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| (NOT SO) SCI-FI ENERGY ALTERNATIVES | **Draft Date: 05/6/17** | **Draft or Revision Number: 1** |

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| **AUDIO**  | **ASSET/SHOT** |
|  | **GRAPHIC**(NOT SO) SCI-FI ENERGY ALTERNATIVES**FADE TO****1. Nuclear Fusion** |
| **VOICEOVER:** In the 1950s everyone thought an atomic car was just around the corner.  | A happy 50s guy is driving along in his 1956 Edsel. At the back it has a small canister with an atom sign on it. He’s driving into a city which has a sign “WELCOME TO ATOMIC CITY”Around the corner of an intersection comes another similar car. |
| **VOICEOVER:** What held this idea back—other than safety…**SFX**Metallic tink. | The cars crash lightly at the intersection and stop.PULL BACK as they explode in a huge nuclear blast which levels blocks. |
| **VOICEOVER:**was the search for the Holy Grail of future-energy generation: Nuclear Fusion.  | A scientist holds up a holy grail-like cup which is labelled NUCLEAR FUSION? |
| **VOICEOVER:**How to mimic the atomic reaction which occurs at the center of the sun in a small, controlled, way?  | The sun’s atomic reactions. PULL BACK into space. |
| **VOICEOVER:**Today, researchers have developed a compact fusion reactor which offers clean energy, no nuclear sludge— | A proud scientist, like this man, with a Lockheed Martin compact reactor (as in this example).http://198.74.50.173/wp-content/uploads/2015/08/COLL.McGuire-08062015-1.jpg |
| **VOICEOVER:**and could one day safely power homes or even cars. | A modern suburban street. Each house has a small reactor outside. Day turns to night and the lights flicker on.A woman pulls into a driveway in a modern Mini-Coupe. It has a small canister/reactor with an atom symbol on it. |
|  | **GRAPHIC**2. Deep Geothermal |
| **VOICEOVER:**In Jules Verne’s sci-fi classic Journey to the Center of theEarth, there were dinosaurs dwelling underground. | A cross-section of the earth as a tunnelling steam-punk vehicle moves down to the earth’s core. In a cavern, the vehicle stops and some people get out. A Tyrannosaurs jumps out at them, roars and they run back inside. |
| **VOICEOVER:**Unlikely. 99.9% of the Earth's core has temperatures over 1,000 degrees Celsius.  | A real cross section showing temperatures, such as.http://www.aoi.com.au/bcw/Heartfire/z_01.jpg |
| **VOICEOVER:**There IS high-pressure water, steam and hot rocks. Deep Geothermal looks at viable ways to drill deep and tap this energy. | A rig worker is drilling an exploratory hole into the ground using heavy machinery.Steam comes out. |
| **VOICEOVER:**It’s renewable, available day and night, and promises no pollutants. The answer might be right under our feet.  | He’s standing at the edge of the hole looking down. |
|  | **GRAPHIC**3. Space: The Final Frontier |
| **VOICEOVER:**How did Capt. Kirk power, or even get a signal on his space communicator? | Captain James Kirk shoots at some aliens and gets out his phone-communicator. He looks down—it shows only one bar.  |
| **VOICEOVER:**Space-based energy technologies could be the answer.  | He holds the phone up high and walks around looking depressed. |
| **VOICEOVER:**Harvesting hydrogen from the moon to power fuel cells on Earth? | A tractor with a guy in a space suit is ploughing up the ground on the moon. In the sky glows the earth. |
| **VOICEOVER:**Orbiting solar arrays that absorb sunlight and beam the energy back down to stations on the ground?NASA and other orgs are currently researching exactly these kinds of technologies. | An array of satellites in space above the earth unfold solar panels which begin absorbing light from the sun.PAN around a satellite. It has a big NASA logo on it. |
| **VOICEOVER:**The future might not be so far off as you think. Find out at the 2017 Future Energy World Expo. | Close on Expo logo and contact details. |