

## New Technologies:

As the world develops and discovers new technologies they will be reported here. Technologies listed are available to all countries once they are “discovered”, (do not have a grey background). Green Energy can be used just like oil to run industry, power military or any of the other places that oil is used. Green energy does not produce any CO2, unlike oil that is driving climate change. To discover the green technologies research must be done. To build another research station it will cost countries \$20,000.

Technology	Effect	Cost to build	Cost to Run
Nuclear Power	Gives 5 green energy per year	\$150,000 10 Resources 5 water 1 nuclear weapon	\$20,000 per year for maintenance

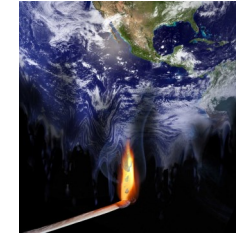
Technology	Dice rolls needed in a year to develop	Effect	Cost to build	Cost to Run
Hydro Electric power	4 dice showing 2's	Give 1 green energy	\$40,000 5 for a total combination of either oil or resources	Nothing
Solar Power	6 dice showing 3's	Gives 2 green energy	\$50,000 10 Resources	nothing
2nd generation Solar Power	8 dice showing 3's	Gives 3 green energy	\$50,000 8 Resources	nothing
Wind Turbine	8 dice showing 4's	Gives 2 green energy	\$70,000 8 Resources	nothing
Geothermal	10 dice showing 5's	Gives 1 green energy	\$90,000 6 Resources	nothing
Water desalination plant	12 dice showing 2 of each #'s 1 to 6	Gives 2 water	\$100,000 30 Resources	5 oil or 5 green energy per output can be used multiple times a year
2nd generation Water desalination plant	18 dice showing 3 of each #'s 1 to 6	Gives 3 water	\$100,000 15 Resources	4 green energy per output can be used multiple times a year
Advanced Batteries	15 dice showing- 5-3's 5-4's 5-5's	Doubles green energy output	\$150,000 40 resources	nothing
Nuclear Fusion	60 dice showing 10 of each 1 to 6	Gives 15 Green energy	\$500,000 40 resources	nothing

# GLOBAL News

Global Simulation Newsletter

Year IX

## Green Energy Report



Industry working = 50 (- 12)

Oil used = 44

Green Energy used = 6 (+2)

Percent Green Energy used = 13% +7%

Target Green Energy use by year 13 = 80%

## Nuclear Fusion Breakthroughs

Nuclear fusion - the reaction that powers the sun - has the potential to unlock clean, affordable energy for planet Earth. Recent months have seen a flurry of breakthroughs as scientists strive to replicate the reaction and harness this virtually limitless energy source.

Fusion is a nuclear reaction in which two or more light nuclei (fuse together to form a single, heavy nucleus). The process creates a difference in mass, which is converted into energy. In the sun, this energy radiates away.

On Earth, if reproduced, this reaction has the potential to produce clean, safe energy in quantities that could solve the climate crisis. So it's no surprise that governments all over the world are investing in research to replicate the fusion process.

Nuclear fusion releases nearly [four million times](#) more energy than using coal, oil or gas, and four times as much as nuclear fission technology (in which a large atomic nucleus is split into smaller nuclei). This means that nuclear fusion has the potential to provide energy in quantities that could power homes, cities and whole countries.

To make this new research a reality 60 dice must show 6 of each number, to make it a reality.

## Global Weather Report

Storms continue to ravage the planet and are increasing with severity. Scientist are concerned that without major efforts to change the global use of oil by converting to green energy the world will be in serious trouble and storms will make life difficult to inhabit earth



# Local News for Each Country

## Canada

Multiple hurricanes have hit your country. **Return \$100,000** to repair damage done. **Return 1 blue pins from your country as glaciers have dried up and lost due to the accelerated melting caused by global warming.**

## United States

The people of the US are disappointed that only 78% of their population was able to work last year. The people of the USA are upset that you went to war and were not able to fund the jobs at home. They are marching in the streets demanding jobs. **10 Military must stay at home to deal with the protests.** Your country is having a problem with drugs.. **Return \$200,000 since your industry is disrupted.** 1 industry was forced to close **Return 1 blue pin from your country as a glacier has dried up and is lost due to the accelerated melting caused by global warming.**

## Mexico

The people of Mexico are pleased that they were able to work but ask that the government improves their lives with greater access to health care, education, cultural centers, and increased jobs. They violently protesting in the streets demanding more health care, education, cultural centers. Drug cartels are using Mexico to transport their drugs north to the United States and Canada. This is disrupting your economy as workers are being offered higher wages by the drug cartels. This has caused a drop in your yearly income **Return \$30,000 to the World Bank.**

## Russia

The people of Russia are pleased that 100% of their people were able to work last year. Your plan to deal with corruption in the government is working, provided you continue to fund your anti corruption measures. One Industry has reopened and will potentially provide income next year if it can be provided with food, oil/energy, and water . **Return 1 blue pins from your country as a glacier has dried up due to the accelerated melting caused by global warming.** The people of Russia wonder why you spend so much oil on a war with so little to gain. **Collect 1 yellow pin from the World Bank**

## European Union

The people of the EU are displeased that only 66% of their economy was able to work last year. Refugees are landing on your shores looking for asylum **develop a plan to deal with them.** **10 of your military are needed at home to support the refugee crisis, they may not leave the country.** **Return \$200,000 to deal with the refugee crisis on your borders.**

## China

The people of China displeased that only 70% of their population was able to work last year. They are marching in the streets demanding that the government improves their lives with greater access to health care, education, cultural centers, and sanitation. These protests are turning violent. **4 of your military must stay home** to deal with the protests. **Return 1 blue pins from your country as a glacier has dried up due to the accelerated melting caused by global warming.**

## Japan

The people of Japan are finally sitting comfortably knowing that their country can defend itself if invaded. They demand that the government spend the money to improve their lives, and solve their problems. The people are pleased that Japan's leaders have a plan to deal accept refugees into the workforce of Japan, but demand that they put the money forward to implement the plan. They are country wide strikes demanding that Japan deal with their problems, These strikes cost Japan their entire income from last year. **return \$50,000 to the world bank** for the disruption to the economy that the strike has caused. **Implement the plan to deal with your worker shortage** or the strikes will increase in their disruption. You have stated your plan requires \$100,000/year.

## Africa

They are pleased that they were all able to work, but feel they should have more access to health care, education, cultural centers, sanitation. The lack of food in Africa has lead to a mass exodus of people from the northern part of Africa.

## Greenland and Iceland

Greenland's glaciers are shrinking and it is projected that they will be lost in the coming years if nothing is done to mitigate the impending climate change. **Return 1 blue pin from your country as another glacier has dried up and lost due to the accelerated melting caused by global warming.** The people of Greenland are protesting and they were pleased to hear you but feel you must present solution and **they DEMAND you speak up** and force all countries try to work to solve the climate change problem, they want to hear your voice at the UN.

## South and South East Asia

The people of the South and South East Asia are pleased that 75% of their population was able to work last year. They are protesting in the streets demanding a better quality of life and greater access to health care, education, cultural centers, sanitation and increased jobs. Concern over global warming is rising in the population of S&SEA. **Return 1 green pin as land has been lost due to global warming.**

## Middle East

The people of the Middle East are pleased that all of their population was able to work. The people of the Middle east are concerned what the dropping oil production will mean for their livelihood. **Return 2 oil due to oil wells not producing as much. Return 3 Oil wells (black pin) as it has dried up and is no longer producing oil.**

## Australia

The people of Australia are happy that 100% of their population were able to work. Refugees are landing on your shores looking for asylum **develop a plan to deal with them.** **3 military are required to stay home to deal with them** **Pay \$60,000 to deal with the refugees landing on your shores.**

## New Zealand

The people of the New Zealand are upset they were unable to work last year. They demand their leader do better in the future. **Your military must stay home to keep the peace this year.** They ask their leaders to improve their lives with greater access to health care, education, cultural centers, sanitation and increased jobs. Refugees are landing on your shores looking for asylum **develop a plan to deal with them.**

## Brazil

The people of Brazil are having violent protests demanding more access to health care, education, cultural centers, sanitation. Drug cartels are converting farmland into drug production, and are looking to expand their production. If this happens you will loose food production. **At this time return 8 food to the World Bank, and 3 Farm (green pins) as the Drug cartels have taken over the farms.** The people demand that you work with other countries to solve this problem.

## South America

The people of South America wish to offer their congratulations to the new leader. They feel they should have more access to health care, education, cultural centers, sanitation. **Return 4 food as a result of drought.**

## India

They people of India are tired of their population of 1.4 billion people not having meaningful work and pay and are violently protesting in the streets as a result corruption is starting to take hold in India. **3 of your military must stay at home** to deal with eh protests. Your plan to deal with corruption in the government is working, provided you continue to fund your anti corruption measures. One Industry has reopened and will potentially provide income next year if it can be provided with food, oil/energy, and water . **Collect 1 yellow pin from the World Bank**