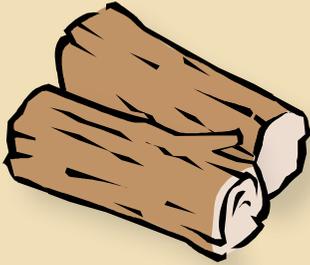


VA #1 Lake by a Small Town



Types of Biomass



Plants

(wood and other plant parts)



Crops and Animals

(corn, rice, sugar cane, sugar beets, manure)

Energy Sources Created from Biomass



Biodiesel

(made from plant oils and animal fats)



Alcohol Fuel

(Ethanol, made from crops)

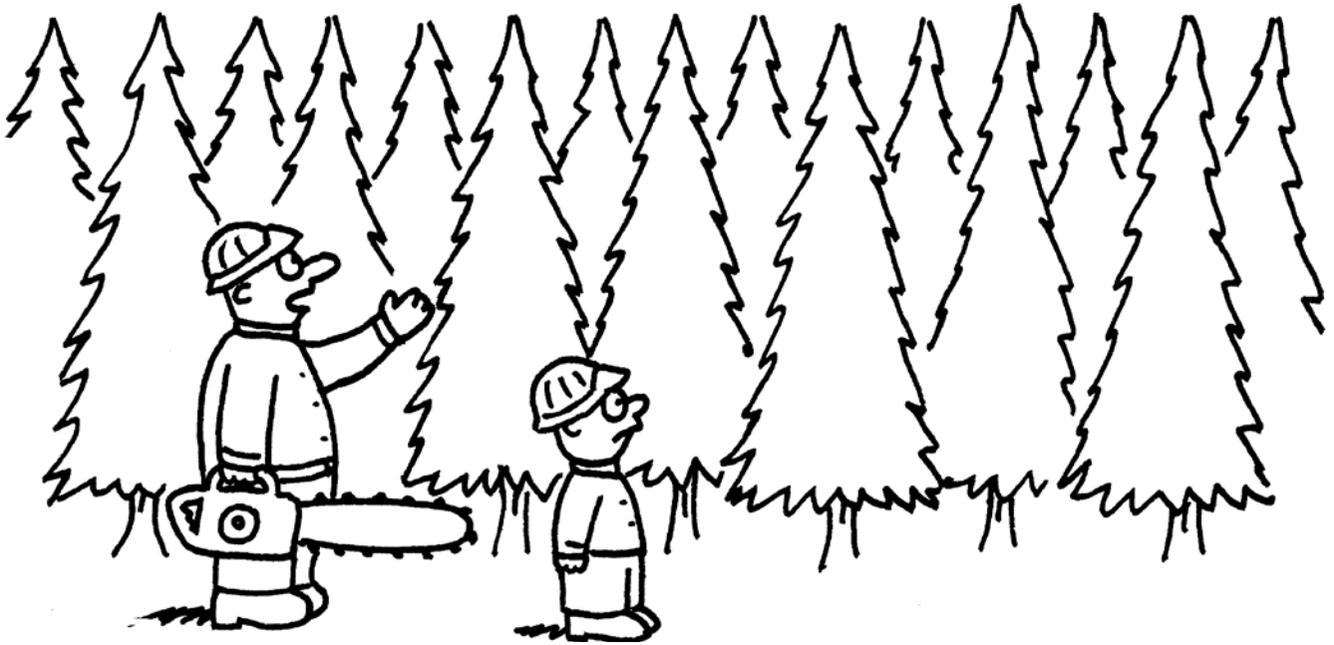
Biomass:

1. The total mass of living matter in a given area.
2. Organic material made from plants and animals.
3. Organic material used for fuel.

VA #4 Toilet Paper

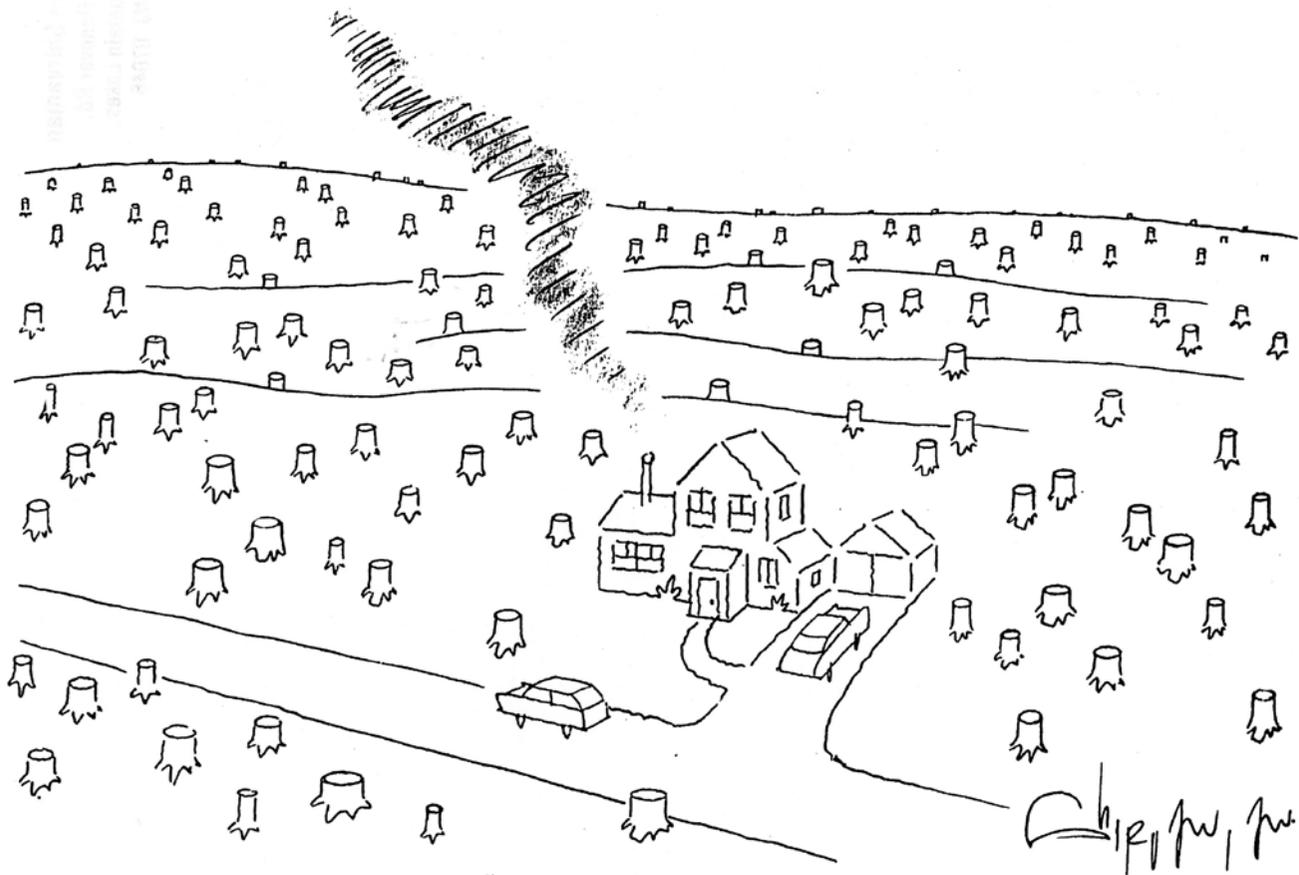


VA #5 Junk Mail



“One day son, all of this junk will be mail!”

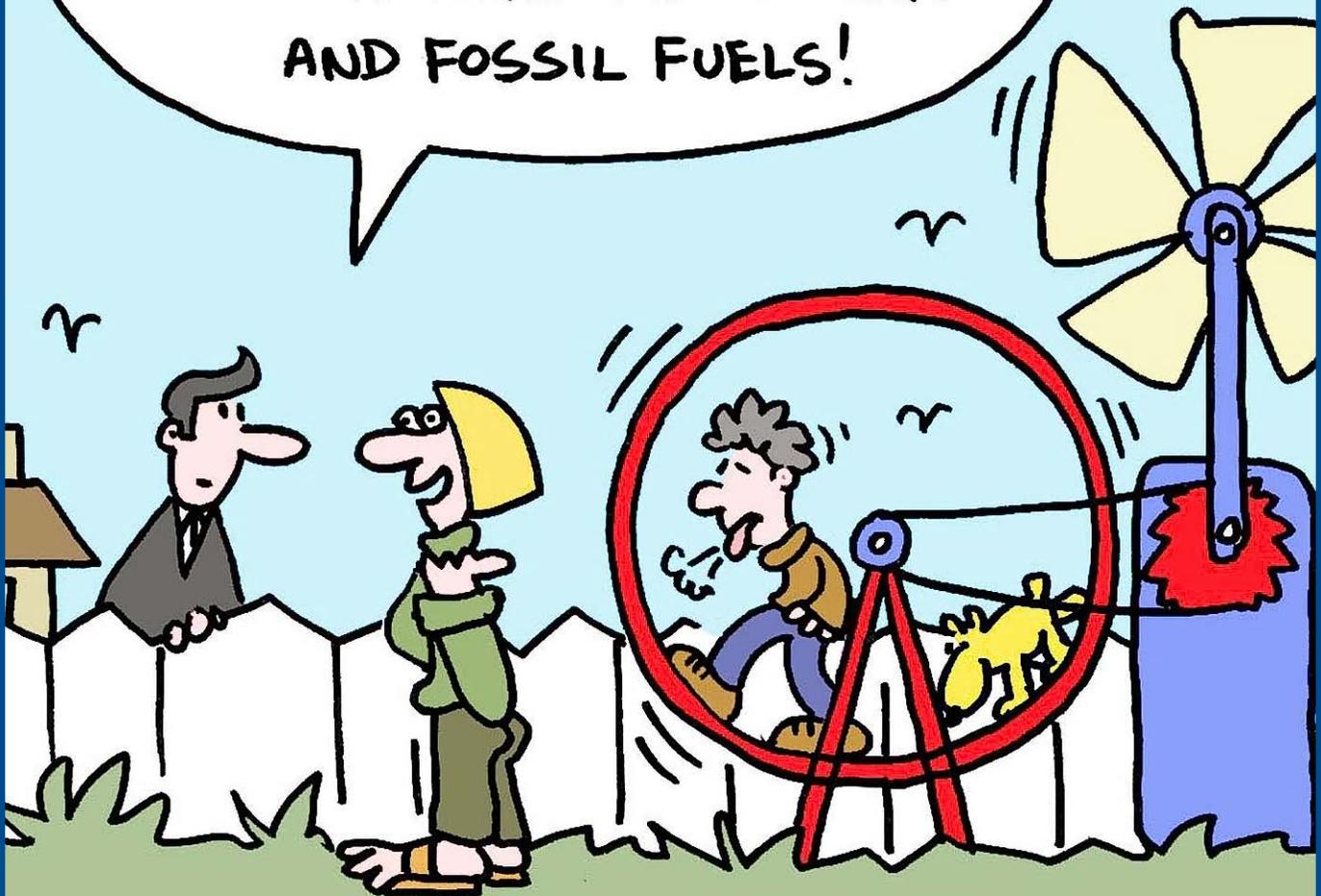
VA #6 Wood-Burning Stove



“Can you believe it? Since we installed our wood-burning stove, we’ve spent next to nothing on heating oil”

VA #7 Boy- and Dog-Powered Fan

IF EVERY HOUSE HAD
ONE OF THESE, WE COULD
DO AWAY WITH ALL NUCLEAR
AND FOSSIL FUELS!



VA #8 Fossil Fuels

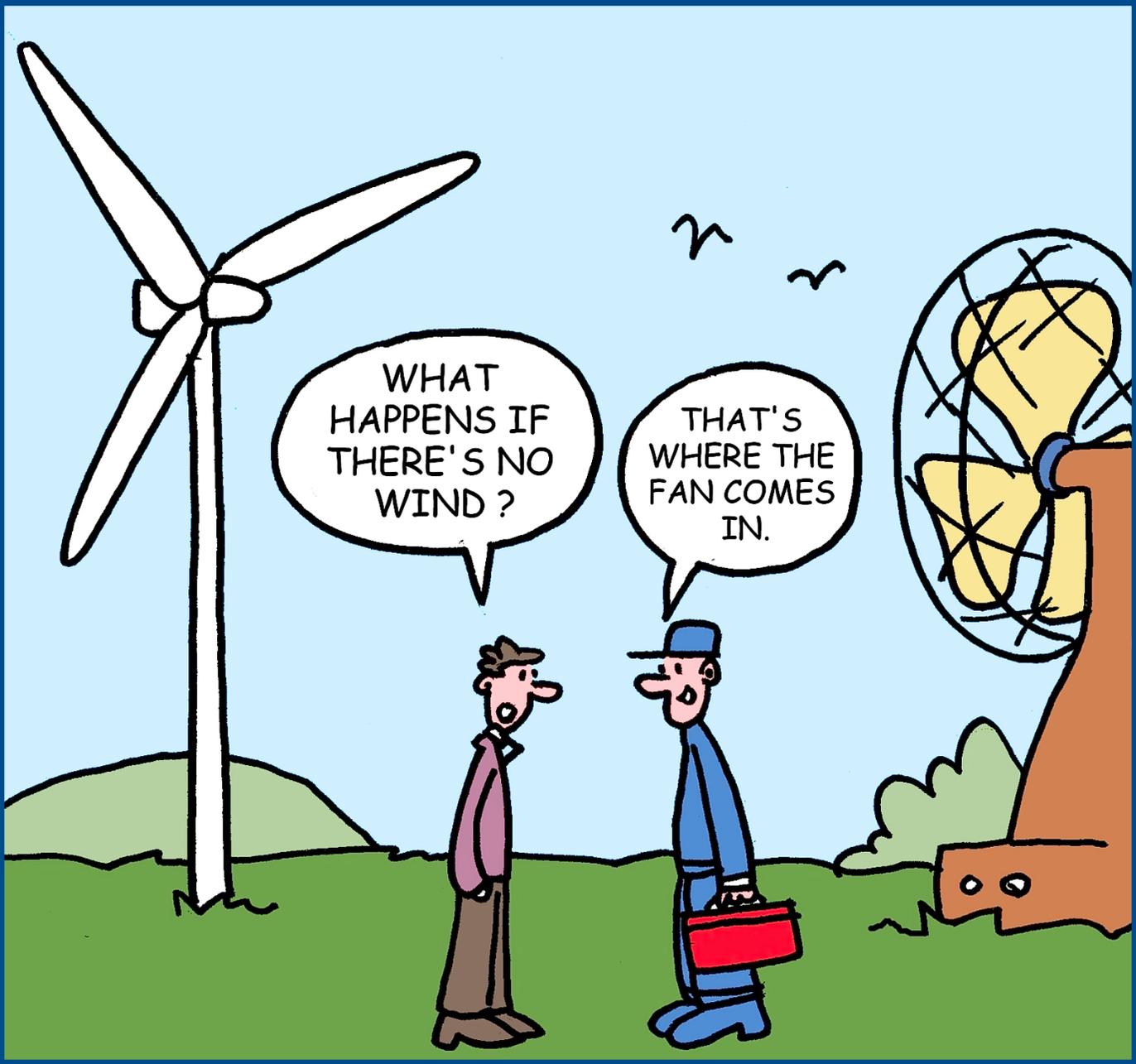


"WE CAME HERE BECAUSE OUR PLANET
RAN OUT OF FOSSIL FUEL."

VA #9 Sunshine Going to Waste?



“When I think of all this sunshine going to waste...”



WHAT
HAPPENS IF
THERE'S NO
WIND ?

THAT'S
WHERE THE
FAN COMES
IN.

VA #11 Fishing Scenarios

Scenario 1:

Imagine that everyone in the town fishes using a rod and reel. The people have a tradition—they never keep more than one fish to eat. One day, a newcomer brings a big net and starts scooping up hundreds of fish at a time. This person plans to sell the fish to a town far away.

Scenario 2:

Imagine that everyone in the town fishes using a rod and reel. The people start a new tradition—everyone in town decides to eat fish for every meal, every day. This means that they have to catch and keep many more fish than they used to.

Scenario 3:

Imagine that the fish population has dropped very low. Now there are not enough fish for everyone in the town to continue catching and eating. When people go to the lake with their rod and reel, they often come home empty-handed.

VA #12 Aquaculture



VA #14 Resources: Input, Supply, and Output

Input

**Rain or
snowmelt**



Supply

**Water in a
reservoir**

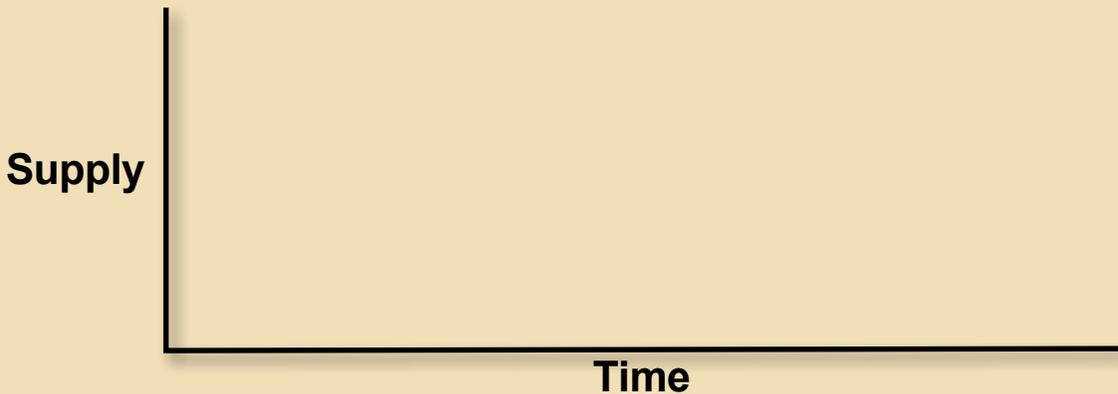
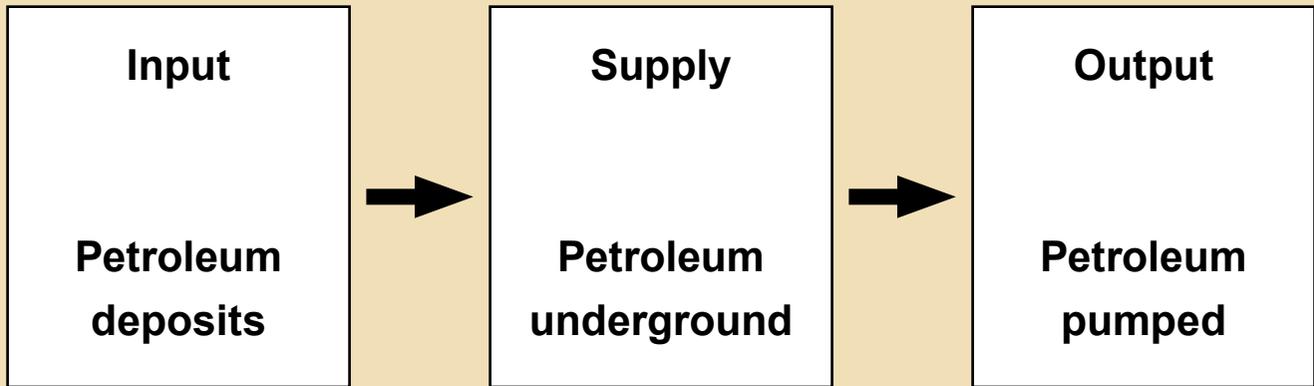


Output

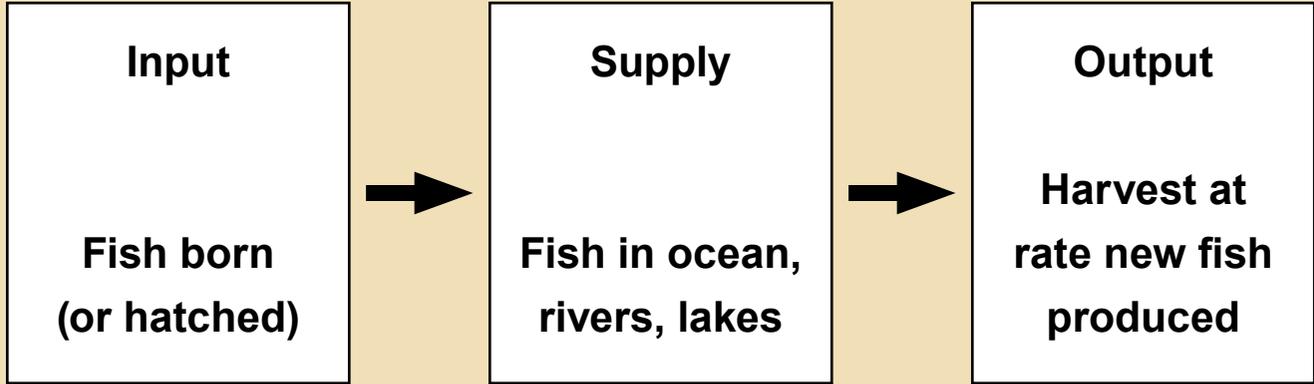
**Water from
a faucet**



VA #15 Petroleum: What Type of Resource?

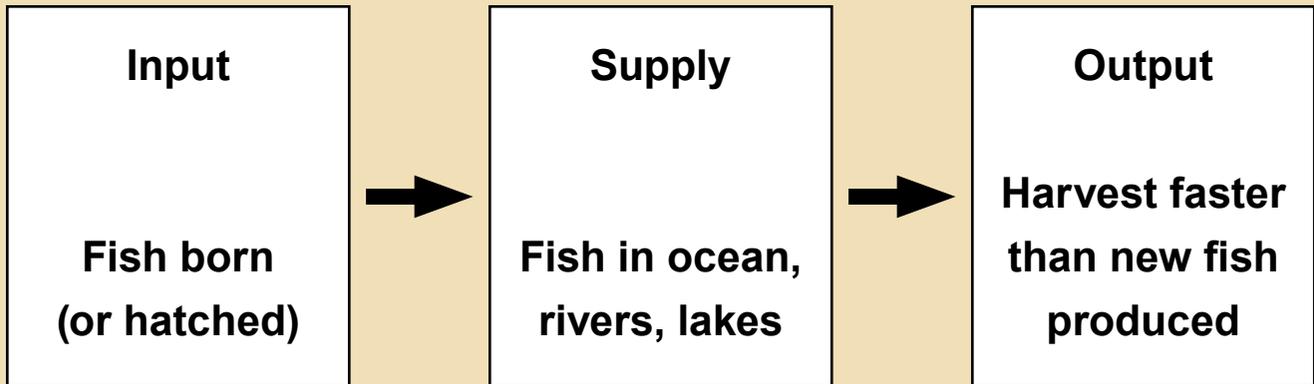


VA #16 Fish: What Type of Resource?

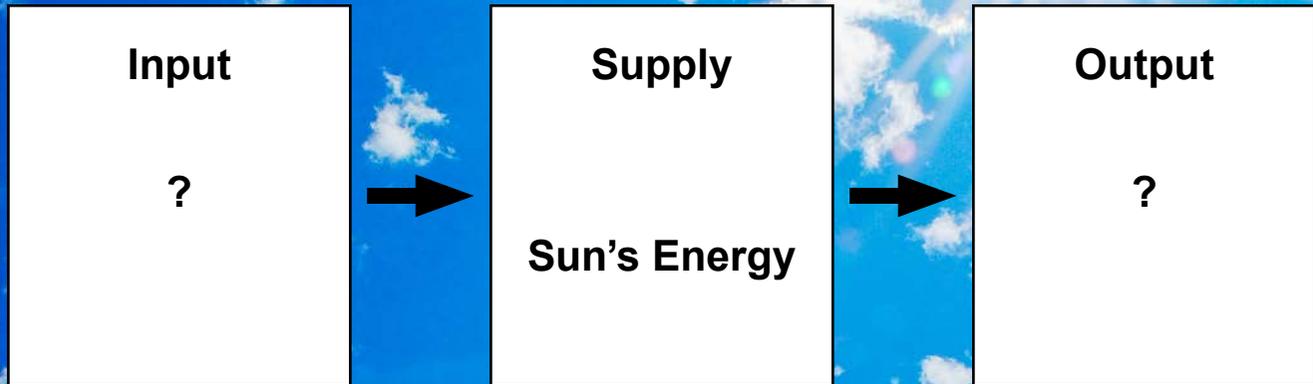


Supply

Time



VA #17 Sun: What Type of Resource?



VA #18 Reclaimed Water

IN ORDER TO
CONSERVE WATER....



RECLAIMED WATER IN USE

**DO NOT
DRINK**

WASH HANDS
AFTER
CONTACTING



**NO TOME
EL AGUA**

LAVESE SUS
MANOS DESPUES
DE USAR