



FY05 DOE Energy Storage Program

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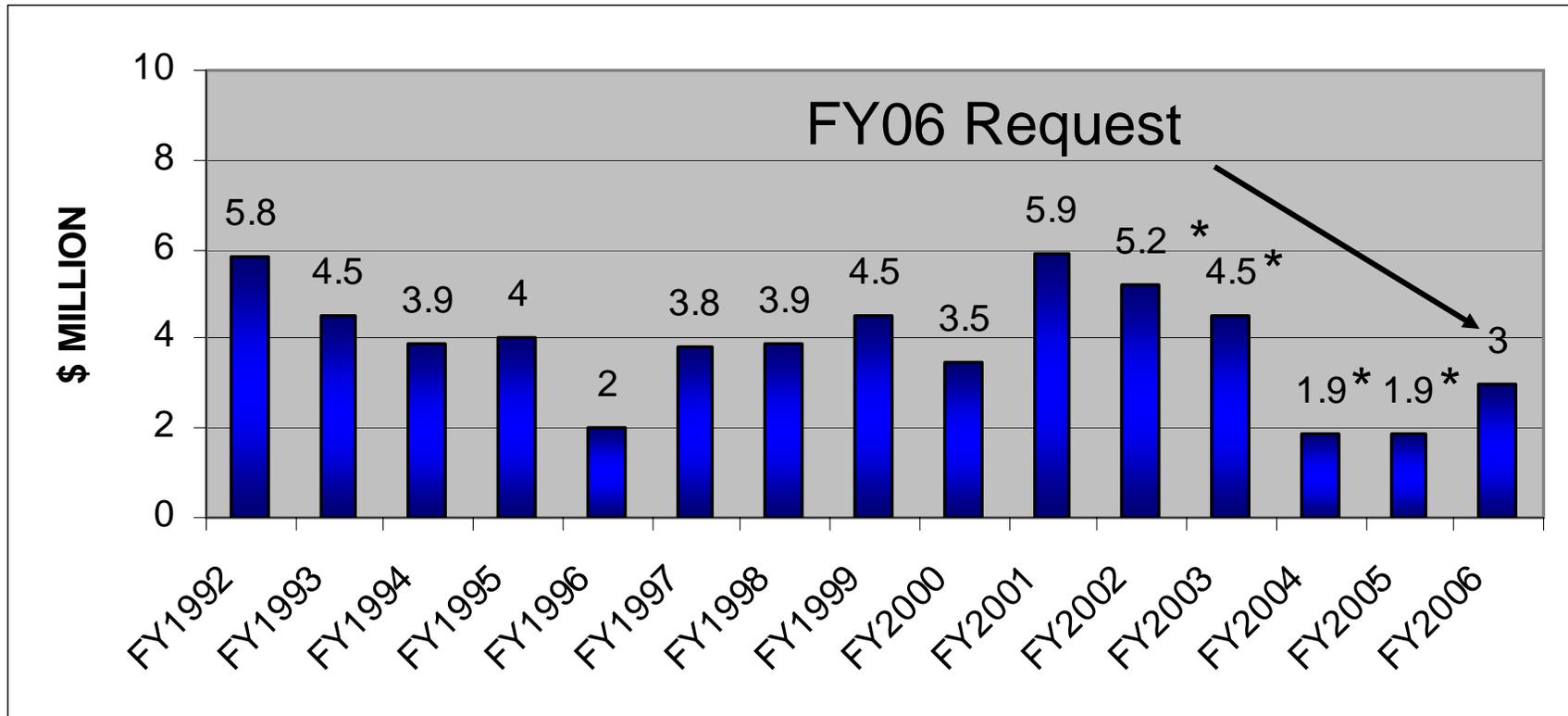


ESS Program Makeup

- **ESS Base Program**
- **Four Congressionally Directed Programs**
 - **BiPolar Ni-Mh Wafer Cell Battery Storage System**
 - **University of Missouri-Rolla Electric Transmission Program**
 - **Iowa Stored Energy Plant**
 - **Research on Lead Carbon Asymmetric Supercapacitors**



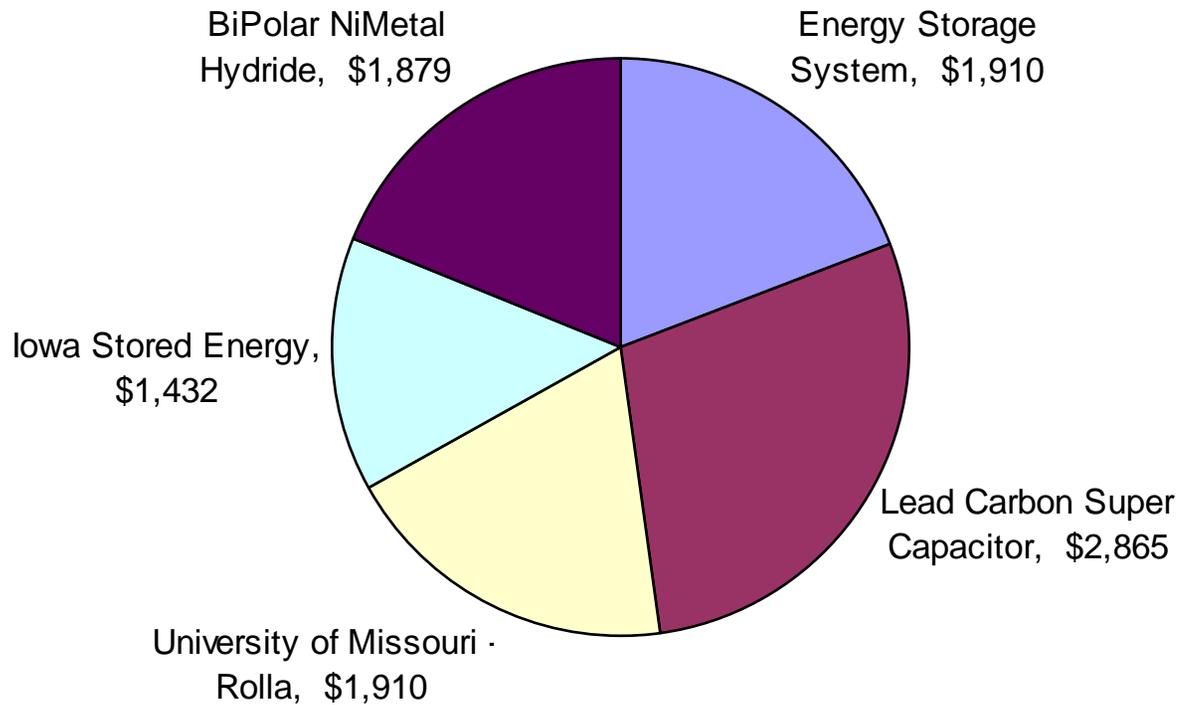
Energy Storage Systems Program Funding



* Earmarks removed



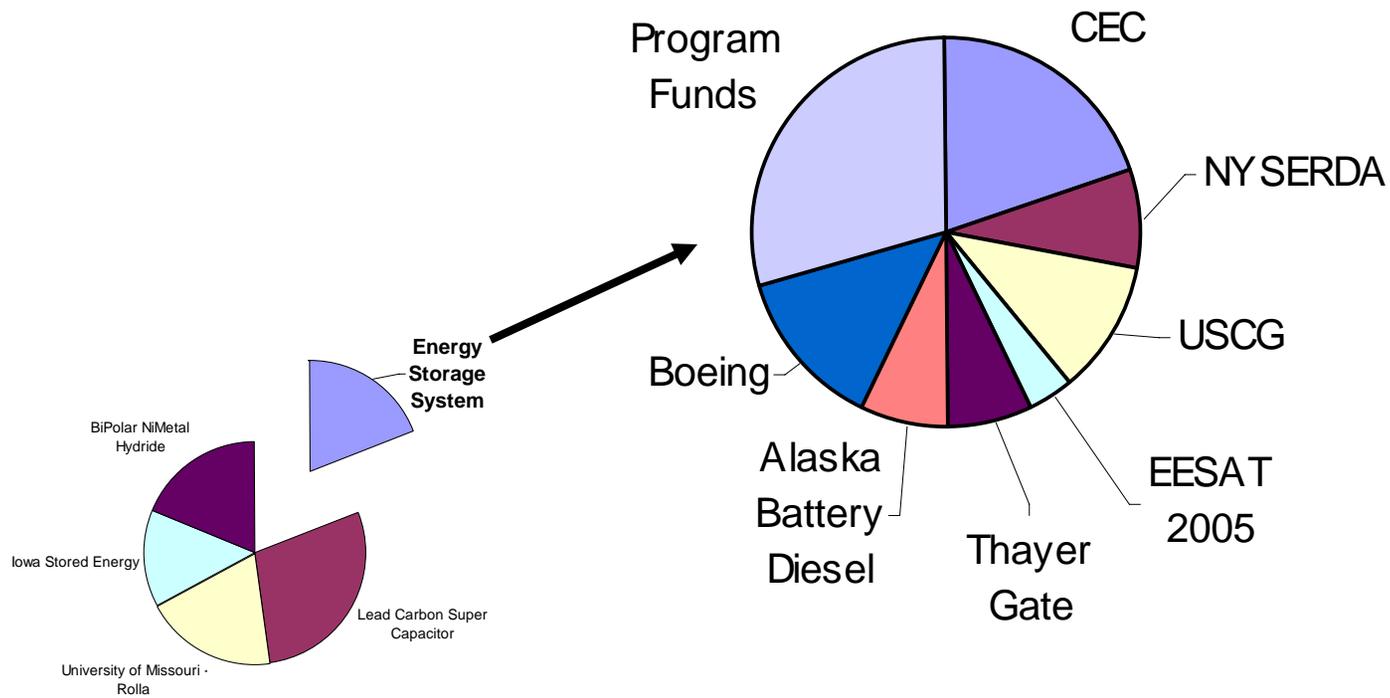
FY05 ENERGY STORAGE & CONGRESSIONALLY DIRECTED PROGRAM FUNDS



Total Funds Managed - \$9996 K

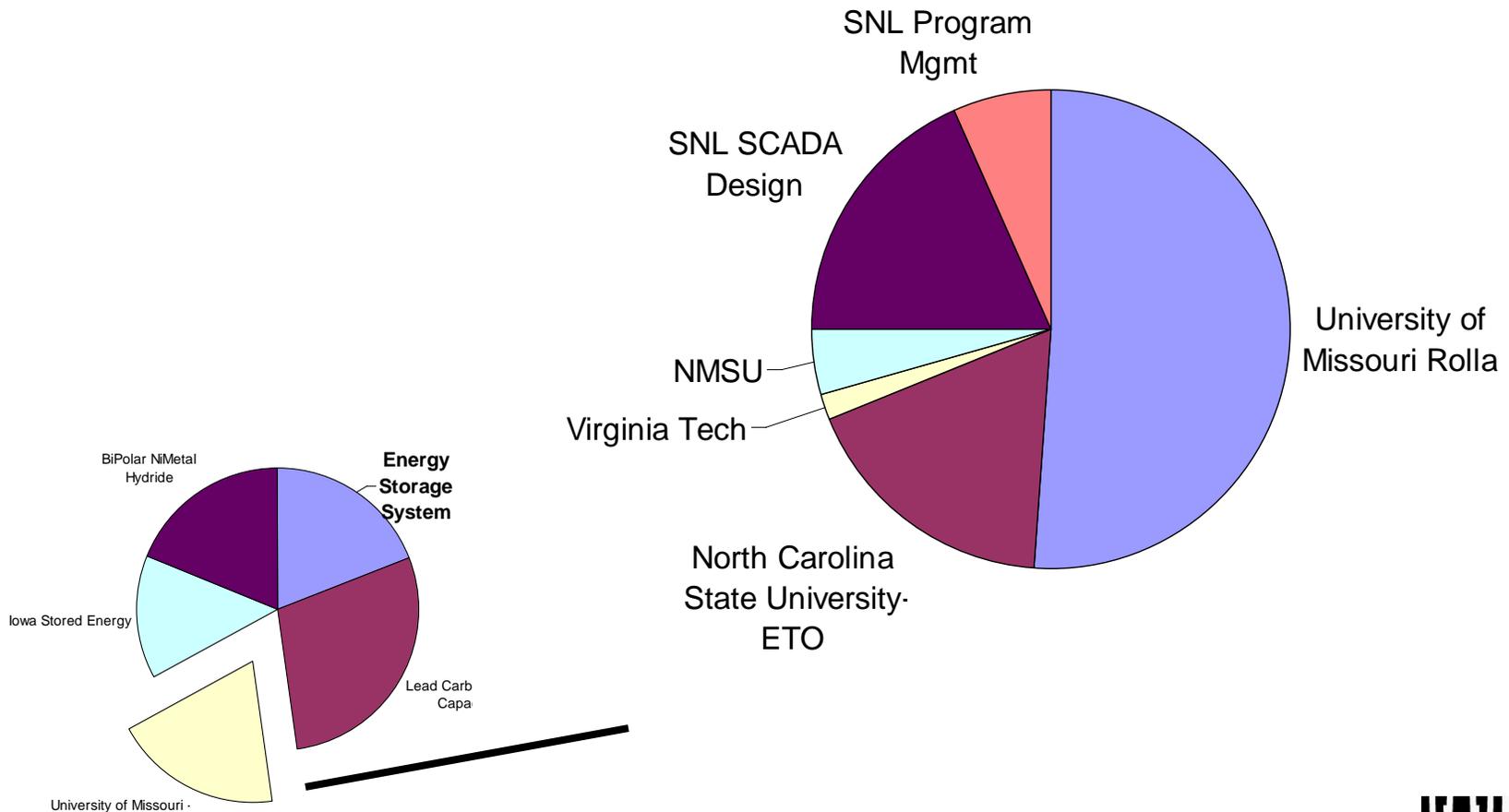


ENERGY STORAGE PROGRAM FUNDS FY05



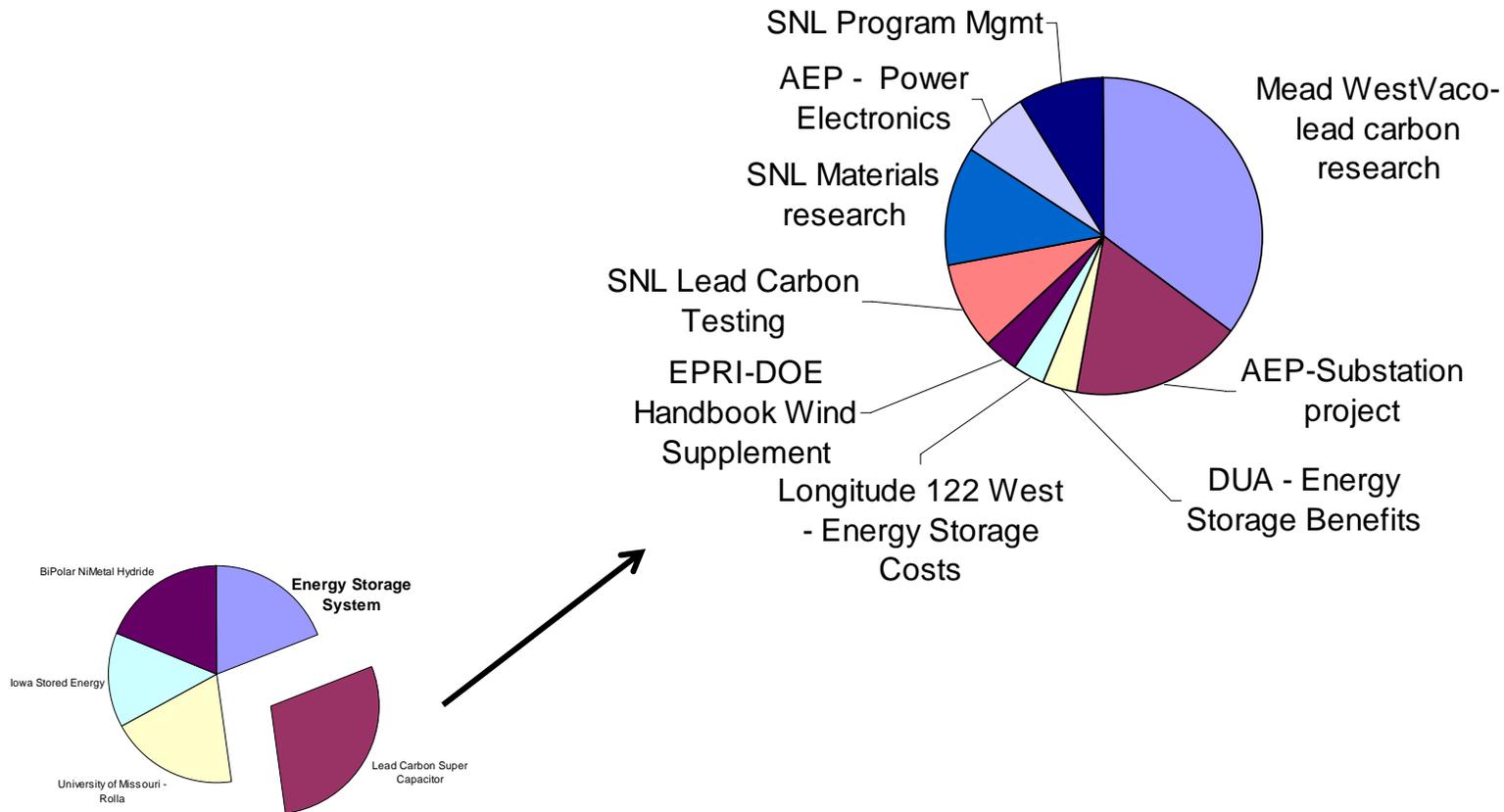


University of Missouri-Rolla





Lead-Carbon SuperCapacitor





Leveraging DOE Energy Storage Program Funds

- **CEC/DOE Collaboration on Energy Storage**
 - DOE \$1.2M
 - CEC \$3.8 M
 - Cost Share \$4.6 M
- **NYSERDA/DOE Joint Energy Storage Initiative**
 - DOE \$0.9 M
 - NYSERDA \$2.6 M
 - Cost Share \$3.6 M
- **AEP/DOE DESS Project**
 - DOE \$0.5 M
 - AEP \$1.6 M



Summary

- **DOE Energy Storage Program is managing remarkably well considering**
- **DOE has developed several excellent partners**
- **Progress is slower than we had hoped, but better than we expected**
- **We expect similar years in the immediate future**