

Transcript for Eric Joseph and Campbell Weyland Knowing Nature through Technology

Podcast Script

1) Play 50 Cent ft. Justin Timberlake, Ayo Technology

2) Introduction of the Hosts:

- Eric: "Once again this is The Eric Joseph. We have a fantastic variety of interesting information coming your way on solar energy. We're bringing in the best of the best in their respective fields of energy and were going to hear from some of our listeners on their opinions about solar energy. I'm also joined by my colleague Campbell Louis Weyland.

- Campbell: "Top of the morning to ya. More importantly to the discussion about solar power we're going to analyze the effect that solar panels have on the way we view nature. Solar panels enable us to think about the way that we currently live in nature, and how we want to leave earth for future generations. But first let's here some background information on, "How Solar Energy Actually Works?"

3) Eric: "Thanks Campbell, Solar energy is power from the sun which is a vast and inexhaustible resource. To answer the question of "How Solar Panels Actually Work?" It's really a simple concept, the photons from the sun penetrate the cells within the solar panel, which then activate electrons, knocking them loose within the silicon layers. Electrons in the bottom layer of the silicon then shoot to the top of the cell and flow into metal contacts, as electricity."

4) Campbell: "That doesn't sound like much of a simple concept to me there Eric, but hey if it's helping the environment then I'm all for it. It seems that the more technology we invent in the modern world the more pollutants we put into nature, but it seems that Solar Panels may be the answer to smarter energy. From my research, there are no known global warming emissions associated with generating electricity from solar panels. Although, there is actually a hazardous waste connected with solar panels, but this is not an issue if manufacturers follow U.S laws to handle these chemicals safely and dispose of them properly.

5) Eric: "Correctmundo. You know what that means. It's time for our daily email. Today's email is from, Beddy Michaelson. The email reads:

- Hi Eric and Campbell. I am listening to the show right now and the discussion about solar panels is very interesting to me considering I installed solar panels on my roof this past summer. I am super pleased with my decision to invest in Solar Panels because I have cut my electric bill by nearly 75%, and I am doing my part in the fight against global warming. The only negatives I would say are the aesthetics of the solar panels. It is a very different look and I can see how some people wouldn't want to

install them. In my case I felt that the money we save on our monthly bills outweighed the aesthetics, so I couldn't be happier with our solar panels.”

6) Campbell: “ These points mentioned by Beddy seem absolutely true. It is exciting to hear that people are getting involved with solar energy. Maybe if there was a way to integrate the solar panels into the different types of roofing without noticing them, then solar panels would be a much more appealing option. I know that right here in Easton Pennsylvania, people are also getting involved in the natural energy craze. Just a couple miles away at Metzgar fields there is a turbine that uses the energy conducted from the wind to generate electricity. Also, just a few miles away from Metzgar, there is a giant solar panel farm that generates electricity for the surrounding towns. Next on the show, we were going to have Mr. Russ Ullinger to discuss the future and potential of solar energy”

7) Eric: “Hello Mr. Russ Ullinger, we are calling to hear some of your thoughts on the future of solar panels in the United States.” Play interview with Mr. Russ Ullinger. (<http://www.youtube.com/watch?v=dIaGHMcy-Po>)

8) Campbell: “ Thank you Mr. Ullinger it really seems like solar panels have come along way in the energy industry and have a bright future ahead of them. Looking at these solar panels, it has enabled me and I'm sure some of our listeners to think about how we impact nature today. From the analysis of how we impact nature today, we can then generate the discussion of how human beings want to leave earth for future generations.

9) Eric: Play inside of Coal Power Plant sound effects.

(<http://www.youtube.com/watch?v=wySZl6JIwQw>)

“ Were here at the Martin Creek Power Plant located in Martin Creek, Pennsylvania. Today our primary way to attain energy is through the burning of fossil fuels such as coal and oil. In today's modern world we use fossil fuels for power plants, vehicle engines, coal power plants, and oil for heating. Scientificamerica.com reported that “natural gas and oil accounted for 87 percent of the world's primary energy consumption last year” and cbsnews.com recently reported that “Carbon dioxide emissions have risen to 2.4 million pounds per second.” As human beings we consciously making the choice to continue to burn fossil fuels for energy. I'm now going to have my co-host Campbell tell you the impact these choices are having on our nature.

10) Campbell: “The more fossil fuels we use, the more our environment suffers. It is amazing that we continue to use fossil fuels while we have solar energy at our disposal. Ice caps are melting, animals are dying, temperatures are rising, and sea levels are rapidly increasing. Whether or not you chose to accept it, it is up to you as a listener, but it seems quite apparent to me that the effects of using fossil fuels is causing global warming and other natural disasters. Next on the show we were going to have our team of reporters share the information they have gathered on how human beings are effecting nature through their use of fossil fuels.

Our report is on the BP Oil Spill and horrific effect this has had on the surrounding nature:

<http://www.youtube.com/watch?v=-OVNd6Fa9fg> (1:10- 1:27) Bp Oil Spill

11) Eric: “ It is disappointing and shocking to hear the negative impact that human beings are having on nature. The discussion of solar panels allows ourselves to reflect upon our effect on nature, but also lets us decide how we want to leave earth for future generations. Over the past 5 minutes we have uncovered so many problems with fossil fuels that it seems imperative that we use solar panels. We need change in the energy field so future generations can live in the same fantastic environment that we live in today. Solar panels can satisfy our energy needs while reducing our environmental impact. Solar panels have so much upside that it is hard to argue against them. Similar to our discussion with Mr. Russ Ullinger and so many of our listeners, the benefits of solar panels are endless.

12) Campbell: “ I would agree with you, Eric that solar panels are our answer to reduce our environmental footprint. Im now going to discuss three main benefits that I think make solar panels the best energy source:

Number 1: A typical solar panel produces around 200 watts of power. To put this into perspective, one basic old-fashioned lightbulb uses 60 watts of electricity. Laptops often use about 45 watts, and desktops can run between 150-300 watts. Window air conditioning can range between 500 and 1500 watts, and central air conditioning can use 3500 watts. From these statistics, Solar panels can be a very efficient and effective way of generating electricity for household items.

Number 2: Solar panels provide energy reliability and independence. Everyone knows that the sun is going to rise and set everyday(at least we hope so). With the exception of clouds which may be a bit less predictable, solar panels produce a steady generation of electricity. Also, Once you have installed your solar panels, you have an essentially independent source of electricity that is at your disposal whenever you need it.

Number 3: Unlike any other type of energy, Solar every can save you money. The average 20-year savings for Americans who went solar in 2011 were projected to be a little over \$20,000. In populous states like New York, California, and Florida the projected savings were over \$30,000. Wow thats crazy Eric.

14) Eric: “ If you are not convinced by now that solar energy is best energy for the future then you will never be convinced. In this podcast, Solar panels have allowed us to reflect upon how we as human beings are abusing nature and has allowed us to see the necessary changes we need to make in order to preserve our environment . The simple answer to help preserve the earth for future generations is, solar panels. Solar panels helps to reduce the need to burn fossil fuels and the adoption of solar energy means a correlating drop in air pollution and greenhouse gases. So the next time you are going to make an investment, think about getting solar panels. Not only will you be saving yourself money, but also doing your part in preserving nature for many more years to come.