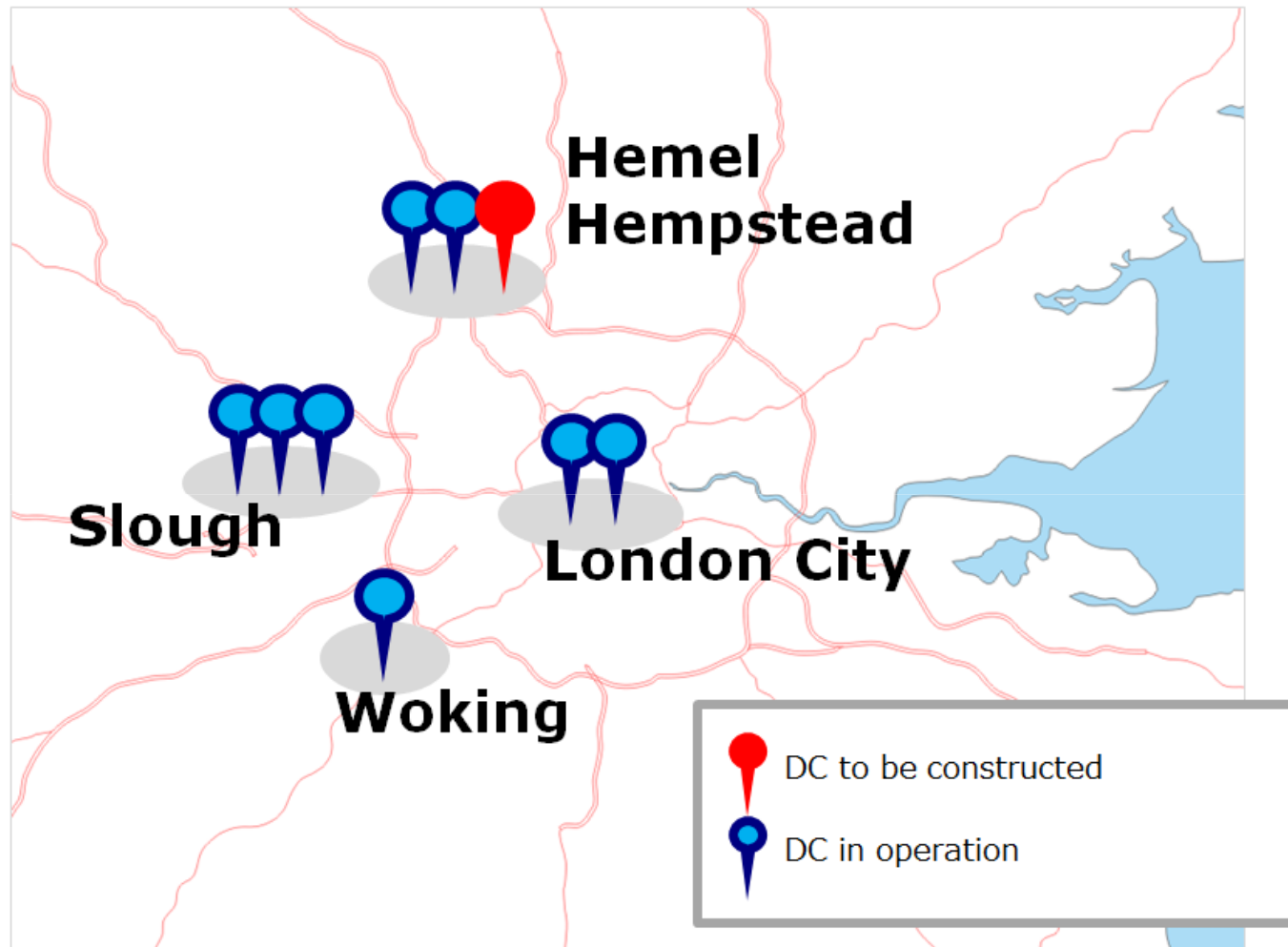


# Data Centers in UK



**Nexcenter**

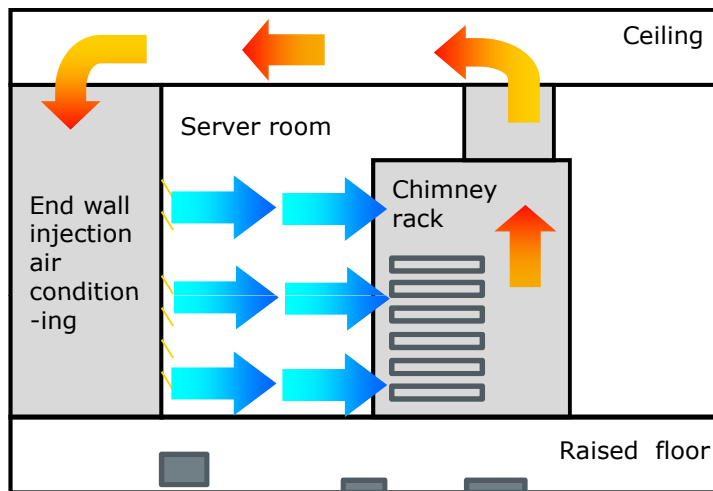


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# Efficient Air Conditioning

By combining end wall injection with a chimney rack, it is not necessary to use the void under the raised floor, where cabling and sensor equipment impede the airflow, resulting in a shorter, simpler cooling loop and highly efficient and consistent air conditioning.

**【New System】**



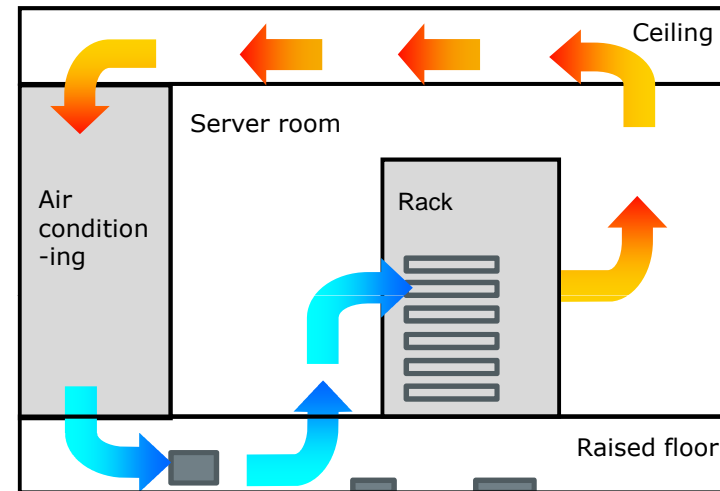
End wall injection air conditioning



Chimney rack



**【Conventional System】**



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# Optional Chillerless Cooling System

- A cooling method which expels heat from the server room by circulating water outside the building.  
It is simpler and more efficient than a conventional chiller system because it does not require a compressor or other equipment.
- As chillers consume a lot of power, particularly a peak times, a chillerless system frees up 30% more capacity for ICT equipment (when using equivalent power equipment).

|   | Conventional system   | Chillerless system  |
|---|---|---|
| Cooling method  | Uses heat pump principle such as compressor   | Expels heat via circulating water (Additional water can be sprayed on cooling towers in high temps) |
| SLA parameters  | Temperature: 18~27 °C<br>Humidity: 25%~60%<br>Compliant with ASHRAE TC9.9 Recommended | Temperature: 15~32°C<br>Humidity: 20%~80%<br>Compliant with ASHRAE TC9.9 A1                         |
| Energy available for ICT equipment<br>(Conventional system=1) | 1   | 1.3   |

*The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE): An organization that decides recommended server room temperature and humidity range, etc.*

## Chillerless system organization

