

## European Solar and Energy Storage Solutions

# Stone edge farm microgrid Faroe Islands



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### Stone Edge Farm's microgrid and the future of energy

Stone Edge Farm has developed a state-of-the-art microgrid that integrates energy generation - solar, microturbine, and hydrogen fuel cells - with storage - batteries and hydrogen - and real time monitoring and control.

#### » MicroGrid History

The Stone Edge Farm Estate Vineyard & Winery MicroGrid - launched as a five-year project in July, 2013 -- is the culmination of conservation practices on the property that began nearly two decades earlier. Mac McQuown spent ten ...



#### » News

Stone Edge Farm, the home of Mac and Leslie McQuown, is a beautiful 15-acre organic farm and vineyard located in Sonoma, California. Our microgrid is unique in terms of its three modes of operation with reference to the grid. Craig Wooster discusses Stone Edge Farm MicroGrid Project at Intersolar, Solar Builder Mag July 2015 Meet the 80

**Stone Edge Farm MicroGrid -  
An independent paradise that  
can ...**

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## Experiences from the Stone Edge Farm Microgrid

Stone Edge Farm (SEF) Microgrid Project Introduction Capabilities

- o Grid-tie mode:
  - o Peak shaving and load shifting
  - o Frequency and voltage response as a single entity
  - o Decentralized optimization
- o Island mode:
  - o Decentralized power sharing
  - o Master swapping
  - o Seamless islanding / reconnection capabilities

## Stone Edge Farm MicroGrid - An independent paradise ...

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## Developing a Self-Sustaining Microgrid: Q& A with Stone Edge Farm...

In 2013, Mac and experienced electrical engineering contractor Craig Wooster embarked on an open-source microgrid project to lower the farm's carbon footprint. Since then, the Stone Edge Farm Microgrid has reached a 785-kW

capacity that includes solar PV, a microturbine, and a hydrogen fuel cell hive. The system supplies 100% of the farm's



## MicroGrid Definition

What Is The MicroGrid? The Stone Edge Farm MicroGrid is a mile-long continuous power line that integrates distributed energy generation and storage resources with electrical loads in a network operating as a single entity with real-time monitoring and control. The MicroGrid can operate connected or disconnected from the utility grid.



## Heila and SimpliPhi Partner

Business Wire. September 19, 2019. SimpliPhi Power, a California-based manufacturer of non-toxic, safe, residential, commercial and mobile energy storage systems and Heila Technologies have announced a partnership to deliver a dynamic platform that aggregates multiple customer-cited SimpliPhi battery systems into a 'virtual' power plant.

## Stone Edge Farm's Microgrid:

Stone Edge Farm's microgrid system proved its worth during the 2017 wildfire power outages by providing reliable and resilient clean energy to sustain critical operations. By leveraging solar energy, battery storage, and an innovative decentralized control



## ESS' All-Iron Flow Battery commissioned at Stone Edge farm microgrid

The Stone Edge Farm microgrid integrates new energy storage technologies into an island-capable microgrid that can drive the 16-acre facility's carbon footprint below net-zero, even exporting net zero energy benefits to the adjacent community.

## Microgrid Knowledge: SEF Microgrid

Microgrid Knowledge. October 27, 2017. By Lisa Cohn. The story of the Stone Edge Farm Microgrid and the 2017 Sonoma, California Wildfires that tested and confirmed the vision of the creators. This article gives the full story and highlights Heila's significant role in keeping the islanded microgrid running. [Read Story](#)



## Stone Edge Farm

Stone Edge Farm (SEF) is owned by a wealthy retired financial expert (<https://sefmicrogrid/>). This small (7 ha) winery in Sonoma CA showcases multiple mature and near-mature technologies. Its main loop is a 480 Vac 3-phase system with 7 points of common coupling to

Pacific Gas and Electric distribution.



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