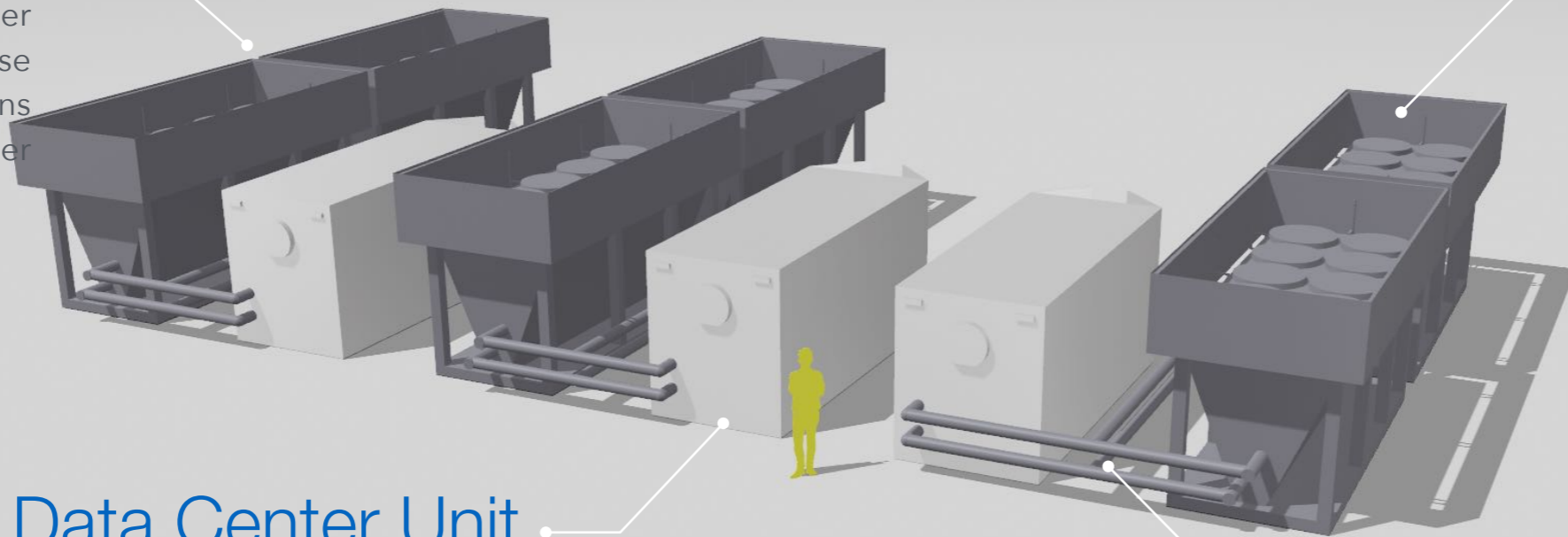# GOGO TECH HYDRO COOLED DATA CENTER

GoGo Tech Water-Cooled Solution

The only noise pollution emitted from our Data Center are the fans spinning on top of the Dry Coolers; very similar to a commercial AC units on the rooftop of the buildings.

Fan Shields

Fan Shields further reduces any noise produces by the fans on the Dry Cooler

Dry Cooler

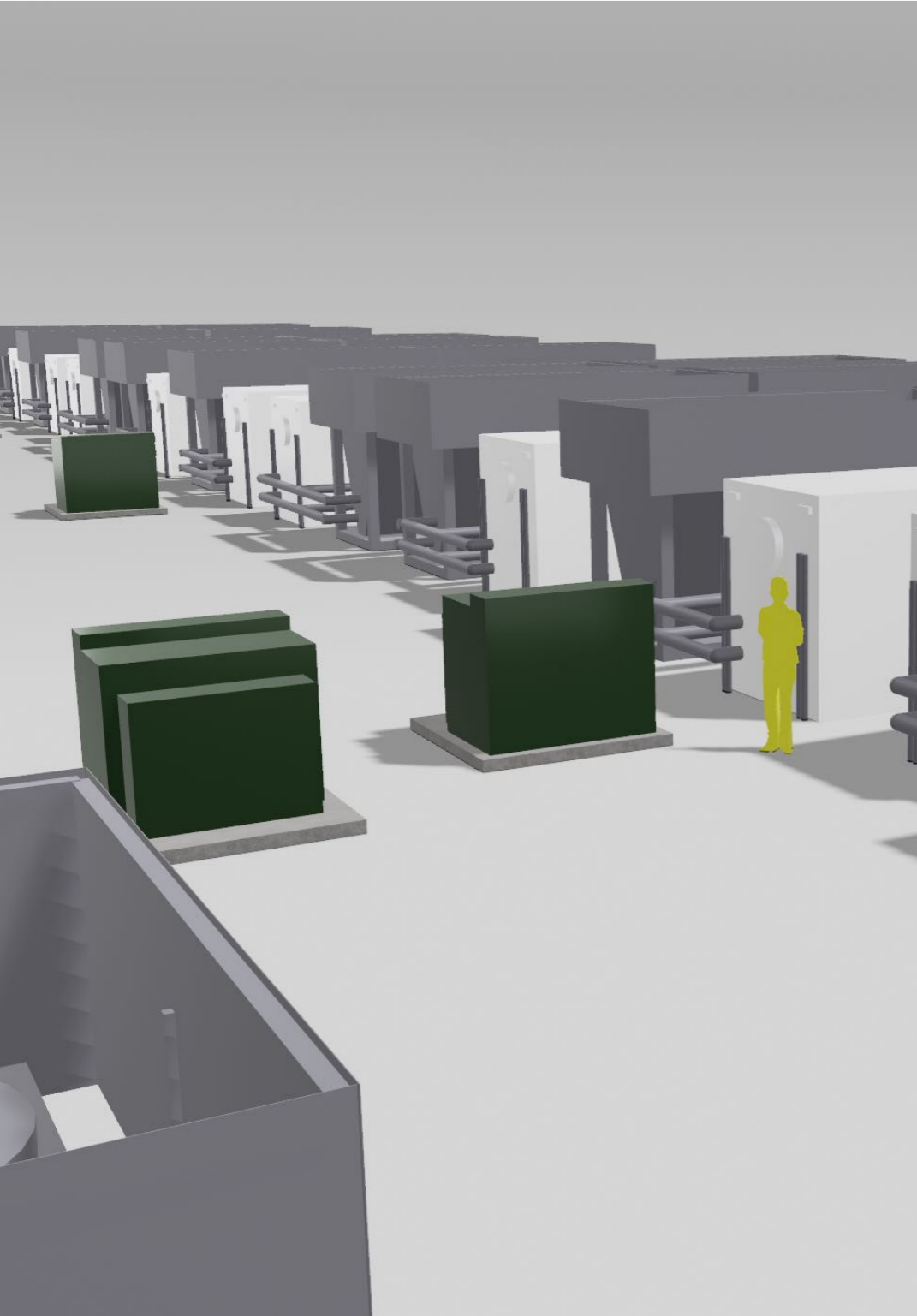Water is cooled by ventilation and returned back to Data Center Unit.

Fans are used to push hot air vertically from the Dry Cooler radiators.

Data Center Unit

All servers are located inside and rely 100% on water to stay cool.

Water Exchange

Servers are cooled by a close-loop water exchange.
External source of water is not needed.

HYDRO COOLING MITIGATES NOISE POULUTION

Reduced Noise Levels:

Water-cooled data centers significantly decrease overall noise pollution. Silent cooling process compared to the noise generated by traditional air-cooled counterparts.

Efficient Cooling Systems:

Water-cooling systems exhibit superior efficiency in maintaining optimal server performance. Reduces downtime and enhances reliability without compromising on noise reduction.

Eco-Friendly Impact:

Aligns with sustainability goals by reducing the environmental impact of noise. Supports a greener approach to data center operations, contributing to eco-friendly practices.

Long-Term Noise Reduction:

Offers a sustainable solution for noise reduction, contributing to a quieter operational environment over the long term. Counteracts the trend of increasing noise levels in data centers as technology advances.

CONCLUSION
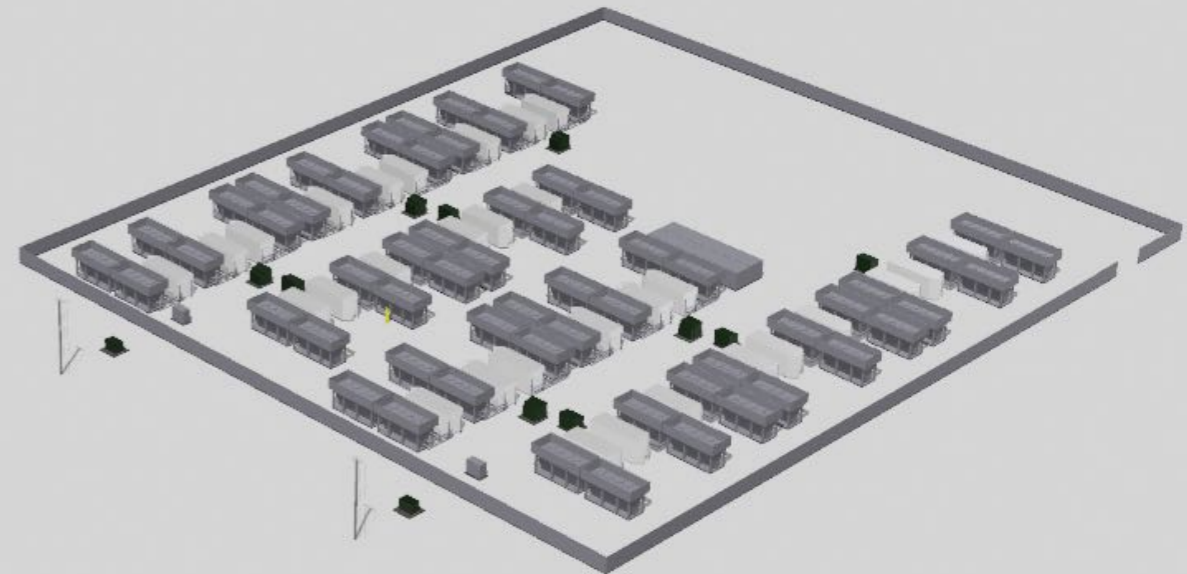## Lower Noise | Less Disruption | Energy Saving

Noise Elimination:

Water-cooled data centers effectively eliminate noise pollution issues in the community.
Invention of water-cooling was specifically to address noise emitted by air-cooled data centers.

Regulatory Differentiation:

Ordinances should distinguish between air and water-cooled data centers. It is essential for regulatory ordinances to make a clear distinction between air-cooled and water-cooled data centers. Both types of facilities possess distinct characteristics and impacts. Recognizing and accommodating these differences in regulatory frameworks ensures a more nuanced and effective approach to governing these diverse data center cooling methods.

Future-Ready Solution:

Water-cooled data centers represent a forward-thinking solution.
Demonstrates a commitment to quiet operation for neighboring communities and individual residences.

GoGo Tech Hydro Cooled Data Center | Andrey Kechik akechik@gogotech.org | c:971-295-4171