



## BEIJING-LCG2 Future

# Site upgrade

- ▶ Will add some new computing resources.
  - ▶ Replace 16 old WN at JUL. 2012
  - ▶ Now HEP-SPEC06 = 8884
  - ▶ New HEP-SPEC06 = 10644
- ▶ EGEE to EGI migration
  - ▶ Test new system
  - ▶ Grid middleware upgrade.
  - ▶ Monitoring system Migration.
- ▶ NetWork Connection
  - ▶ Migrate from E1200 to E600, separate from local computing environment.



# Middle ware

- ▶ LCG-CE will be retired JUL. 2012
- ▶ Only one cream ce + torque server.



# Infrastructure Upgrade-1

---

## ▶ Power System Upgrade

- ▶ Power consumption reached 80% of current capacity
- ▶ PDU can not support high density blade servers
- ▶ Upgrade planning
  - ▶ Power Capacity: 800kw -> 1800kw
  - ▶ Power supply for one rack : 10kw ->28kw

# Infrastructure Upgrade-2

---

## ▶ Cooling System Upgrade

- ▶ Reached 80% of current ability
- ▶ Can not meet the cooling needs of blade server racks
- ▶ Overheated island caused by high density blade servers
- ▶ Upgrade planning
  - ▶ Water cooling rack: for blade server racks
  - ▶ Cooling capacity per rack will reach 28kw

## **Infrastructure Upgrade-3**

---

- ▶ Will start soon and complete in about 45 days
- ▶ Computing service will be unavailable for 4-5 days