

How to create symbioses between Data and Energy



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The Data Center Facility Team was established on Oct. 29, 2021.

Integrate digital and power electronics technologies to build green and smart data centers, lead the industry development, develop the ecosystem, and become the best partner for global customers.





Huawei Has Won Various Awards, Widely Recognized By The Industry





Explosive Growth of Data and Computing Power in the Intelligent Era Drives the High-Density and Large-Scale Development of Data Centers





Cooling & Heat Recovery for an Optimal xUE



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Huawei: Tech4All, Environments and Development

Examples for Projects and Programs











Al project for Humpback salmon in Norway



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Al project for Humpback salmon in Norway







IT - Equipment



Energy vs. job acceptance



Energy efficient scheduling of HPC- jobs on virtualize clusters using host and VM dynamic configuration WesamDawoud



Sustainable – All Efficient: PUE \rightarrow xUE, One Dimension \rightarrow Multi-Dimensional System

Evaluation indicator: PUE \rightarrow **xUE**



CUE : Carbon Usage Effectiveness PUE: Power Usage Effectiveness WUE: Water Usage Effectiveness GUE: Grid Usage Effectiveness α / β / γ / δ are used to balance the importance of each indicator. The values vary with regions/industries. Sustainable – All Recyclable: Maximizing Resource Recovery Throughout the Life Cycle

Waste heat recovery



4R's Reduce Reuse Recover Recycle

Material recovery



Leverage waste heat for cooling/heating/power generation.

Recycle materials at component, room, and campus levels.

Technological innovation improves recyclability and leads to a low-carbon circular economy

Autonomous Driving – Operation Autonomy: Maximizes Resource Value

Resource optimization @AI

Intelligent matching between SPCN demand and supply

Energy scheduling @AI

On-demand scheduling of green power, energy storage, and backup power





We Do Not Inherit The Earth From Our Ancestors,

We Borrow It From Our Children.

