



# Posi energy Peru

What is posi energy?

It starts with POSi. The experience aquired by our team over more than thirty years at the forefront of silicon engineering has led to the development of POSi's novel solution: POSi Energy has invented a new battery architecture which has the potential to double the energy density of Lithium-ion batteries (LIBs).

What is posi's lithium-ion battery architecture?

POSi's lithium-ion battery architecture uses a record high-cathode loading, showing the potential to double the energy density without forming any lithium dendrites, while maintaining highly stable capacity after more than 300 cycles, and halving the required anode weight and volume.

What is the potential of posi's lithium-silicon anode?

POSi's lithium-silicon anode has the potential of safely delivering gravimetric and volumetric energy densities of greater than 600 Wh/kg and 1200 Wh/L, respectively, at the cell level without forming any lithium dendrites.

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A new lithium-silicon anode developed by POSi Energy -- Silicon Power is expected to markedly enhance lithium-ion battery performance. The battery architecture features a high cathode loading that offers scope to double ...

We have developed and demonstrated a LIB design with a unique lithium-silicon anode. The result is an ultra-high-performance battery that cuts weight by more than half, increases energy density by more than a factor of 2, experiences virtually no capacity fade even with high cathode loading, and forms no lithium dendrites.

Posi Energy has demonstrated a new lithium-silicon battery architecture that potentially could double the energy density of batteries without forming any lithium dendrites. The lithium-ion battery architecture would also be able to maintain capacity after more than 300 cycles and halving the required anode weight and volume.

POSi is lead by our founder and CEO, Dr. Devendra Sadana. Our founder brings together his more than thirty years of expertise at the cutting-edge of silicon and semiconductor engineering to usher in a new revolution in the green energy sector.

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