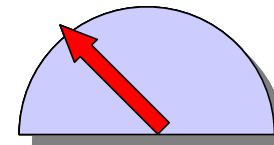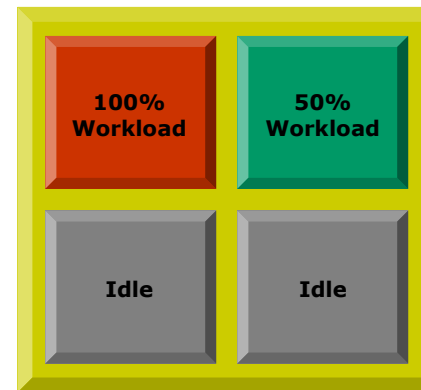# Advanced Power Management

- Separate CPU core and Northbridge power planes
  - Allow processors to reduce voltage while NB continues to run
    - *Power savings*
  - Also can apply additional voltage to NB to raise the NB frequency
    - *Performance boost in power-constrained platforms*

- Enhanced PowerNow!
  - Ability to *dynamically* and *individually* adjust core frequencies for improved power efficiency

| 100% Workload | 50% Workload |
| Idle | Idle |

45% Power State

AMD