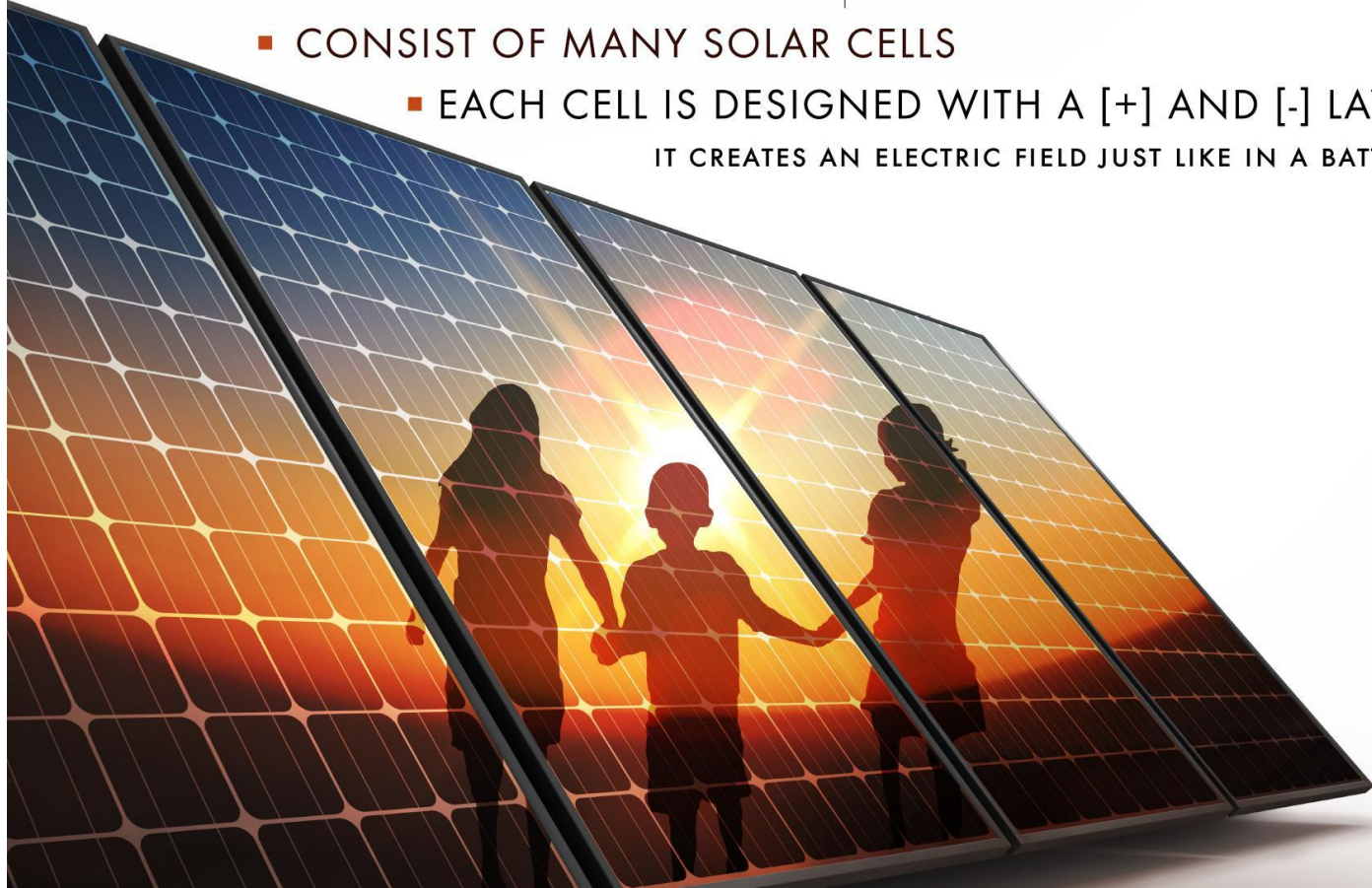
LIMITLESS

FREE

# PHOTOVOLTAIC

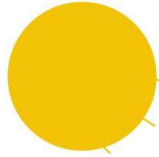
# SOLAR CELLS

- CONSIST OF MANY SOLAR CELLS
- EACH CELL IS DESIGNED WITH A [+] AND [-] LAYER  
IT CREATES AN ELECTRIC FIELD JUST LIKE IN A BATTERY



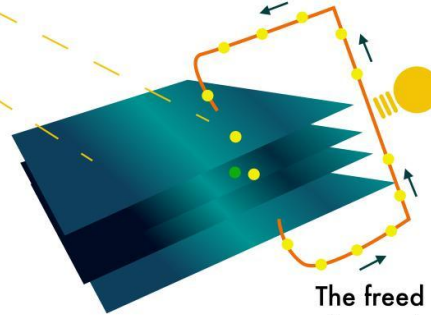
# PHOTON

A photon is a unit of electromagnetic radiation from the sun with no charge.



Its **protons [ + ]** and **electrons [ - ]** are equal.

When sunlight strikes a solar shingle coated with a special surface that naturally knocks off an electron from the particle of light.

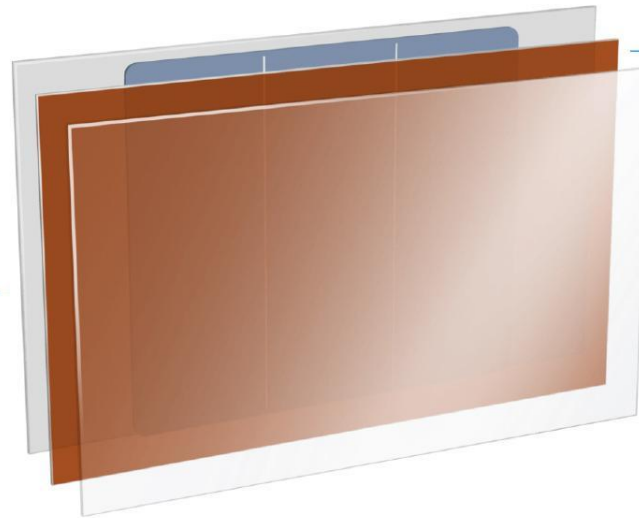


The freed electron travels through an electrical circuit (what we call, a wire) to an area where other electrons are stored.

This works, for both, **SOLAR SHINGLE** and **SOLAR PANELS**.

## Anatomy of the Solar Roof

**Color louver film**  
Allows cells to blend into the roof while exposing them to the sun above.



**High efficiency solar cell**  
Produces energy even during high temperature days.

**Tempered glass**  
Extremely durable and impact resistant.



SOLAR ROOF SHINGLES





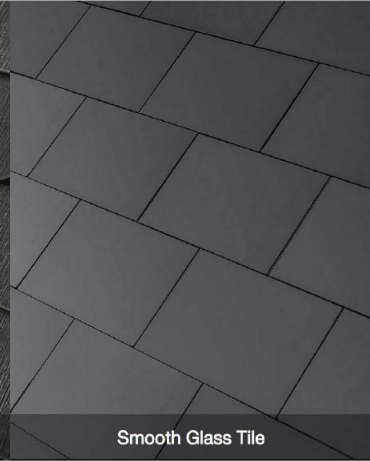
Tuscan Glass Tile



Slate Glass Tile



Textured Glass Tile



Smooth Glass Tile

## SOLAR ROOF SHINGLES



## S O L A R   R O O F   S H I N G L E S



- MADE OF GLASS
- MORE DURABLE
- TOUGHER
- PROVIDES BETTER INSULATION
- LOOKS BETTER
- COST LESS

POWERFUL  
BEAUTIFUL  
AFFORDABLE



NOW

WHAT DO WE WANT

· THE FUTURE ·

TO LOOK LIKE?

# Solar Roof

The sun provides more than enough energy in just one hour to supply our planet's energy needs for an entire year. Your home can capture this free, abundant energy source through rooftop solar tiles, turning sunlight into electricity for immediate use or storage in a Powerwall battery.

**POWERWALL BATTERY**  
To storage energy

**SOLAR ROOF**

**SOLAR CAR**

