

Extreme cold and high heat reduce battery performance as well as the charge acceptance of nearly all other batteries except for the heated salt battery.



QUANTUM "plug and play"

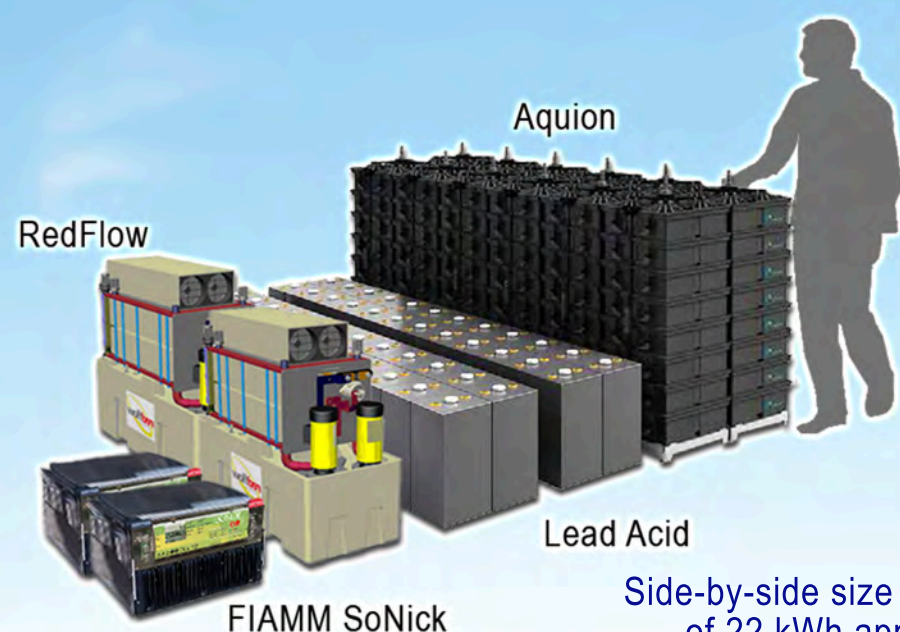
# Grid Edge

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The Grid Edge Quantum is a smart energy storage solution that uses a rechargeable Sodium Nickel battery technology designed to store energy at a residential or small commercial level for load shifting, backup power and self-consumption of solar power generation. The Quantum GEFM unit combines seamlessly with nearly every situation and can even integrate with the local grid to harness excess power. This gives customers the flexibility to draw energy from their own reserve.



The only battery that is 100% recyclable

At Grid Edge we believe in making the environmental changes necessary today, because tomorrow may be too late.

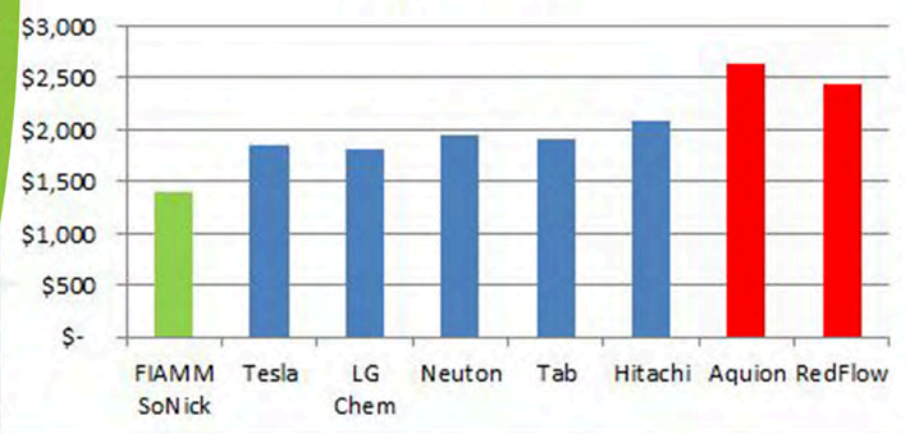


At Grid Edge we are truly passionate about what we do.

We are a company of engineers and business people driven to deliver both off grid and on grid energy supply to all levels of consumer demand, all with an aim of being the best and most trusted renewable energy system company in the business.



**Total Battery Cost per year over life expectancy**



## FIAMM SoNick Inside,

Sodium Nickel Chloride Batteries:

- High capacity (though smaller and lighter than Traditional batteries)
- Reliable at high temperatures (no cooling needed)
- Long life (reliability guaranteed for many years)
- No maintenance
- No dangerous materials



At Grid Edge we are committed to addressing the environmental impacts of today.

Our mission is to improve the environmental quality of our community by partnering with businesses and community leaders to work together to create a clean and safe place to live and work for future generations.



At Grid Edge we spent a lot of effort in finding technologies that have been tested and proven and won't cause any environmental problems for today or for tomorrow. Grid Edge has now secured the Australian wide distributor rights to a proven storage technology that meets all its criteria.

- A battery that is not only 100% recyclable, but also has a recycle program in place.
- A battery that is safe enough that you could store it under the dining room table of your home.
- A battery that can handle a large operating range and can operate even under extreme conditions.
- And also, as importantly, a battery that doesn't use any of our precious metal resources.

*Most batteries achieve optimum service life if used at 20°C (68°F) or slightly below. If, for example, a battery operates at 30°C (86°F) instead of a more moderate lower room temperature, the cycle life is reduced by 20 percent. At 40°C (104°F), the loss jumps to a whopping 40 percent, and if charged and discharged at 45°C (113°F), the cycle life is only half of what can be expected if used at 20°C (68°F)*

*At -20°C (-4°F) most batteries stop functioning. Although NiCd can go down to -40°C (-40°F), the permissible discharge is only 0.2C (5-hour rate), Specialty Li-ion can operate at a temperature, but only at a reduced discharge rate; charging at this temperature is out of question. With lead acid there is the danger of the electrolyte freezing, which can crack the enclosure. Lead acid freezes more easily with a low charge when the specific gravity of the electrolyte is more like water than when fully charged.*



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