

## Extension 8.4.1/8.4.2



## DREAM THE FUTURE



## ENERGY OF THE FUTURE

1. In the 21<sup>st</sup> century, our planet is alive with \_\_\_\_\_.
2. 85% of our energy comes from \_\_\_\_\_ Fuels.
3. You can't only have power during the day when it's \_\_\_\_\_. You can't only have power when its \_\_\_\_\_. People need \_\_\_\_\_ around the clock.
4. When did the first nuclear power plant begin to generate electricity? \_\_\_\_\_
5. Society's use of fossil fuels is compared to a \_\_\_\_\_ addiction.
6. A miracle cure might exist--- Nuclear \_\_\_\_\_.
7. Fusion has all the advantages of a great power source:
  - a. It's \_\_\_\_\_
  - b. It does not produce and greenhouse \_\_\_\_\_
  - c. It doesn't produce any long-lived radioactive \_\_\_\_\_
8. Crescent Dunes in the Nevada dessert is a \_\_\_\_\_ power plant.
9. This plant powers more than \_\_\_\_\_ homes.
10. Using the optical properties of a transparent \_\_\_\_\_ filled with water, Andre Broessel has invented a unique solar energy generator called Rawlemon.
11. The sphere works like a \_\_\_\_\_ glass.
12. What's absolutely amazing is that over the past year or two solar and wind energy has started to produce \_\_\_\_\_ electricity than oil, gas or coal.
13. Wind turbines already meet \_\_\_\_\_ of global energy needs.

14. To harness wind power in cities, Gaborota has designed \_\_\_\_\_ turbines that operate with winds as little as \_\_\_\_\_ miles per hour.
15. Our electricity has long been generated by \_\_\_\_\_ plants using fossil fuel, and by nuclear, wind farms, and solar panels.
16. Smart \_\_\_\_\_ incorporate the latest software into every part of the network, optimizing production and distribution and smoothing out \_\_\_\_\_ demands.
17. The biggest waste comes from \_\_\_\_\_, which consumes over 1/3 of the world's energy.
18. To save energy, we need large scale \_\_\_\_\_.
19. Smartphones contain up to \_\_\_\_\_ precious metals, making them hard to recycle.
20. What is the name of the cell phone that is more environmentally friendly? \_\_\_\_\_
21. Instead of allowing Carbon Dioxide gas to go into the air, what would be another solution?
22. Oceans have much more to offer in the form of \_\_\_\_\_ energy.
23. Right now, Hawaii is \_\_\_\_\_ dependent on foreign fossil fuel for our base load power.
24. You need \_\_\_\_\_ and \_\_\_\_\_ seawater to generate power.
25. OTEC generates electricity around the \_\_\_\_\_.
26. We know how to produce vast amounts of energy while saving the planet.

THE FUTURE IS IN OUR \_\_\_\_\_.

