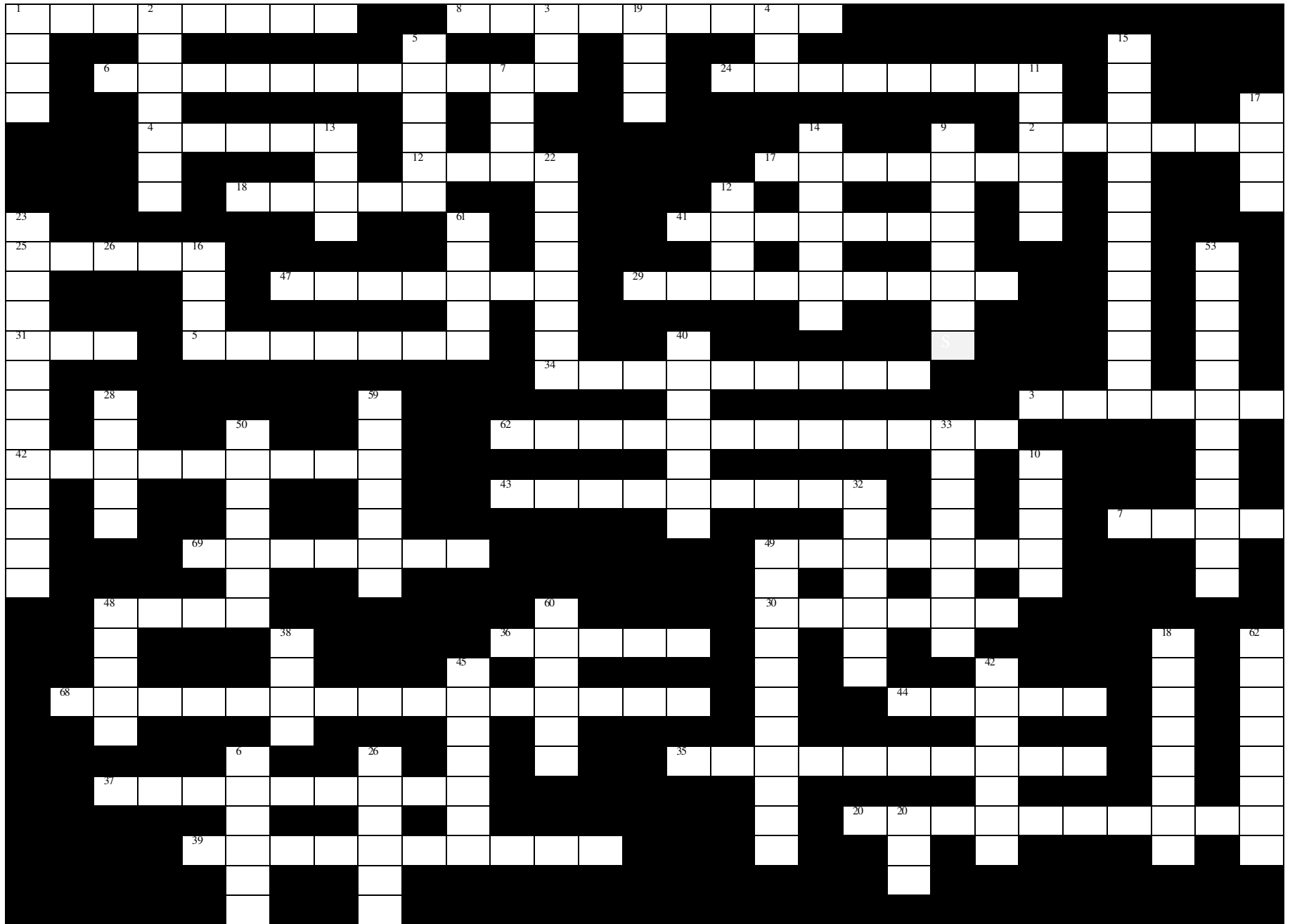


**CROSSWORD PUZZLE ENERGY REVIEW –**

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_



## ACROSS

- 1 Another name for petroleum right out of the ground or unrefined "black gold".
- 2 Green house gases do not allow sunlight reflected from the earth to \_\_\_\_\_ from the earth's atmosphere.
- 3 Bird used by coal miners to detect the presence of methane & carbon monoxide in mines, deadly gases to humans in high concentrations.
- 4 China is one of two emerging economic powerhouses beginning to compete with the U. S. for Middle Eastern oil. What is the other country?
- 5 Largest oil-producing African country.
- 6 The generic name for all energy sources derived from the remains of organisms that died millions of years old is \_\_\_\_\_.
- 7 Controversial oil-producing country that is developing its nuclear program.
- 8 The energy production of Itaipu is measured in \_\_\_\_\_.
- 12 There is growing concern about the sale of spent fuel by nations that were formerly part of the \_\_\_\_\_ to terrorists.
- 17 23% of the U. S.'s electricity is generated by \_\_\_\_\_ energy.
- 18 To control the chain reaction in a nuclear power plant, you \_\_\_\_\_ the control rods between the fuel rods.
- 20 The more dangerous of the two kinds of coal mining but which damages the environment less is \_\_\_\_\_ mining.
- 24 Before renewable energy can begin to compete with non-renewables, we must \_\_\_\_\_ their cost-effectiveness.
- 25 Prefix for energy derived from water.
- 29 Even though nuclear energy has such a high energy yield, we haven't gone all nuclear because this kind of energy is still very \_\_\_\_\_.
- 30 Natural gas is colorless and odorless. A harmless chemical is added to it so humans can detect it if it is leaking avoiding the \_\_\_\_\_ of an explosion.
- 31 Because fossil fuels take so long to create by natural means they are considered \_\_\_\_\_-renewable.
- 34 A machine that converts mechanical energy into electrical e. is called a \_\_\_\_\_.
- 35 Almost all energy available to us is from the sun directly or indirectly. The main source of non-solar energy available to us is \_\_\_\_\_.
- 36 The only authorized site to dispose of nuclear waste in the United States is the \_\_\_\_\_ Mountains in Nevada.
- 37 Because of its great biodiversity & untapped wilderness, the Arctic National Wildlife Refuge is often called "America's \_\_\_\_\_".
- 39 Much of current U. S. energy policy is geared toward decreasing the U. S.'s reliance on fossil fuels from the \_\_\_\_\_.
- 41 When a country does not have nuclear power plants or hydroelectric plants, they generally rely on electricity generation via gas-\_\_\_\_\_ plants.
- 42 The worst nuclear power plant accident happened at \_\_\_\_\_.
- 43 A highly radioactive human-made element that is a by-product of nuclear power & can be used in nuclear weapons manufacture.
- 44 The Exxon Valdez was the worst oil \_\_\_\_\_ in U. S. history
- 47 Uranium-235 atoms are split to obtain nuclear energy in a process called \_\_\_\_\_.
- 48 The abbreviation for the form of energy conversion that uses the temperature difference between the bottom of the ocean and the ocean's surface waters to generate electricity is called ...
- 49 Natural gas is an odorless gas that is composed largely of \_\_\_\_\_.
- 62 Coal forms from the \_\_\_\_\_ of vegetative matter that lived in swamps millions of years ago.
- 68 Oil and natural gas result from the decay of tiny \_\_\_\_\_ that accumulated on the bottom of the ocean millions of years ago.
- 69 Fossil fuels such as oil & coal are collectively called hydro\_\_\_\_\_.

## DOWN

- 1 More than half the electricity in the U. S. is generated from \_\_\_\_\_.
- 2 The carbon cycle contributes to global warming in the form of carbon \_\_\_\_\_.
- 3 The curious thing about methane is what state it is found in nature: \_\_\_\_\_.
- 4 About \_\_\_\_\_ percent of the world's energy is generated by nuclear energy and biomass combined.
- 5 \_\_\_\_\_, which is found in all grades of coal, can be a major source of pollution when coal is burned and is a cause of acid rain.
- 6 Latin America's biggest oil producing country is \_\_\_\_\_.
- 7 We have \_\_\_\_\_ than 100 years of oil reserves left on the planet.
- 9 Oil \_\_\_\_\_ are the amount of oil deposits that we have that can be extracted in the future profitably at current prices using current technology.
- 10 How many water circuits are there in a nuclear power plant?
- 11 Per-capita \_\_\_\_\_ consumption in highly developed nations is much greater than in developing nations .
- 12 When a cow digests its food to get energy, it may \_\_\_\_\_ and release methane into the atmosphere adding greenhouse gases.
- 13 Acronym for the oil-rich region of wilderness along the northern coast of Alaska that environmentalists and oil developers are fighting over.
- 14 Used in many different kinds of power plants – hydroelectric, nuclear, gas-fired - this device spins & converts mechanical energy into electricity.
- 15 A \_\_\_\_\_ tower separates petroleum into its component compounds by heating it to various boiling points.
- 16 Half a million people in the developing world use solar \_\_\_\_\_s for cooking.
- 17 A glass window allows visible light to enter a house but doesn't allow \_\_\_\_\_ to escape.
- 18 When the electrons of an atom are affected, the element undergoes a \_\_\_\_\_ reaction.
- 19 A form of indirect solar energy, this kind of energy is the same we use to fly kites: \_\_\_\_\_.
- 20 Number one geothermal energy producing country in the world.
- 22 Coal is convenient as an energy source because it requires little \_\_\_\_\_ before using.
- 23 When a Uranium-235 atom is split in a fission reaction, it releases neutrons which collide with other Uranium-235 atoms forming a \_\_\_\_\_ that if left unchecked could cause a nuclear explosion.
- 26 The uranium that is in the fuel rods of a nuclear power plant is in a small \_\_\_\_\_-shaped form.
- 28 Nuclear wastes from a power plant are called \_\_\_\_\_ fuel and can be processed to make nuclear weapons.
- 32 \_\_\_\_\_ is the most heat-absorbing of the greenhouse gases and therefore is the worst.
- 33 In the past, when natural gas was encountered in an oil well, it was burned off because it was considered a \_\_\_\_\_. As technology improved, transporting it in pipelines & storing it in tanks became more practical.
- 38 An intergovernmental organization made up of 13 nations whose objective is to ensure the stabilization of oil markets in order to secure an efficient, economic and regular supply of petroleum.
- 40 A \_\_\_\_\_ bombards a Uranium-235 atom in a fission reaction.
- 42 Wood, methanol, ethanol, and biodiesel are all examples of \_\_\_\_\_.
- 45 Outfitting your home with a large plate glass window facing the rising sun to warm your house is an example of \_\_\_\_\_ solar heating .
- 48 Tidal energy takes advantage of the twice-daily rise and fall of water levels in the \_\_\_\_\_.
- 49 What is amazing about the enormous supply of oil that we have is that it all began with the death and decay of \_\_\_\_\_ aquatic organisms.
- 50 Photo-\_\_\_\_\_ cells convert the sun's energy into electricity.
- 53 \_\_\_\_\_ mine \_\_\_\_\_ is pollution caused when sulfuric acid and dangerous dissolved materials such as lead, arsenic, and cadmium wash from coal and metal mines into nearby lakes and streams.
- 59 A nuclear reaction is about a \_\_\_\_\_ times more powerful than a chemical one.
- 60 A nuclear reaction in which two nuclei are bound together is called \_\_\_\_\_.
- 61 Most of this country's energy still comes from coal.
- 62 A device put on a smokestack to remove sulfur from the coal-burning process. It basically sprays water creating "acid rain" but in the chimney.