Green power policies recommendation across various time windows to reduce carbon footprint across different workloads

- Our gradient based method takes IO latency and IOPs as labels
- Number of data center resources are the input data
- Our method learns the unnecessary resources consuming power
- Switching OFF these resources will not affect Quality of Service
- Reduced power consumption
- Carbon footprint sustainability metrics are improved

Incoming Input and outputs (IOs) from various hosts to disk-based enterprise data storage centers

Classification of IOs into red hot and cold data with time series forecasting

- Workloads varies across different time windows
- Power consumption is directly correlated with customer workload
- Goal is reducing power consumption by switching off unnecessary data center resources

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