ASGC - Accelerating Discovery & Innovation Your Computational Research Partner
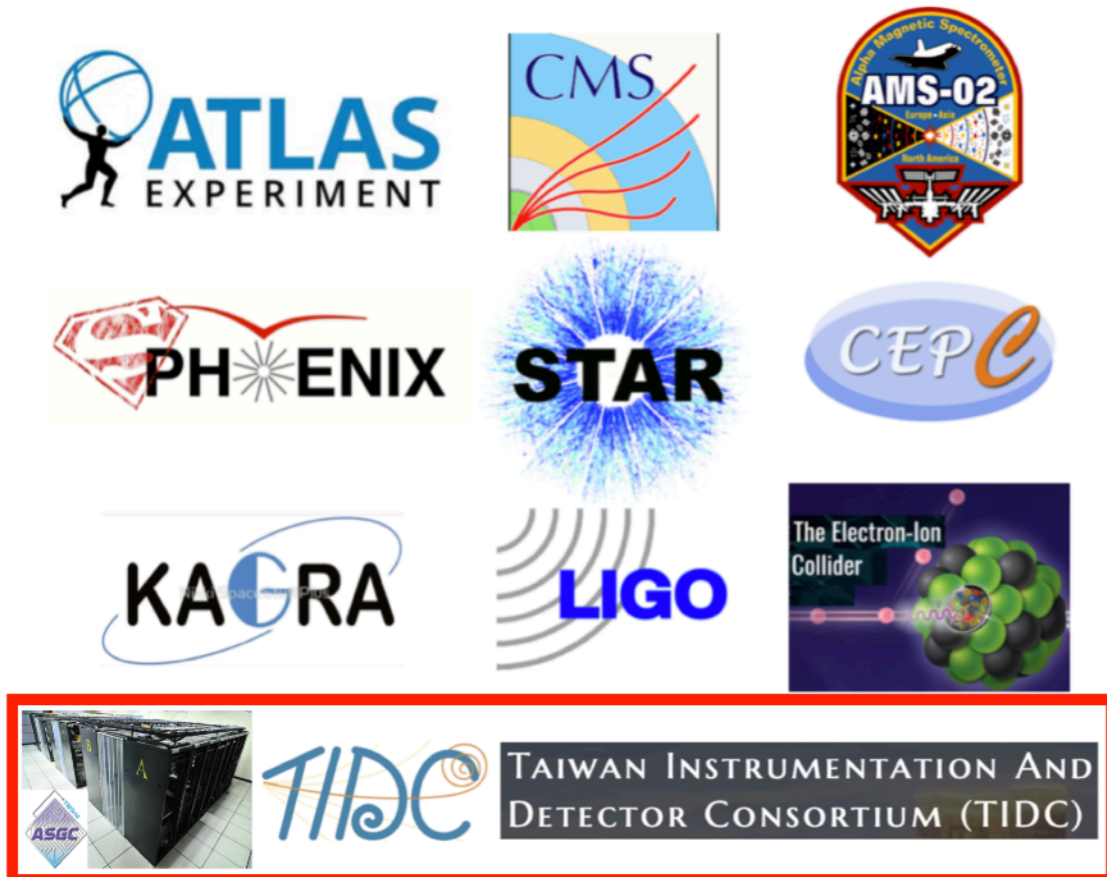
- **WLCG Tier Centre - building capacity by participating the development & deployment of the world largest and advanced distributed cloud research infrastructure**
  - **WLCG is moving towards O(1000)PB scale in RUN4**
- **Core Facility - computing arms of HEP experiment, research facility and research communities, based on WLCG core technologies**
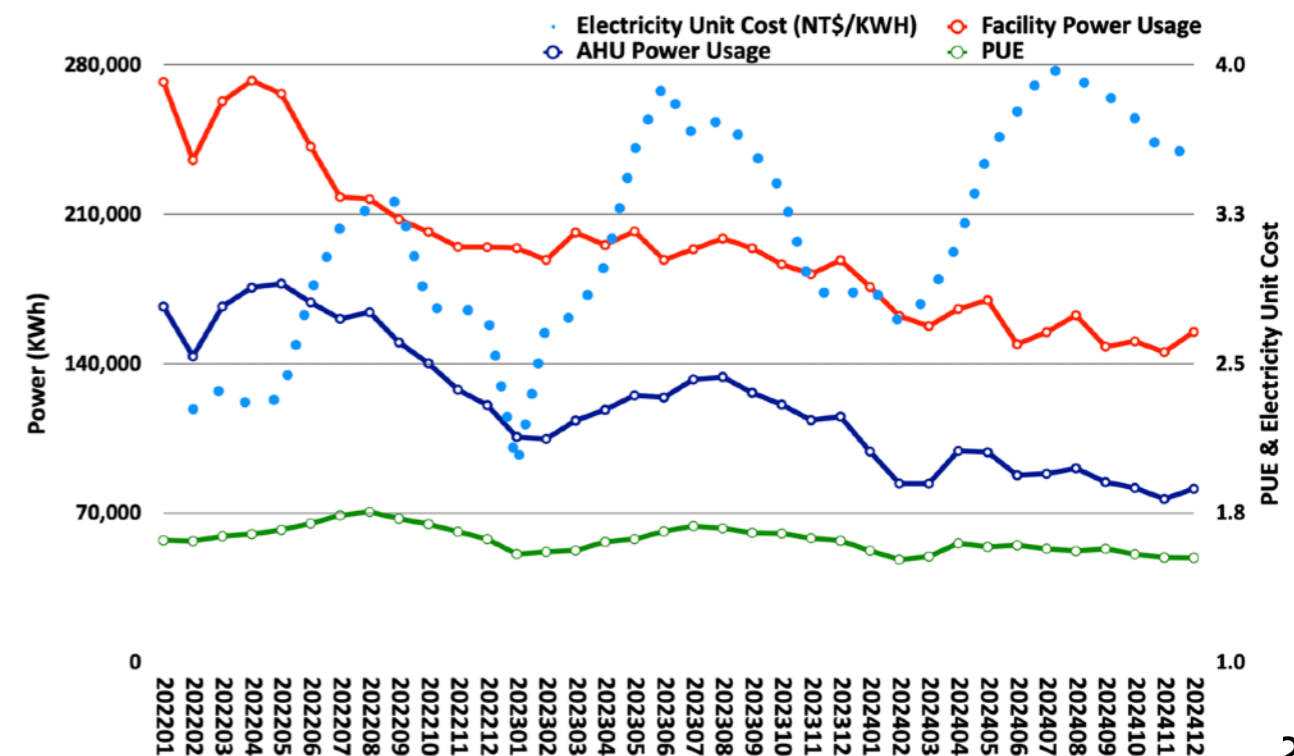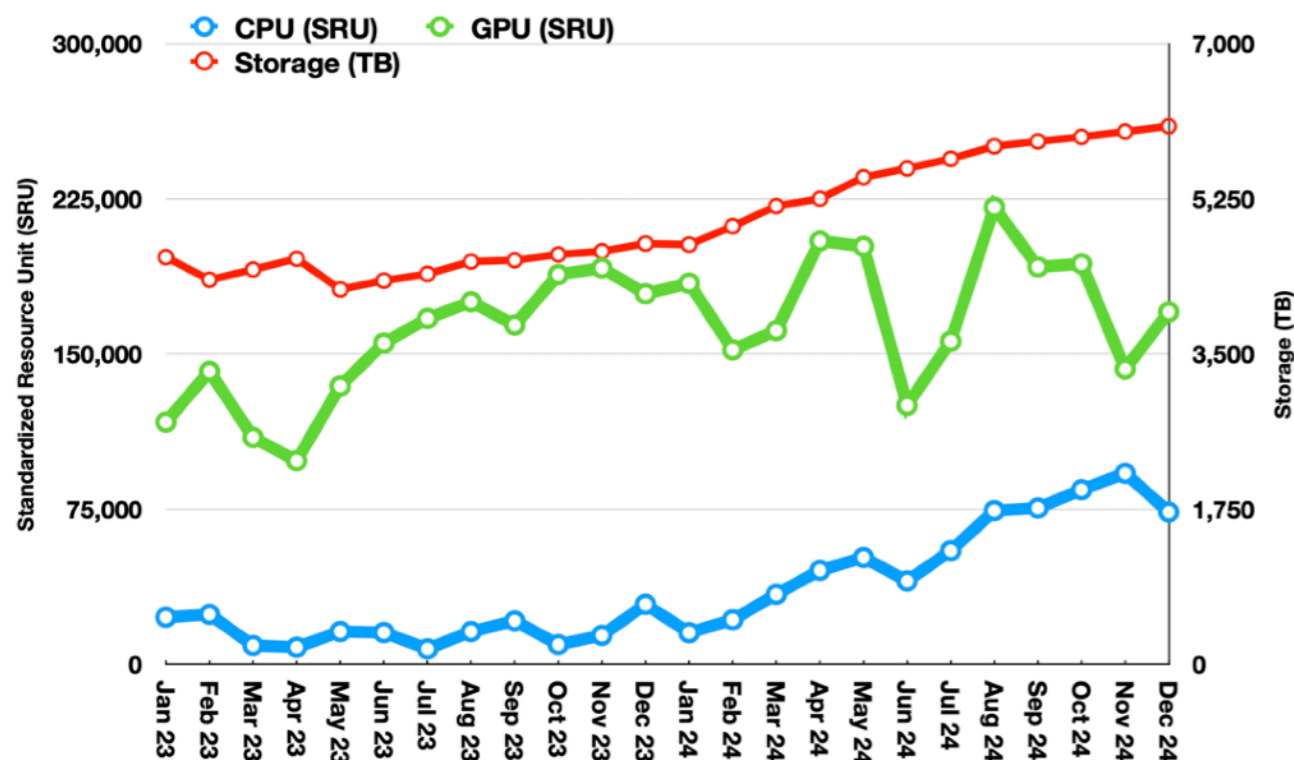 - **Also part of the research infrastructure**

Reliability & Efficiency Are Key Objectives

- **Sustained growth of users, utilization, reliability and satisfaction in 2024**
    - 174 PI Groups, 595 users from 25 Institutes in Taiwan
    - Finished 4.94M CPU jobs, and 52.8K GPU Jobs, with 99%+ reliability
    - 26+ supported research publications
    - Demands of advanced GPU keeps growing in 2024 - 20% utilization growth in high usage situation
    - CPU usage has increase of 333% in 2024
- **Onboarding new hardware and retiring legacy ones for power saving and performance improvements: 5,760 CPUCores, 210 GPUBoards, 12PB Disk, 8PB Tape**
    - New procured HW (1,920 + 256 CPUCores, 2.5PB Disk Storage) had been available on 20 Dec 2024
    - Expected to have >7,000 CPUCores and new GPUs, 15PB disk and new tape backup/archive in 2025
- **Persistent capacity building: research application efficiency, ease-of-use, advanced services & core technologies**
    - 4x trainings, GPU/AI computing workshop, thematic computational research workshop, etc.
- **Efficiency (& power saving): Power consumption reduced 20% in two years straight from 2023**
- **Flexible collaboration model and services**

中研院網格中心 聯絡資訊

- **Core Facility Services**
  - **https://nstccore.twgrid.org**
  - **https://scale.grid.sinica.edu.tw/index.php**
- **ASGC Web Site: https://www.twgrid.org**
- **Access to ASGC Resources**
  - **https://dicos.grid.sinica.edu.tw/**
- **Contact point: DiCOS-Support@twgrid.org**

- **Gentle Reminder**
  - **Please include ASGC (Academia Sinica Grid-computing Center) in the acknowledgement when research outcomes that relied on ASGC resources, services or expertise are presented in your research.**