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Are the solar panels roadways the future?

Imagine the roadways can produce energy, how cool is that? I am here to convey you that the solar panels roadways are the next necessary step to the future. You might ask “what’s wrong with the roadways now?” Let’s think about energy in the most simplistic idea, all the energy resources on earth are came from the sun lights, if some of the heat that asphalt roadways absorbed from the sun can turn into electricity energy. So I claim that the solar panels roadways are necessary.

It was first a simple idea from the Brusaw couple, Scott and Julie; they thought the solar panels are only installed on the rooftop, if every squared miles of United States is covered with solar panels; the solar panels roadways can technically pay for the electric bills. So what is “Solar Panel Roadways”? Unlike the asphalt roadways, the solar panels roadways are designed with multiple micro electric generators that can turn heat into electricity.

On the website, solarpowerrocks.com author Dave Llorens claim that the energy the sun gives out on a sunny day can power 2880 trillion light bulbs for an hour. If a standard light bulb requires 60 watts per hour to power up, the sun is approximately producing 172800 trillion watts a day.

“Since a 60 watt bulb consumes 60 watt x hours in one hour, or 60 Wh x 24 hr/day = 1440 Wh per day and there are 120 trillion square meters in our atmosphere, that’s like dropping 120 TRILLION 60 watt light bulbs and still having enough electricity in one hour of sunlight for ALL of those light bulbs to shine for 24 hours!”(Dave) however most of the energies from the sun are being wasted down the drain; statistically speaking, only 0.1% of the sun energy turns into electricity. It is highly un-efficient to convert the sun energy; 172627.2 trillion watts are being wasted in a day. Therefore, with the intervention of the solar panels roadways; United States’ sun energy usage would increase from 2% to 15%.

Solar panels roadways can also provide transportation. As the technology advances, the invention of electric car has become popular throughout years. Author Hemlock Doreen described that a computer specialist who named Andrew McClary has built his own electric car based on the 1968 Ford GT40 sports car “He took about six months to remove the car’s gas-related components, install batteries and get it on the road.”(Hemlock) If a single household can provide itself for an electric car, the demand of electricity usage would increase, and the number of electric cars within the United States would only increase, because the pollution of gas using cars are harming the environments; therefore solar panels roadways seem to be the only “way out”, because the generated electricity can also be provided to charge the batteries within the electric cars. It is assumed that electric stations would be the replacement of the gas stations, since the batteries can last 100 miles – 150 miles, so the number of electric stations would be more than the gas stations. In conclusion the solar panels roadways can also provide jobs in a long run.

Have you ever had troubles of driving through asphalt roads that are covered with pot holes? Have you ever had that close call of running into a dear in the middle of the road? Have you ever needed to take days off from a bad snow storm? According the solarroadyways.com the solar panels roadways can solve the problems; the solar panels are created with highly durable temper glass with traction texture, the temper glass is meant to sustain the harsh repeated threshold. Beneath the temper glass, there are the heating elements used to heat up the temper glass during snow storm, so the solar panels roadways surface won’t be frozen. Beneath the heating elements, there are LED lights that used to represent various figures; it is useful, because the LED lights can display all the information that is currently happening on the road. The solar roadway can also act as a wi-fi hot spot, so the driver or passenger can get internets anywhere, even in the desert.

It is convinced that the solar panels roadways will be the national power house, where the solar panels roadways can economically provide for the nation. The solar panels roadways can also create jobs by fasten up the demand of electric cars. At the end, the solar panels roadways provide safety and entertainments.

Works Cited

Dave Llorens, “How much energy does the sun produce?(and other fun fact)” October 12th, 2009

Introduction “solarroadways” 2015

“**Comparison Char LED Lights vs. Incandescent Light Bulbs vs. CFLs” 2015**

**Hemlock Doreen “Spending too much to gas up?” Tribune content agency LLC April 12th, 2012**