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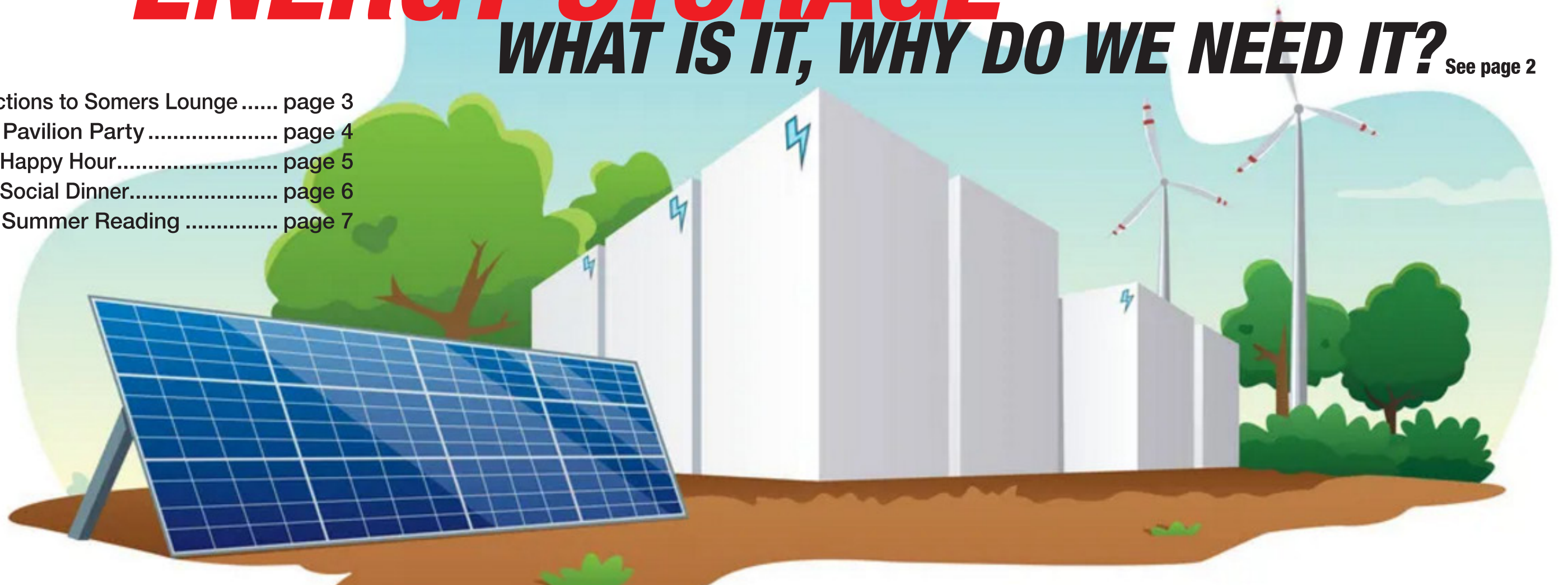
NEWSLETTER OF THE LAKE SUPERIOR FREETHINKERS

Join us Sunday July 3rd at 10am at St. Scholastica's Somers Lounge to hear Russ Mattson discuss

ENERGY STORAGE

WHAT IS IT, WHY DO WE NEED IT? See page 2

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LAKE
SUPERIOR
**FREE
THINKERS**

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FREETHINKERS**

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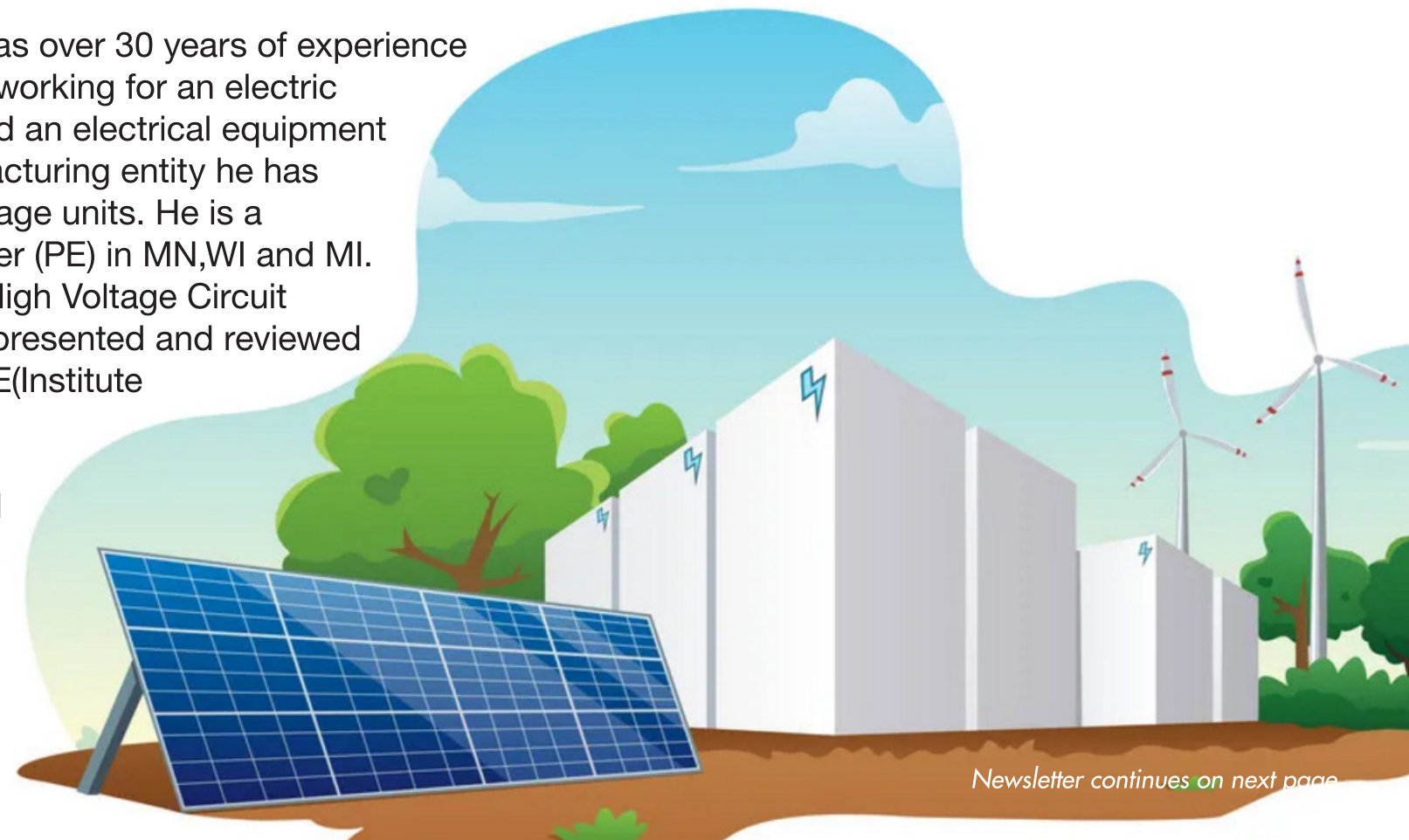
ENERGY STORAGE

WHAT IS IT, WHY DO WE NEED IT?

Our path to net zero in 2050 requires renewables, wind, both land based and offshore, solar as well as other sources. Both solar and wind are either intermittent or unpredictable or both. These intermittent sources then require energy storage to provide electric power on the grid 24/7. Energy storage technologies are absolutely essential in the replacement of fossil fuels with renewables. Energy storage systems will play an increasingly pivotal role between green energy supplies and responding to electricity demands.



RUSSELL MATTSO *PE* has over 30 years of experience in the power engineering field working for an electric utility, consulting engineers and an electrical equipment manufacturer. With the manufacturing entity he has worked on battery energy storage units. He is a registered professional engineer (PE) in MN, WI and MI. Mr. Mattson holds patents in High Voltage Circuit Breaker technology and have presented and reviewed power systems papers for IEEE (Institute of Electrical and Electronic Engineers), EEI (Edison Electric Institute) and has given several power industry related presentations at the University of Minnesota, Power Systems Conferences.



Directions to St. Scholastica's Somers Lounge, 1200 Kenwood Avenue



NEXT PAVILION PARTY SATURDAY JULY 23RD

Pavilion Parties continue on the fourth Saturday of each month at the home of our “Flounder”, Bill Van Druten.



Plan to arrive at 1pm. Bring a food item you have made, or maybe an interesting libation to share with other attendees. We'll talk and laugh at Dr. Van Druten's home: 2931 Greysolon Road in Duluth. Park anywhere on Greysolon Road but not on 30th Avenue!

JOIN US FOR HAPPY HOUR

4:00-6:00 pm Thursday, July 7th at Mexico Lindo, Fitgers Brewery Complex

Mexico Lindo will validate your parking and we will validate your skepticism about religion. See you there!

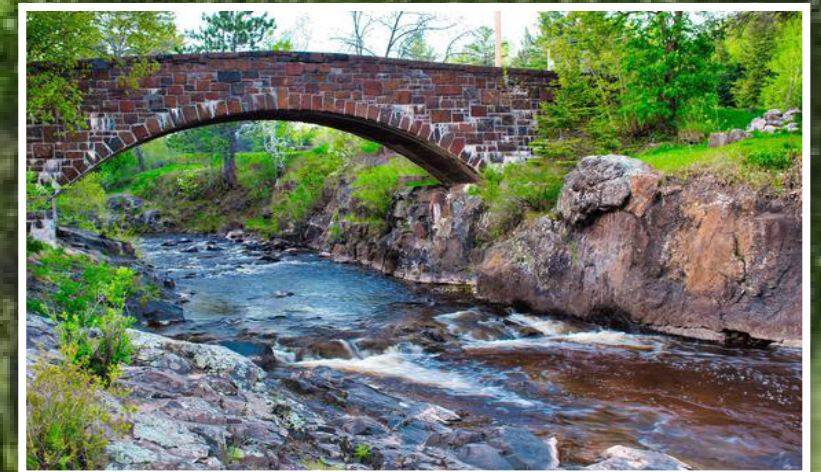




JULY SOCIAL DINNER



Join us July 20th at 5:30pm
at Lester Park for LSF's 2nd
Summer outdoor Social
Dinner. Bring your own
food and beverage.





LSF SUMMMER READING

Due to the generous donation of a superb book collection, we have been able to set up a library for use by our members. The collection can be viewed by using the Library link on our website, LSFreethinkers.org, or by going directly to the library at <https://LSFLibrary.librarika.com>. You will have to become a library member in order to check books out. That can be done by sending a request to Linda Crumpton who will house the collection and act as librarian. The library's email is LakeSuperiorFreethinkersBooks@gmail.com. Once you have an account, you can make arrangements to get the book. Requested books can be brought to our first Sunday program, or picked up or delivered in another way. We hope the collection will get a lot of use and will grow over time. If you have any questions, contact Linda using the library's email address.