



# Energy Efficient Computing

## Unit 10 - Summary

- **Energy Efficiency:** NVIDIA optimizes energy efficiency in data centers through reduced networking infrastructure combined with power-efficient GPUs.
- **Cooling Architecture:** Cooling architecture of GPUs in data centers is important for improving efficiency.
- **Co-location:** Co-location can improve efficiency and help businesses avoid the challenges of facilities planning.
- **Continuous Improvement:** NVIDIA continuously improves energy efficiency across its portfolio with each new GPU.

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### What goes into planning data center deployments?

Planning data center deployments involves considering space, power, and cooling. These factors affect the overall efficiency and effectiveness of the data center.

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### How does NVIDIA optimize energy efficiency in data centers?

NVIDIA optimizes energy efficiency in data centers through reduced networking infrastructure combined with power-efficient GPUs.

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### What is the cooling architecture of GPUs in data centers?

The cooling architecture of GPUs in data centers is important for improving efficiency. There are several options for cooling GPU chips, including cold air and water-cooled air exchangers.

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### How can efficiency be improved through co-location?

Co-location can improve efficiency and help businesses avoid the challenges of facilities planning. Through the DGX-Ready Data Center Program, businesses can deploy NVIDIA DGX systems and the latest DGX reference architectures from different partners with speed and simplicity at an affordable op-ex model.