

Clean Energy for ALL

The importance of new emerging power generating technologies and others can't be over-stated. For the past 120 years, the world has been powered by fossil fuel and the terrible scars it has left behind are undeniable. From air, ground and water pollution to the degeneration of our communities to the ultimate, very complicated but very real polar melt down due to global warming. There is no doubt, climate change is here and it's due to our own need for power. The industrial revolution turned the lights on and we can't seem to be able to turn them off nor can we stop driving.

And in a way, why should we be forced to stop driving or turn the lights off or go back to the Stone Age. Every human being has the right to live better but we should live smarter. We, the people, should demand better living conditions but without all the destruction and devastation to our environment. In times past, the inability for governments to provide inexpensive, clean and abundant energy has been driven by costs.

Magnetic Transducer Generator

- EFE has developed a technology that will redefine the electrical energy generation sector. The Magnetic Transducer Generator (MTG) provides access to an inexpensive, continuously available, and non-polluting method for generating electrical energy in a format that is applicable in both small and large-scale, fixed and portable, energy scenarios. The MTG is currently available in two models with generation capacities of 1.3MW, 5MW and 20MW, respectively, and is easily customizable to smaller scales or larger scales.
- Flexibility and functionality are two key elements of the MTG technology that make it ideal for many energy generation scenarios. The MTG can be affixed to existing energy grids as a method to improve energy efficiency in urban areas, or used to develop mini-grids in rural areas that lack access to energy. The MTG can also function as a standalone energy source for mining companies, medical facilities, research centers, construction firms, as well as other industrial and commercial Enterprises operating in remote locations.

Potential Applications

- **Utilities (grid and mini-grid):** The MTG is the ideal technology to affix to existing energy grids as a method to improve energy efficiency, increase energy capacity, and to ensure reliable, clean, and continuous energy in urban areas. The MTG is also suitable for developing mini-grids in rural areas that lack access to reliable, clean, and efficient energy. EFE is building strategic partnerships with utility providers that are suitable for adopting MTG units into their energy mix.
- **Commercial and Industrial Ventures (off-grid):** The MTG also provides a highly efficient and practical solution as a standalone energy source. Due to the low cost, versatility, and portability of the technology EFE is targeting mining companies, research centers, medical facilities, construction firms, as well as other commercial and industrial enterprises operating in remote locations as ideal customers.

Food for Thought

- The average American home consumes approximately 900 kWh of electricity per month depending on location. 1.3MW of wind power can technically produce enough energy for 300 households in one year. Wind power is intermittent and variable, not to mention very expensive. As a result, industry estimates suggest a 30-40% output while real world experience exhibits output in the 15-30% range*. A 1.3MW Magnetic Transducer Generator has the capacity to provide uninterrupted, clean energy 100% of the time. So, how many homes can be powered by a 1.3MW MTG unit in a rural setting where load demand is significantly less than the average American home? *GWEC 2015

We Stand By Our Products:

- EFE is committed to creating and maintaining reliable and optimally functioning products for our clients. The MTG comes with a standard warranty to ensure our customers maintain peace of mind. Customers may also opt for our extended warranty package to last the lifetime of the unit.

Cost of Energy

According to Energy Innovation published analysis on February 7, 2015:

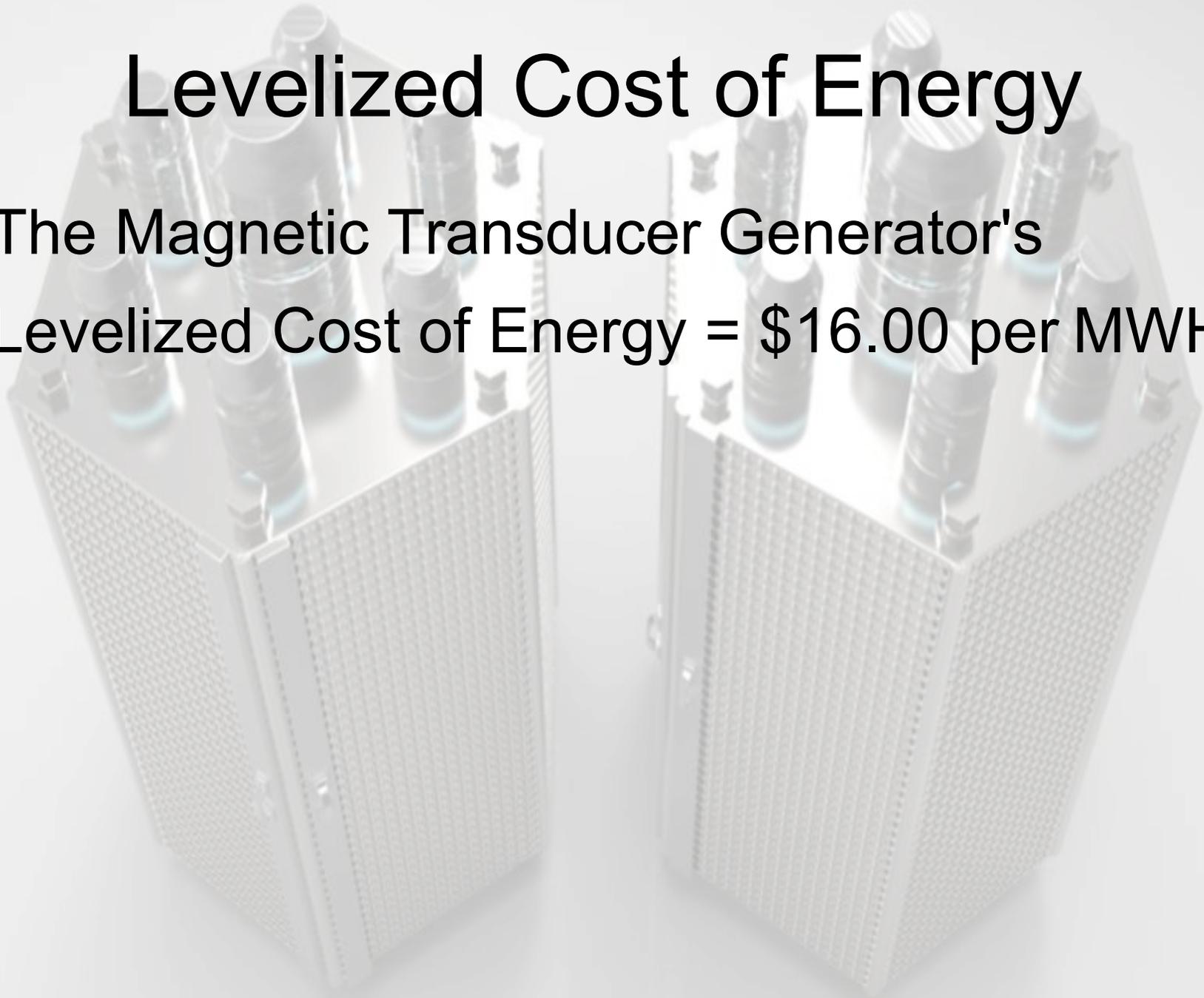
“Onshore wind has the lowest average levelized cost in this analysis at \$59 per megawatt-hour, and utility-scale photovoltaic plants weren’t far behind at \$79. By comparison, the lowest cost conventional technologies were gas combined cycle technologies, averaging \$74 per megawatt-hour, and coal plants, averaging \$109. These numbers are the average of Lazard’s low- and high-end estimates (Refer to their published study)

Looking across the 16 technology types, the 10 alternative technologies cost an average \$147 per megawatt-hour, \$18 less than the conventional approaches. “Certain Alternative Energy generation technologies,” Lazard wrote, “are cost-competitive with conventional generational technologies under some scenarios.”

By dividing the costs among capital, fuel, and operations and maintenance (O&M), you can see some dramatic differences among the technologies. Many renewable technologies, such as wind, solar, and geothermal, may not be cheap to build, but they have no fuel costs once they’re up and running, and generally have lower O&M costs as well.”

Levelized Cost of Energy

- The Magnetic Transducer Generator's Levelized Cost of Energy = \$16.00 per MWH



What We Stand For

- EFE is committed to providing electricity to communities around the world. In doing so, EFE is developing a range of clean energy products in a socially, economically, and environmentally responsible manner.
- EFE is a Canadian-based company striving to be an industry leader by providing efficient, cost-effective, and viable clean energy solutions in order to create a model for sustainable power generation for years to come.
- EFE along with Sustainable Solutions Consulting, LLC and Water Technologies International Inc. are working hand in hand to bring clean power everywhere
- Imagine; Clean, no heat, little noise, no vibrations, no harmful odors or radiation and best of all – NO FUEL.

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