
Future Energy eNews

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Future Energy eNews



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Hello Tom,

Along with this Labor Day weekend with good weather here in the US, we are happy to share some new developments in energy and bioenergetics with you.

Story #1 is a lengthy buildup to the discovery of a new catalyst for electrolysis to produce hydrogen at **1/16th of the cost**. Northwestern University says, "one composition stood out: a precise combination of all four metals (Ru52Co33Mn9Cr6 oxide). Multi-metal catalysts are known to elicit synergistic effects that can make them more active than single-metal catalysts. 'Our catalyst actually has a little higher activity than iridium and excellent stability,' Mirkin said. 'That's rare because oftentimes ruthenium is less stable. But the other elements in the composition stabilize ruthenium.'" We hope it will be commercially available soon.

Story #2 is just as the title states, **Solar for All** is no more. For unknown, unscientific reasons, a \$7 billion grant program for solar was terminated by the EPA even after the funds were already approved by Congress in the Inflation Reduction Act three years ago. The program was specifically focused on reaching low-income households and communities but not allocated under a binding agreement, so the Midwest and Great Plains will no longer receive awards for installing solar PV systems, including a 2.3 MW solar farm on land already owned by the South Sioux City.

Story #3 is a more positive news item showing more environmental consciousness in other countries, as contrasted with the US. **Rocky Mountain Institute (RMI)** has been a leader in clean energy and environmental developments saving people money and expense while making a switch to alternative energy. To get inspired with [the future-oriented 18 start-up companies](#) that RMI is working with, click on the link in this sentence and prepared to be wowed. All have embedded links to their homepages too. One inspiring example is "[Dynami](#)

Battery: Enabling 5x faster charging and higher capacity batteries using patented micro-structuring technology that enhances battery physics." However, all are amazing.

Story #4 is a revelation since superhuman endurance achievements by unknowns is rare. In addition to the main article about this Raramuri female runner who is still in her spiritual trance after winning the 63 km race (no smile on her face), there is a more in-depth article by a biological anthropologist who studied the indigenous race in Mexico. This reminds me of the similar but more brutal ultramarathon: The **Self-Transcendence 3100 mile** was founded by Sri Chinmoy out of his wish to create an opportunity for runners to discover the limits of their capacities and to try to go beyond them for *three, six, or even ten days straight*, covering **an average of 100 km (60 miles) each day!** As their website explains, "There comes a point in a race when one's physical prowess has reached its limit. To continue on, the runner must rely on his or her own inner determination, and tap into the infinite spiritual power that is within us all, which Sri Chinmoy called the soul, the representative of the ultimate Divine Being."

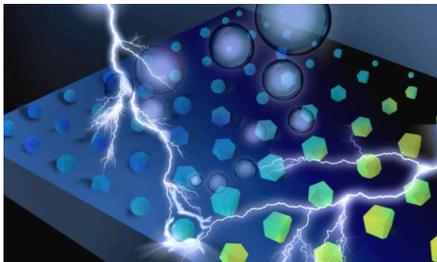
Story #5 could have been the lead story since it is so remarkable in bioelectronics alternative medicine, that a book has been written about the importance of the vagus nerve as well. When drugs fail, vagus nerve stimulation with an invasive surgery implant in the neck is used to achieve at least a 30% success rate in reducing rheumatoid arthritis (RA) symptoms with a daily one minute electrical stimulation. As Dr. Chernoff explains, "There is a nexus between the brain and the immune system, which happens to be mediated by the vagus nerve," he told Medscape Medical News. The device takes advantage of the vagus nerve's anti-inflammatory properties, stimulating the nerve to help regulate an overactive immune system of someone with RA. However, as other bioelectronic surgeries have progressed, such as bone fracture healing, there comes a time when the bioelectrical engineer invents a magnetic pulsing device that effectively creates the SAME electrical pulse internally. May we suggest, that with our magnetic pulsing, anti-inflammatory, HSP70-activating EM Pulser 78, it is very possible that RA patients **may also equally benefit** from alternatively using the EM Pulser 78 on their neck area where the vagus nerve is most accessible. With the IRI 30-day trial they are bound to find out if it helps them.

Just for Holiday entertainment:., Recently, America's Got Talent issued a "Most Viral Winner Auditions Ever" which I just had to share with you too. They are the most emotionally satisfying talent we have ever seen on that show in only one hour of video. I hope you enjoy the holiday.

Sincerely,

Thomas Valone, PhD,
Editor

1) Scientists Discover a Cheaper, More Powerful Catalyst for Clean Hydrogen Energy



Scitech Daily August 2025

Recently, researchers succeeded in identifying a substitute using a groundbreaking tool, and they did it in just one afternoon. Developed at Northwestern University, the tool is known as a megalibrary. Described as the world's first nanomaterial "data factory," a single megalibrary holds millions of carefully designed nanoparticles arranged on a chip no larger than a fingertip.

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2) 'A sad ending': Nebraska communities prepare to scrap 'Solar for All' projects after Feds terminate funds

Nebraska Public Media August 2025

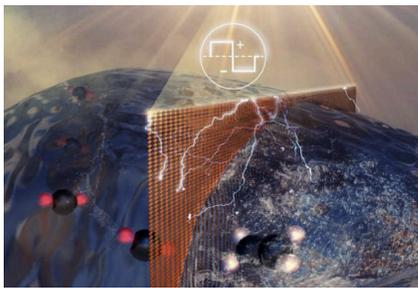
Municipalities and nonprofits across the country may have to abandon planned solar energy projects after the Environmental Protection Agency announced it was terminating a \$7 billion grant program to expand

solar access. The Solar for All program was established by the 2022 Inflation Reduction Act with the goal of expanding solar to municipal public power agencies, multi-family housing developments and single-family homes. The program was specifically focused on reaching low-income households and communities.



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3) 18 Climate Tech Startups From Six Countries to Climate Tech Accelerator Third Derivative



RMI.org August 2025

Third Derivative, RMI's global climate tech accelerator, welcomed 18 new startups from six countries across four continents this week — including the accelerator's first-ever startup from New Zealand. "From scalable bamboo building systems to modular green hydrogen, recyclable wind turbines to zero-emission cooling, these startups represent the cutting edge of global climate tech innovation" said Rushad Nanavatty, Third Derivative Managing Director. "Our class-leading portfolio continues to stay ahead of the emissions – by focusing on the

industries, sectors, and geographies that are going to be the most consequential for our planet in the decades to come."

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4) Mexican indigenous runner Candelaria Rivas Ramos won a 63km ultramarathon in 7 hours, 34 minutes



Google News August 2025

According to a race-results announcement published on the Chihuahua state government website, Rivas is a member of the Rarámuri, an indigenous group local to the region whose traditions involve long-distance foot races and persistence hunting, a style of hunting involving simply driving prey to exhaustion over a long period of time.

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5) Vagus Nerve Stimulation Proves Effective in Refractory Rheumatoid Arthritis

edifacts August 2025

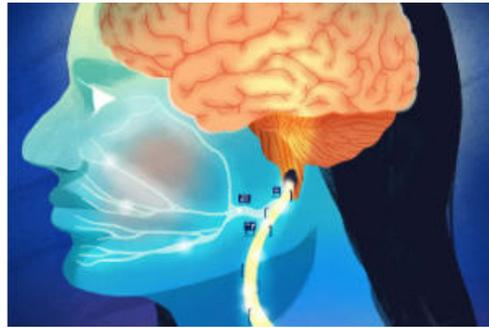
An implantable vagus nerve stimulation (VNS) device effectively treats moderate to severe rheumatoid arthritis (RA) in patients who had previously failed at least one biologic or targeted synthetic disease-modifying antirheumatic drug (b/tsDMARD), according to results from a phase 3 trial.

RELATED STORIES

[Unraveling the Secrets of the Vagus Nerve](#)

[Vagus Big Nerve](#)

[Kevin Tracey, MD, reveals vagus nerve's power in new book](#)



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