Outlook

Future Energy eNews

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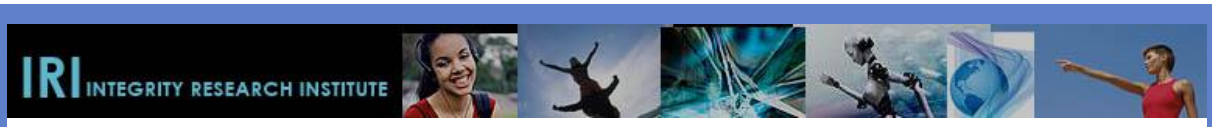

Future Energy eNews

October 2025 Vol.26
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IN THIS ISSUE

Greetings!

As we get used to cooler weather in the Northern states, some of us dream of the concept of free energy for electricity and winter heat supply. My favorite video in that regard is from Prof. Garret Moddel (U of Colorado) on "**Can We Harvest Zero-Point Energy?**" (ZPE) interviewed by Jeffrey Mishlove, host of **New Thinking Allowed** online. This is one of his best since it is presented for the lay audience in simple, easy-to-understand language and diagrams, with the best free energy breakthrough yet today, since Dr. Moddel has achieved a solid-state ZPE product, with his grad students, approaching commercial readiness soon.

I mention the previous detail because I will also be promoting this for *Dr. Moddel's ZPE Lab* on two upcoming interviews of my own: 1) The Ryan Files (Oct. 29), and 2) **Coast to Coast AM** (Nov 13) with George Noory. (The link to Coast to Coast AM, the largest audience radio in the country, has all of the local syndicated US radio stations list by state and links to Android, iOS, Sirius ZM, and iTunes for your convenience.)

Story #1 runs along the same line of perpetual motion as the ZPE breakthrough above. Developed by the Johannes Kepler University Linz, Dept. of Soft Matter Physics in Austria, the **Solar Hopper** has a unique charge-flight-charge cycle to ensure continuous operation. It has a remarkable 44W per gram power output, with perovskite solar cells that are thinner than a human hair. It is a small quadcopter with a range of control electronics and 20% power efficiency.

Story #2 looks like an R&D project which is very ambitious by a Los Angeles startup https://www.inversionspace.com/. With aims of deliveries anywhere in the world within an hour,

we would expect a guided electronically controlled trajectory but it seems that a the "**highly-maneuverable re-entry**" is still in the testing stage. Check back next year for deployment.

Story #3 is more down to earth with 162 square miles of solar panels. While China still burns as much coal as the rest of the world combined, last month President Xi Jinping made a stunning pledge. Speaking before the United Nations, he said for the first time that the country would reduce its greenhouse gas emissions across its economy and would expand renewable energy sixfold in coming years. **Achieving 17 Terawatts** of power with this Talatan solar installation in Qinghai, it is still expanding, adding panels with a target of growing to 10 times the area of Manhattan in three years. The video link is informative.

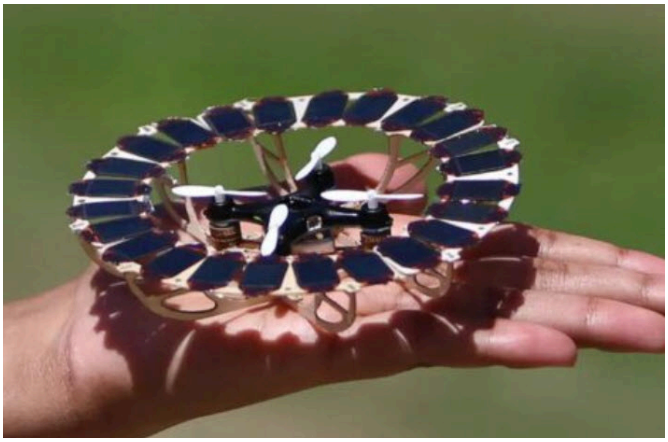
Story #4 also has a video link from PBS News to explain how heat pumps are now **paired with geothermal** wells in Massachusetts to be far more efficient and stable, no matter what the weather is. Now the story of an unlikely partnership can be told between a utility company and climate activists and how they worked together to help one community switch its heating and cooling to a cleaner source. **Eversource** installed a pilot of a one-mile network of underground pipes connecting three dozen homes and municipal buildings to a shared geothermal well, which works surprisingly better than expectations. Reminds us of the MIT Study years ago that found the United States has an abundance of geothermal energy ready to be tapped.

Story #5 is a great resource for the **best and brightest startups** that provide amazing improvements for **renewable energy solutions.** Learn about these companies https://www.third-derivative.org/portfolio/tag/cohort-25-3 in depth or simply from the RMI list which has active links. From hydrogen to wind to decarbonization, these are very inspiring partners to the Rocky Mountain Institute, a top favorite of IRI. A division of RMI, uniting and aligning investors, corporations, and experts with the world's most promising climate tech startups, Third Derivative bridges finance and resource gaps to increase the speed to market. View the RMI Third Derivative's portfolio of 286 climate tech startups: https://www.third-derivative.org/portfolio from 27 countries and 4,400 jobs created.

Onward and Upward,

Thomas Valone, PhD,
Editor

1) Paper Thin Solar Device Runs Forever



Ecopulse.com October 2025

The researchers integrated 24 perovskite cells into a commercial CX10 miniature quadcopter's frame, which they called the Solar Hopper. The frame fitted with perovskite cells accounted for just 1/400 of the drone's total weight. The Solar Hopper was able to execute consecutive charge-flight-charge cycles without the cord charging. This made it highly efficient and sustainable.

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2) Arc spacecraft: It aims to deliver cargo anywhere in the world

Ars Technica October 2025

A relatively new spacecraft company, Inversion, revealed its new “on demand” delivery vehicle Wednesday evening during a splashy ceremony at its factory in Los Angeles. The company said it is building the Arc spacecraft to provide a capability to the US military to deliver as much as 500 pounds (225 kg) of supplies almost anywhere in the world, almost instantaneously.

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3) China Built 162 Square Miles of Solar Panels

NYTimes.com October 2025

On the Tibetan Plateau, nearly 10,000 feet high, solar panels stretch to the horizon and cover an area seven times the size of Manhattan. They soak up sunlight that is much brighter than at sea level because the air is so thin

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4) Cleaner Geothermal Energy Network

PBS News October 2025

Unlikely partnership between a utility company and climate activists how they worked together to help one community switch its heating and cooling to a cleaner source. All this in Massachusetts. Heat pumps live up to their name. They move heat. In the summer, they pump heat out of your home. In the winter, they bring it in. How hard they have to work and how much electricity they use depends on the temperature difference between inside and outside. The greater the gap, the more energy they need. A heat pump paired with a geothermal well has less work to do and is far more efficient no matter the weather above.

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5) RMI Welcomes 18 Climate Tech Startups

RMI News October 2025

“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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