## **Data Center Sustainability Fundamentals**



GHG emissions Water use Waste and recycling



## ந்த்; Social

Diversity & inclusion Human rights, health & safety Conflict resources/materials



### Governance

Business ethics Compliance Board diversity

### **Green House Gas (GHG) Emissions**

# Scope 1 Direct

Emissions
Fuel
combustion
on-site and
fleet vehicles,
refrigerant
leaks

### Scope 2

Indirect
Emissions
from
purchased
electricity,
heat or
steam
emissions

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Supply Chain Emissions, including:

Goods and services purchased

Investments

Commuting and business travel

Waste disposal Leased assets







### Scope More

Avoided emissions Emissions avoided due to investment in R&D to

improve

efficiency



### Water use

Water used for cooling

Water recycling (1) reuse within the data center (2) returning water to the ecosystem from which it was sourced



#### Waste

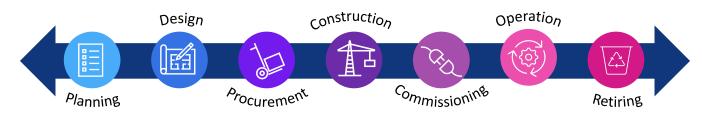
Waste from construction

E-waste generated from nonrecyclable components

Recycling, refurbishmen t and circular economy







Implementing sustainable practices requires time and continual effort. A data center operator's journey can be summarized with the following maturity levels.

Level 5

Level 4

Level 3

Level 2

Level 1

Level 0

Level 5: Optimizing. Integrated and constantly optimized processes

Level 4: Managed. Data-driven monitoring and control

Level 3: Defined. Proactive, documented and standardized processes

Level 2: Repeatable. Planned, monitored, controlled processes

Level 1: Initial. Disorganized and reactive processes, relying on individuals

Level 0: Non-existing processes, monitoring and measurements