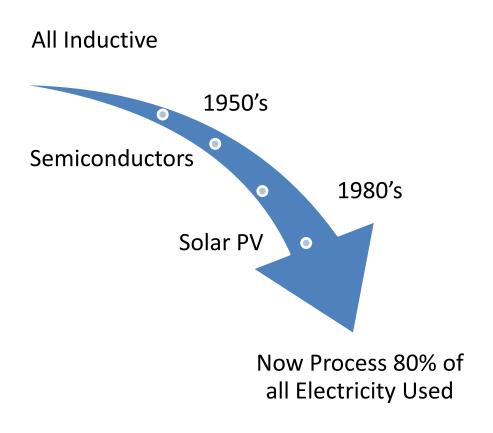


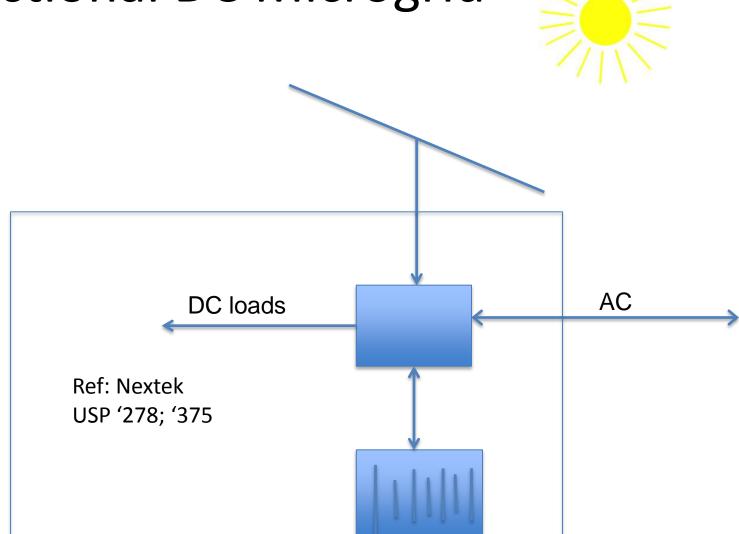


Shift to Semi-conductors



DC Microgrid Idea ACDC loads Ref: **Nextek USP '**561

Bi-Directional DC Microgrid



"The total amount of energy flowing into external power supplies in the U.S. today is about 100 TWh/year. DC power is also used in electronic products with internal power supplies. These collectively consume in excess of 250 TWh/year. Taking the

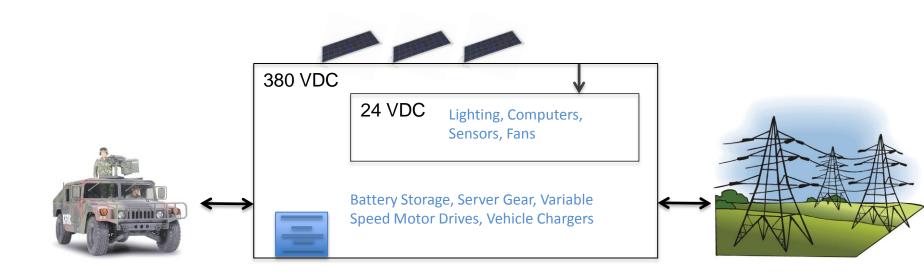
Energy Star Tier 1 levels as the average for the near-future stock, the average efficiency of this conversion is about 68%..."*



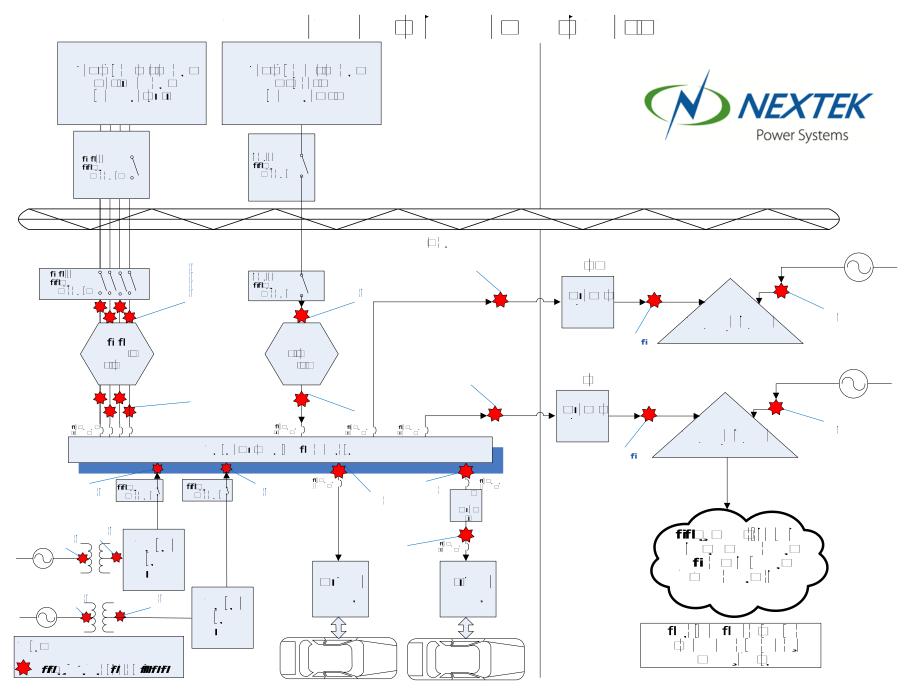
Sector	Potential MWh Saved	Potential Efficiency Gain in Sector(s)	Potential Reduction in National Load
Residential	185,264,820	25.32%	2.98%
Commercial	123,290,000	19.03%	3.03%
Manufacturing	77,128,960	20%	1.90%
Data Centers	9,657,827	18%	0.24%
Total	396,341,607	21.15%	8.15%

^{*}Low-voltage DC: Prospects and Opportunities for Energy Efficiency Bruce Nordman, Rich Brown, Chris Marnay Lawrence Berkeley National Laboratory, November 16, 2007











Michigan Assembly Plant



Birth Announcement



Welcome!

- 24 VDC 380 VDC

XOXO ~ 75 Stakeholders



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