How to build truly sustainable cloud, the easy way

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What will you learn?!

By the end of this presentation you'll understand how to build truly sustainable(with heat reuse) infrastructure at low cost using widely available off the shelf components.

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Story time

Where it all started

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Current State of sustainabilty in Cloud/Hosting

🌿 Use of Green Energy is somewhat adopted

🫠We have gotten really good at trowing heat away (efficient cooling)

🌳Offsetting is used at scale

⚡We place datacenters near energy more often

❌ Heat re/use is a widely avoided subject

🚮PUE 1 = you trew all the heat away

📈AI will grow the energy used for compute

💸Datacenter costs are out of control

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Current State of sustainabilty in Cloud/Hosting

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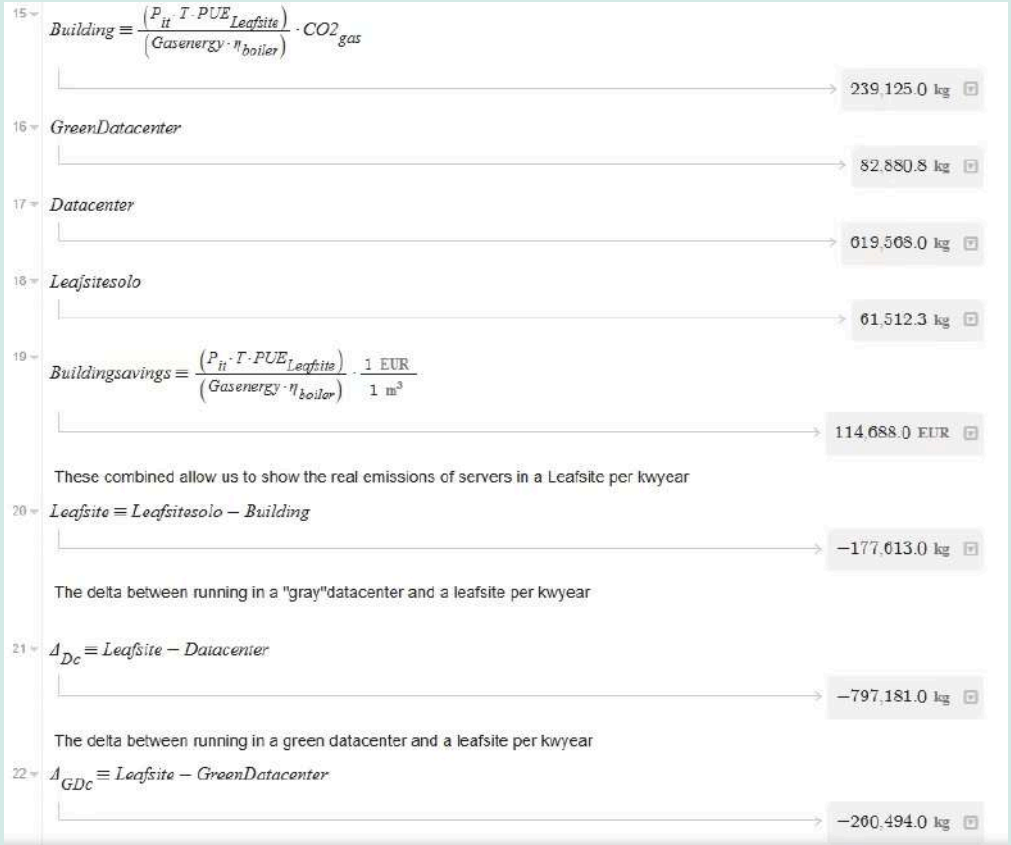
Current State of sustainabilty in Cloud/Hosting

- Centralized approach is hitting its limits
- We need to use waste heat
- Whats next?



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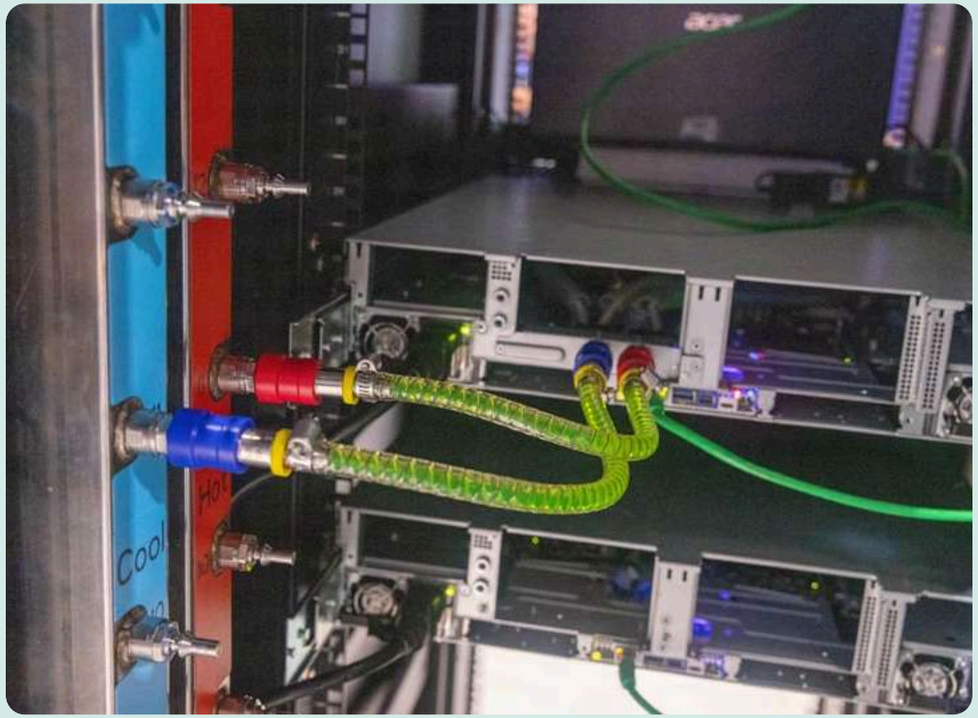
Current Options for Waste Heat Utilization

Water Cooling

- Effective for high-density data centers, but can be expensive to implement and maintain.
- Low heat reuse potential

Immersion Cooling

- Computing equipment is submerged in a non-conductive liquid to dissipate heat.
- Requires specialized equipment and careful liquid management to prevent leaks and corrosion.



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Convergent Evolution in Tech, from eco home to mini datacenter

Power backup = UPS

Energy = Grid

Cooling = Airco

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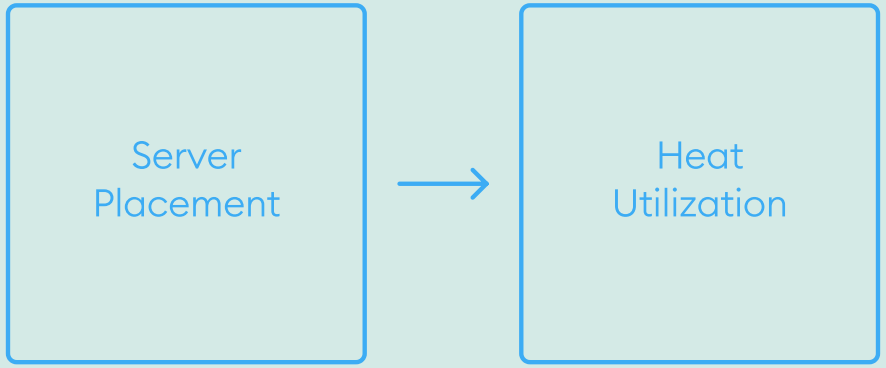
Waste Heat Utilization

By placing servers were heat is used this all comes together



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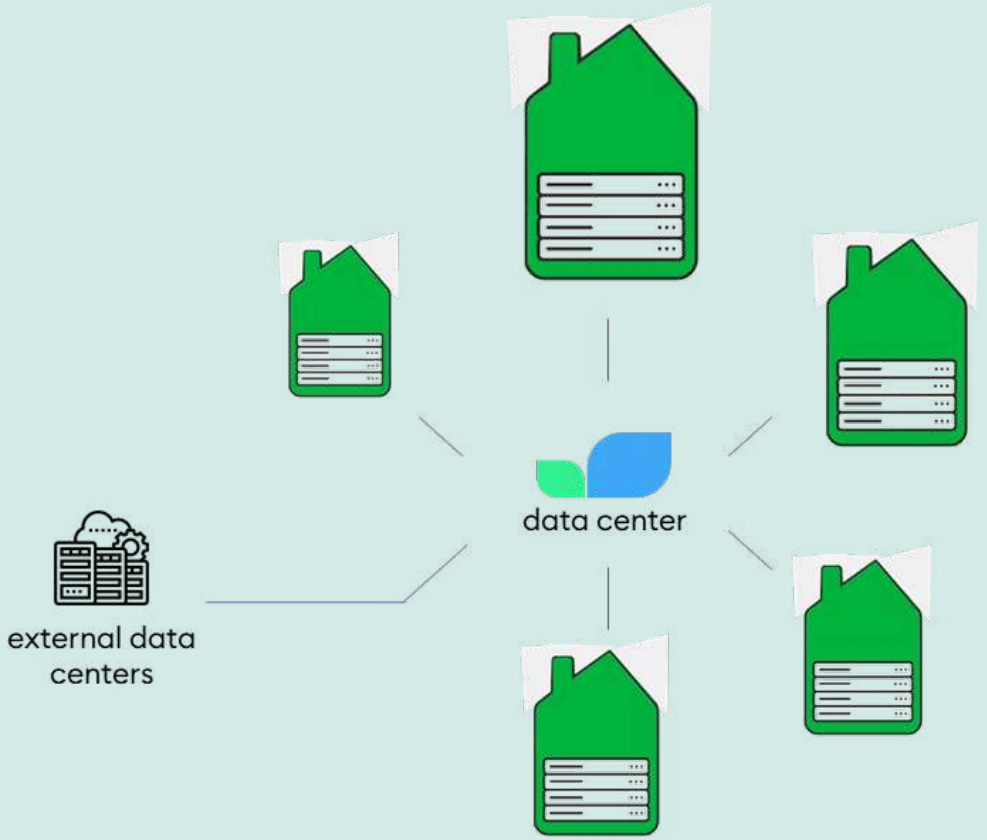
Separation of Data and Compute Locations

Put compute were heat is needed, and store where its safe



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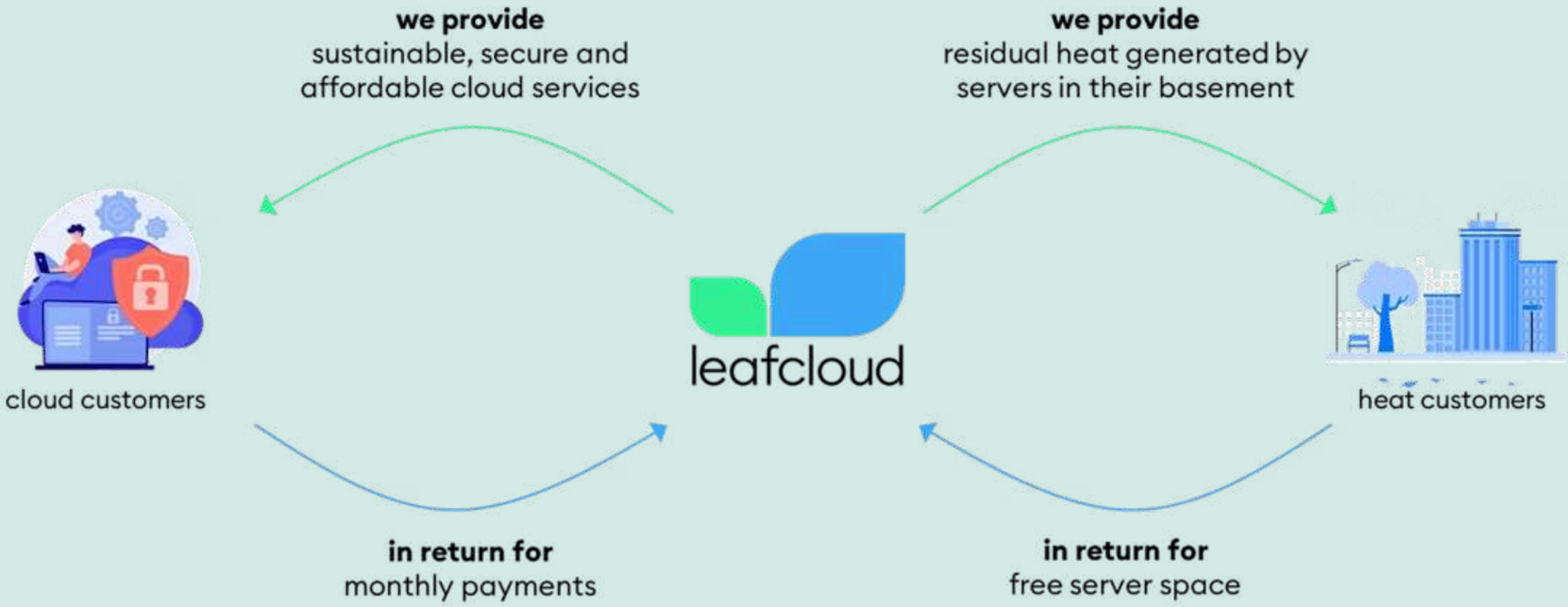
Leafcloud's Approach

- Leafcloud utilizes a decentralized approach to waste heat utilization in cloud computing.
- We employ a central datacenter for storage and leafsites for compute where waste heat is needed.
- This approach allows us to maximize the efficiency of waste heat utilization and minimize energy waste.



Now you know it can be done

Do it!

Or

Contact us, we are scaling this out as we speak and will help you on board

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