Customer Interruptions $SAIFI$

Duration of Interruptions $SAIDI$

Response to expected (common) occurrences

$CAIFI$ Averaged over 1 year
Resilience

- Katrina
- Sandy

Reliability versus Resilience

- Reliability
  - Expected
  - Types of outages
  - Operate system normally
    - Reduce how often + how long interrupted

- Resilience
  - Able to withstand major, unexpected events
  - Bring system to minimum level of normalcy
    - Supply critical functions
- cyberattacks - resilience