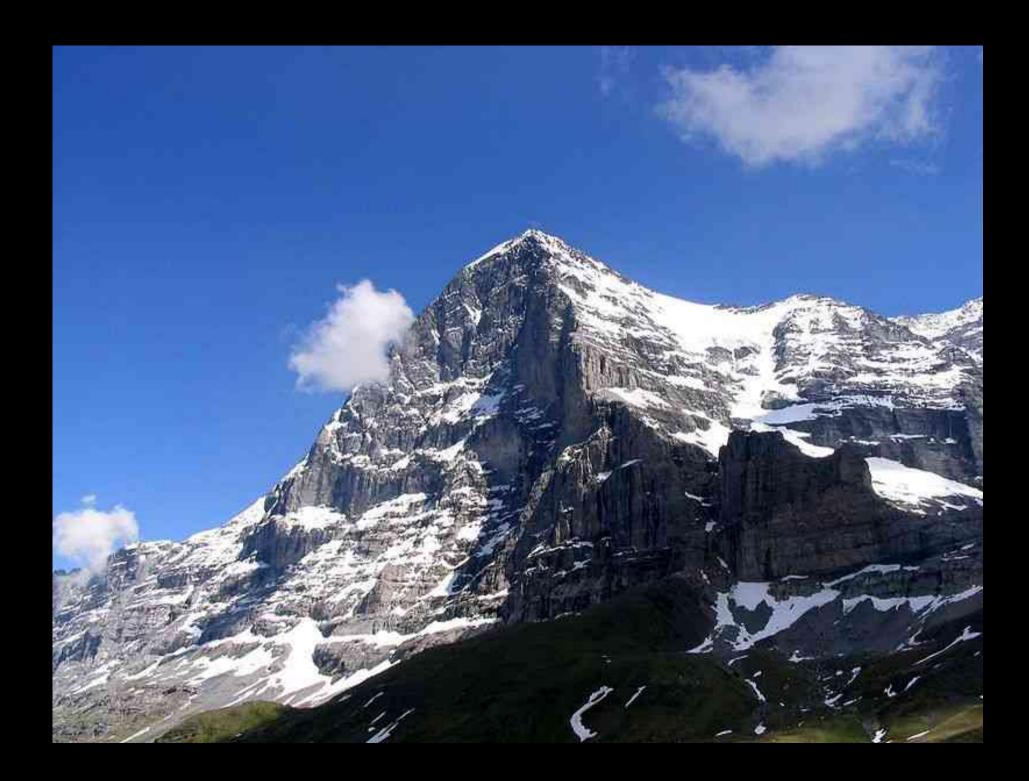
VELKESS Kinetic Energy Storage Systems



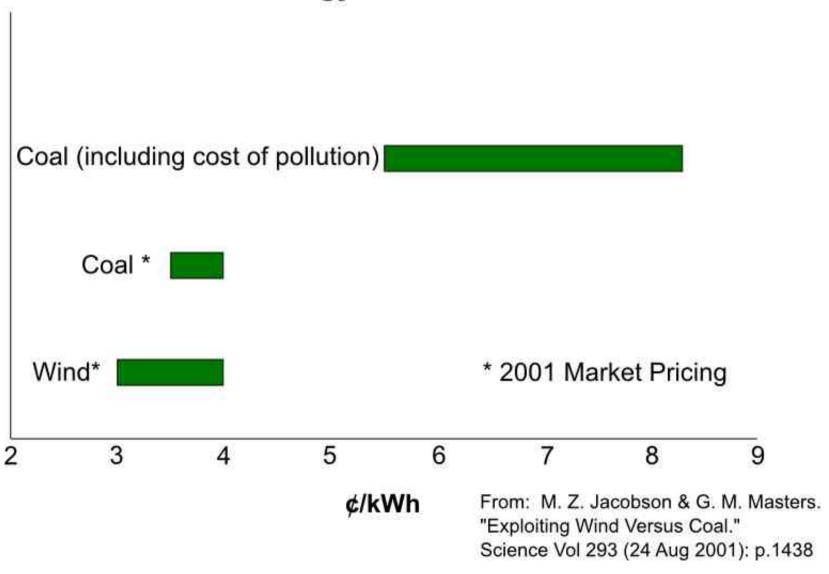




Revs - Cost = Profit

Wind IS Cheaper than Coal!

Costs of Energy from New Generation



Revs - Cost = Profit



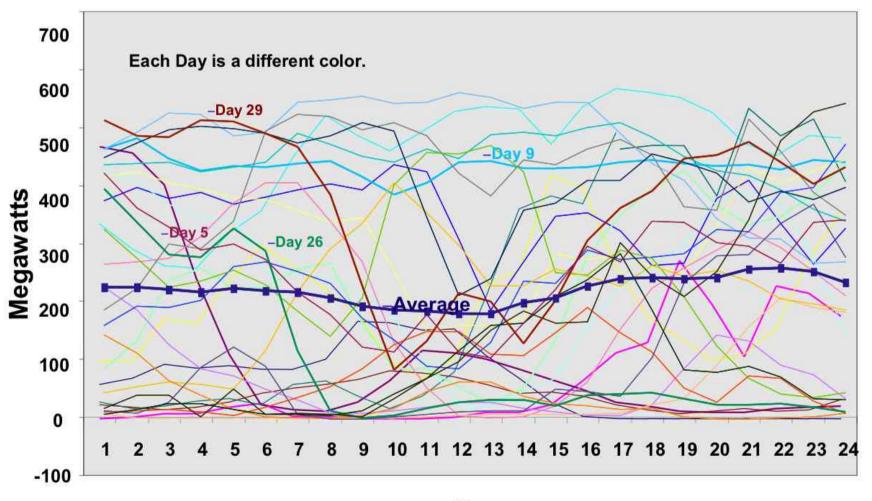


Time = Money

You Get Wind Energy When the Wind Blows!

- Cannot Increase or Decrease Production to Meet Demand.
- Very Difficult to Predict Day Ahead or Even Hour Ahead.

Tehachapi Wind Farm Output - April 2005

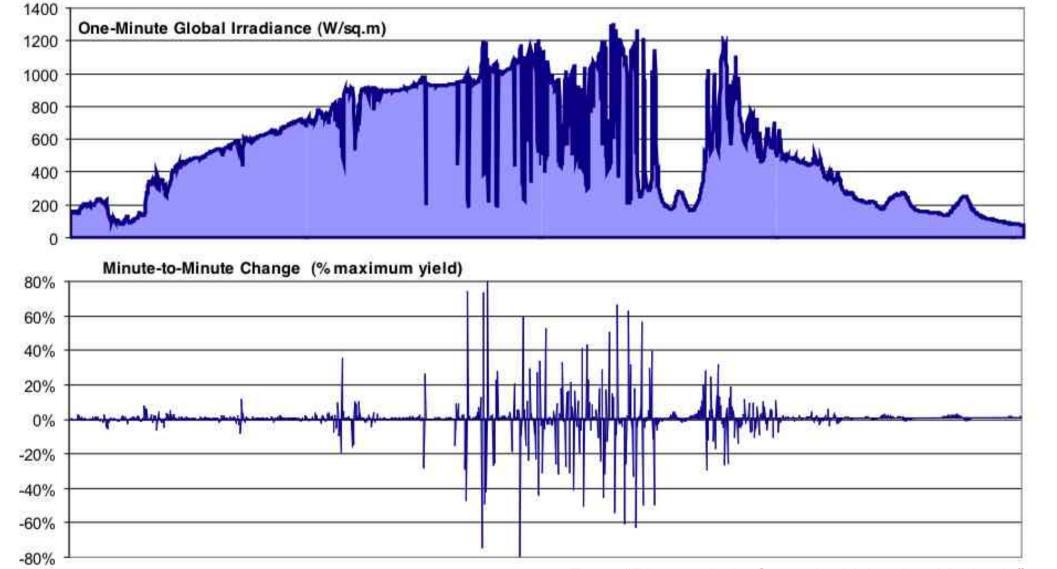


Hour

From "Briefing in the CAISO Renewables Integration Study", October 17 2007

... And You Get Solar Energy When the Sun Shines!

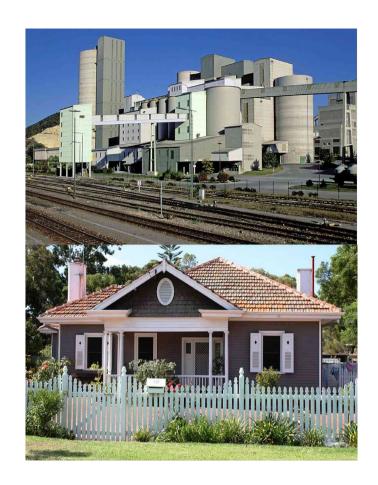
Actual Minute to Minute Output of a Single Solar Array

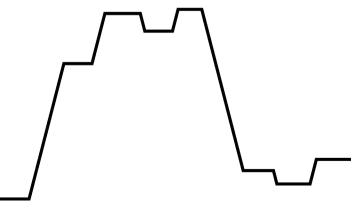


From "Photovoltaic Capacity Valuation Methods", Solar Electric Power Association May 2008



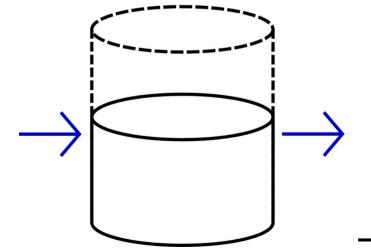




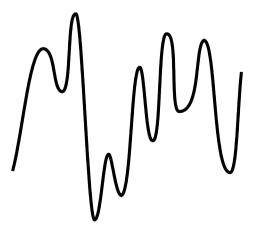










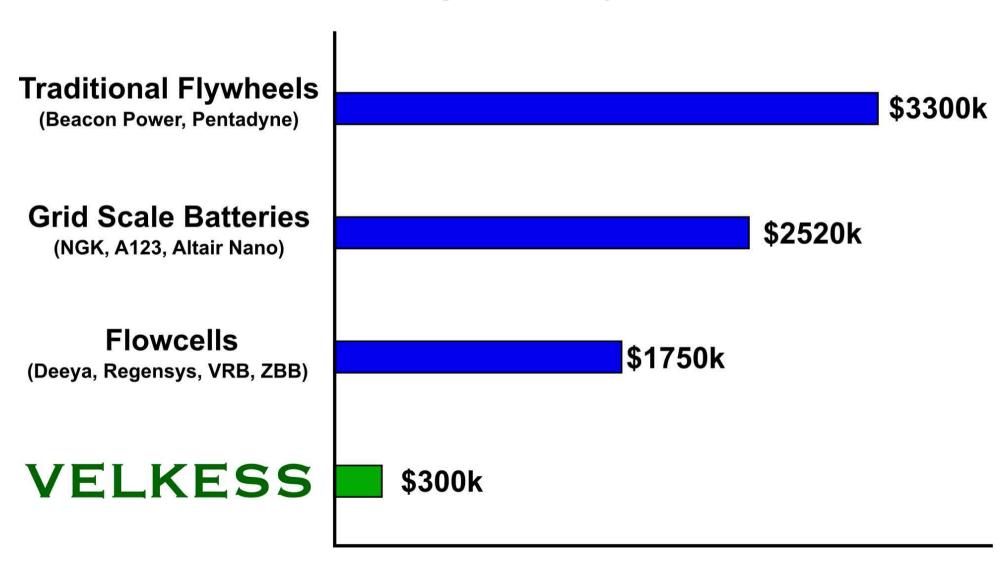


Revs - Cost = Profit

Energy Storage Solution Comparisons

(uses most aggressive available *projections* for competitive technologies)

1MW Regulation System



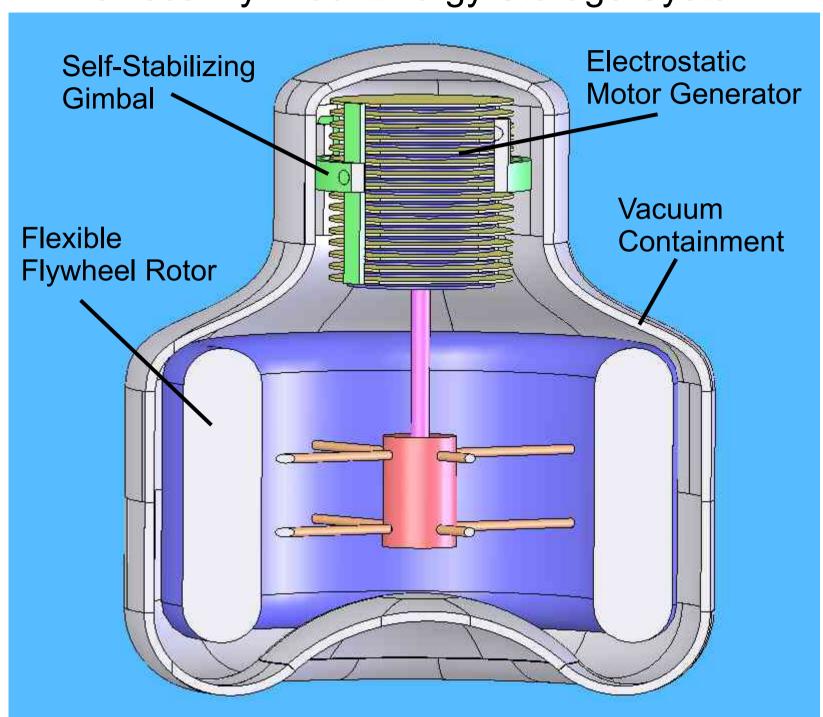
Velkess has demonstrated technology on a bench scale that is capable of storing **industrial** quantities of electrical energy and providing stored power at approximately 1/10th the cost and 2x the efficiency of any currently available technology in the market today.

Velkess's current prototype has not yet been optimized for efficiency. Never-the-less it is functioning with 85% DC to DC efficiency.

Velkess is seeking to fund development of a full scale manufacturable prototype system, initiate commercial production, and install initial systems.



Velkess Flywheel Energy Storage System



Velkess's Core Technologies Enable Radically Lower Cost While Preserving Excellent Efficiency and Performance

Self Stabilizing Flexible Flywheel Rotor System

Dramatic Cost Reduction of Storage Medium

Inherent Stability = Safety

Easy to Manufacture

Floating Rotor Electrostatic Motor Generator

Extremely High Efficiency

Very Low Cost

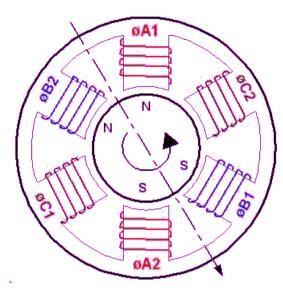
Easy to Manufacture

PCT Patent Filed...

Patent Office Opinion = 100% Patentable

Electric / Kinetic Energy Conversion

Electro*magnetic* Machine



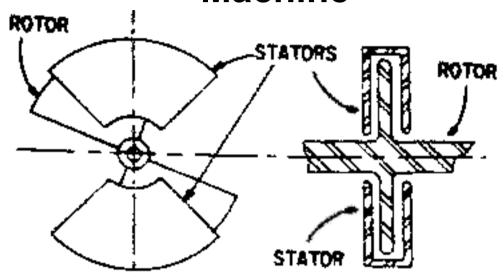
Traditional Technology

High Power Density

Current Driven

High Efficiency Possible (But at Very High Cost!)

Electros*tatic* Machine



Older, But Little Used Technology

Lower Power Density

Voltage Driven

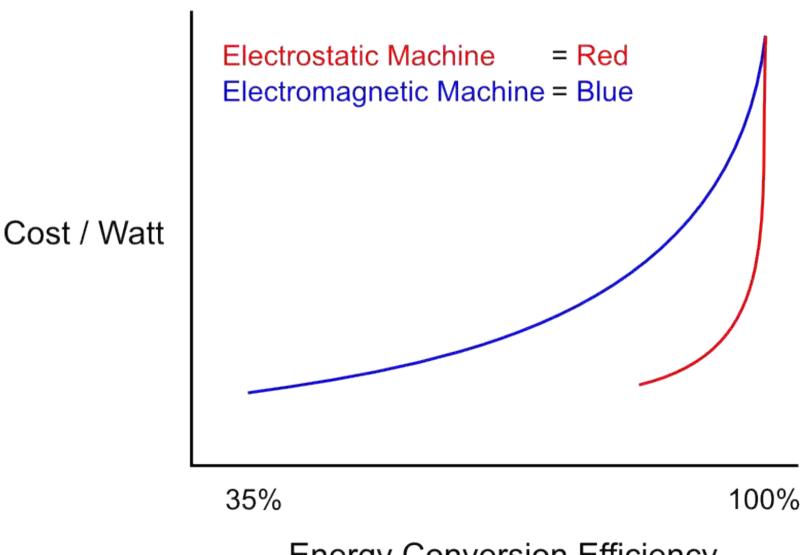
Inherently High Efficiency

Primary Materials: Copper & Iron

Primary Materials: Ceramic or Plastic

Floating Rotor Electrostatic Motor Generator

Why not use a standard electromagnetic machine?



Energy Conversion Efficiency

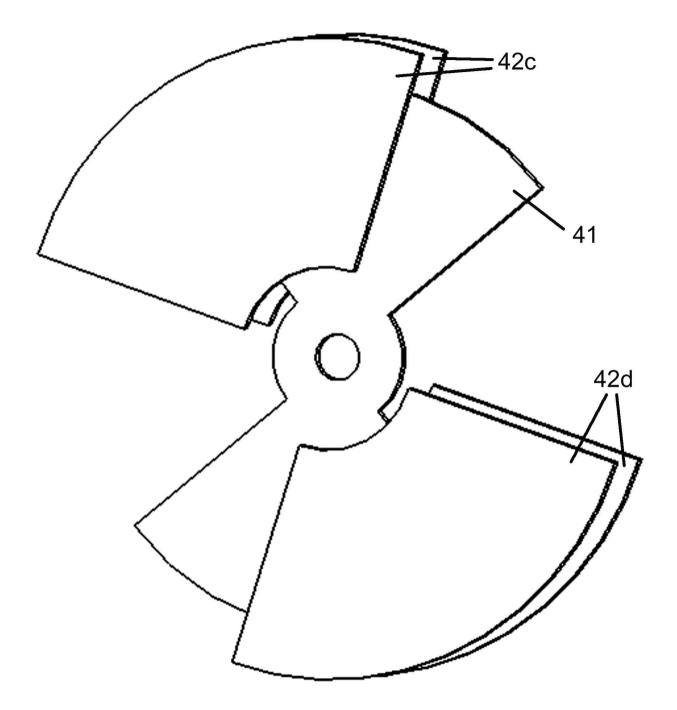
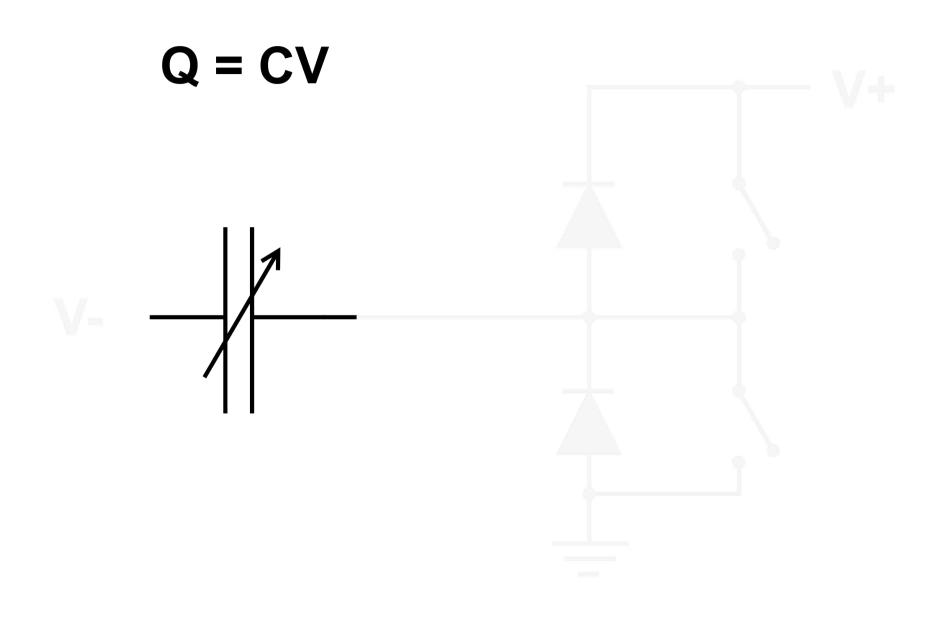
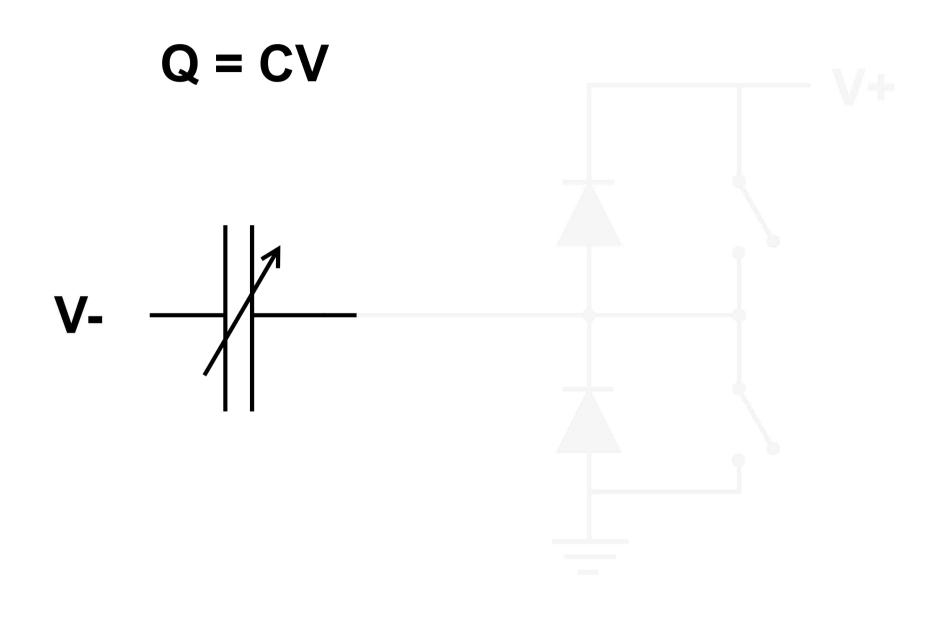
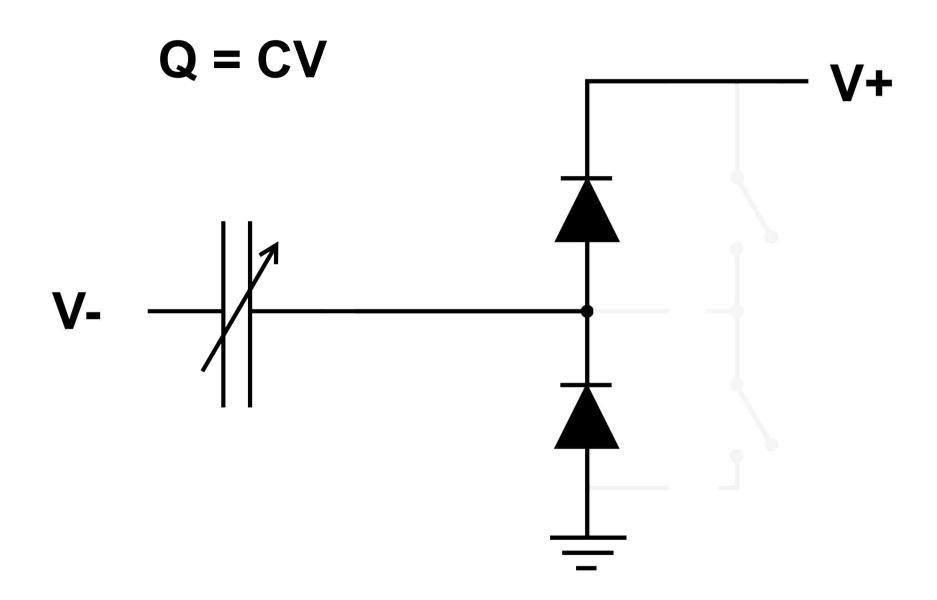
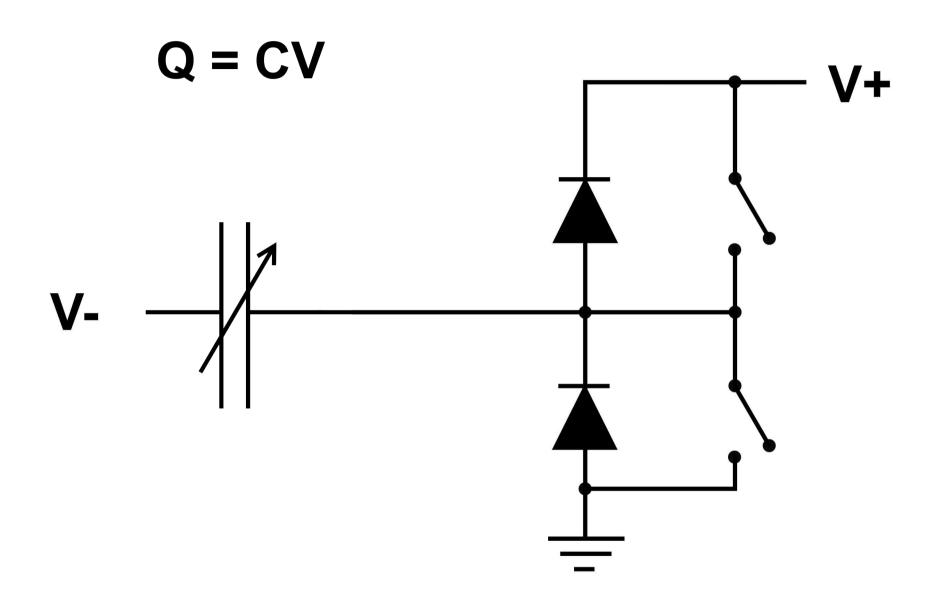


Fig. 4









Thank you

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415 407 7356

