Outlook

Future Energy eNews

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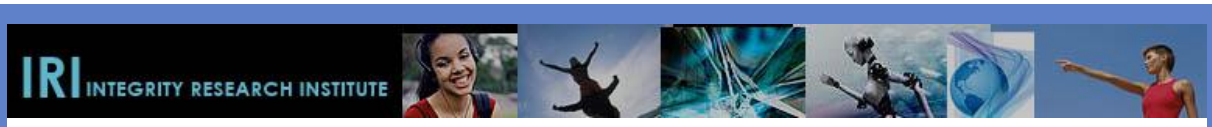

Future Energy eNews

February 2026 Vol.27
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IN THIS ISSUE

Greetings!

Some of us may feel like we are getting older. If so, it is wonderful to get some assurance against dementia. A new study with 3000 people 65 and older provides just that evidence. The BrainHQ exercise called "Double Decision" is surprising since it involved 2 hours a week for only 5 weeks and the benefits (no sign of dementia in all participants) lasted for at least 10 years. Of course, I signed up and you can too https://v4.brainhq.com/?signup=success&fr=y# at $8 a month and cancel anytime. A reasonable price to save your brain.

By the way, we are just about finished with the herculean task of squeezing the entire content of our twelve conferences (COFE1-12) into one Version 2 flash drive called the Silver KEY 64 GB, with expanded contents of as many MP4 videos, papers, and slideshows as will fit. This KEY is 4 times the volume of our black Version 1. It is like we are giving away the entire library to the public during the present, pre-release sale, since the price for the month of March 2026 is only $49. Delivery is expected upon production by the end of March.

Story #1 gives credit to Nikola Tesla for its wireless transmission of power for EVs. The Swiss Lab also provides a nice one minute video showing how inductive charging works. Hopefully it will be adopted in the US as well as other Western countries too.

Story #2 is quite a leap forward into the realm of the brain-mind conundrum, where the elusive chemical junction space between neurons is the only scientific explanation for cognitive memory today. Then comes slime molds, plants, and even single-cell organisms, all without brains, that exhibit an extended "scope of cognition." At Tufts University (where I presented my climate slideshow for IEEE, now in book form), Dr. Levin is applying cognitive tools to gene regulatory networks (GRNs) and even

trains them "in a way that requires a kind of memory." This fascinating work blurs the line between molecules and consciousness by demonstrating certain "chemical systems as agents acting with some degree of purpose."

Story #3 shows the catalyst we needed to yield green hydrogen for the future. Lead author and PhD candidate Luis Campos said, “We now have a way of extracting sustainable hydrogen, using seawater, which is easily accessible while relying solely on light for green hydrogen production.” The process is also circular. After hydrogen is released, the gallium oxyhydroxide formed during the reaction can be converted back into gallium and reused for further hydrogen production, which seems to be practical and scalable.

Story #4 is a really unusual chemical breakthrough. Lawrence Berkeley Labs experimented using a salt made with iodine and sodium to melt ethylene carbonate. With less than one volt of electricity, they were able to get a 25 C (45 F) decrease in temperature, a result that exceeds what other caloric technologies have managed to achieve so far. Eventually, these systems could be used for heating as well as cooling. Their paper, "Ionocaloric refrigeration cycle" is published in ***Science*** https://www.science.org/doi/10.1126/science.ade1696.

Story #5 follows up on the Australian free energy story from last month by showing how they got there. Turns out that the 73% combination of wind and solar has given South Australia a "truly fossil fuel-free grid" and excess energy to give away during off peak hours, as reported last month in FE eNews. With 24 onshore wind farms and incentive programs for households to install solar, the excess is fed back into the grid. The article ask us, "**can the rest of the world follow suit?**"

Best to all,

Thomas Valone, PhD,
Editor

1) Wireless Charging EV's

Power Technology. January 2026

Convenient wireless charging has become a reality for electric vehicles. Experts at Empa, the Swiss Federal Laboratories for Materials Science and Technology, have developed ground-embedded coils that can begin charging EV batteries as soon as the car is positioned above them — no cable needed. If the wireless chargers are placed in parking spaces, where EVs sit idle for most of the day, the vehicles could also be leveraged to support the electric grid thanks to bidirectional inductive charge tech that uses magnets.

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2) Molecules are Teaching Us What a Mind Is

New Scientist February 2026

Networks of molecules in our body behave as though they have goals and desires. Understanding this phenomenon could solve the origins of life and mind in one fell swoop

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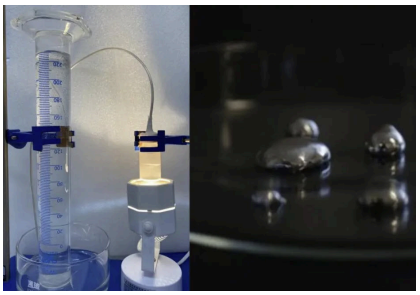
3) Liquid gallium turns sunlight and seawater into clean hydrogen



IE.com February 2026

Researchers at the University of Sydney have developed a sunlight-powered method to produce clean hydrogen from both freshwater and seawater using liquid metals.The process avoids several long-standing barriers in green hydrogen production, including the need for purified water and high energy inputs. The technique relies on liquid gallium, a metal with a low melting point, to extract hydrogen directly from water when exposed to light.

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4) Scientists Invent an Entirely New Way to Refrigerate

Science Alert, February 2026

Say hello to ionocaloric cooling. It's a new way to lower temperatures with the potential to replace existing methods of chilling things with a process that is safer and better for the planet. Typical refrigeration systems transport heat away from a space via a fluid that absorbs heat as it evaporates into a gas, which is then transported through a closed tube and condensed back into a liquid. As effective as this process is, some of the choice materials we use as refrigerants are particularly unfriendly to the environment.

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5) Wind and solar combined for fossil fuel freedom

New Scientist, February 2026

South Australia is a renewable energy champion and now plans a truly fossil fuel-free grid. How did it make such a remarkable turnaround, and can the rest of the world follow suit?

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