Data driven. Advancing a sustainable future.

More data has been created in the last

than ever before in human history Data center construction is on the rise



up from 2016-2017

Data centers

consume as much

(as) 7 million homes





Data centers have a carbon footprint larger than the airline industry

Approximately 38%

of each data center's energy usage is for air cooling electronics





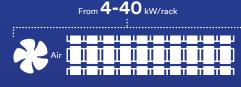
What if you could reduce that energy consumption

by up to



While:

Increasing power density



Up to 250 kW/rack



Reducing design complexity and maintenance



Minimizing water use

Shrinking the physical footprint by 10x



Up to 100 kW/m²

From the lab to the data center.

Immersion cooling on an industrial scale.



First commercial-scale installation of a data center immersion cooling system using 3M[™] Novec[™] Engineered Fluids



May: 3M Data Center Cooling Process wins Uptime Institute GEIT Award

October:

Allied Control's 500kW two-phase immersion cooled data center opens in Hong Kong, achieving a PUE of 1.02

3M wins bronze Edison Award for immersion cooling

3M, Intel and SGI debut a supercomputer using two-phase immersion cooling

November:

PEZY Computing and ExaScaler Inc. rank second on the Green500 list with a supercomputer using 3M immersion cooling

PEZY Computing earns all three top rankings on the Green500 list for projects using 3M fluids



The BitFury Group opens a 40MW immersion cooled data center with a PUE of 1.02

3M, Orange Silicon Valley, the U.S. Naval Research Laboratory, and Allied Control demonstrated new high-density, high-efficiency GPU computing technology at SuperComputing 2017



3M joins the Open Compute Project to collaborate on the challenge of creating a more sustainable data center

Cooling

without compromise.