

# JASMIN - Power Reduction

- Only at the start of our journey
- Biggest consumers - compute & storage nodes
- Looking first at compute, talking to vendors about storage (and fixing with procurement, eventually)
- Other things are a rounding error (almost)

# JASMIN CPU Power Reduction

- New cluster, all 2024 hardware
- 276 nodes, all 2x96c, mostly 1.5TB memory (11 with 6TB). Total 55k cores.
- Replacing **all** previous JASMIN CPU (eventually)
- Opportunities for power reduction
  - Shutdown of idle nodes (should have a big impact initially, less later)
  - Improving accounting (tracking per project), so we can attribute usage to consortium/project
  - Lenovo Energy Manager - for rack power capping
  - Working with biggest users individually to improve their jobs
  - Homogenous cluster provides additional opportunities for power monitoring/management
  - Improved monitoring of stats with node exporter/SNMP collection