

# ET Summit 2024

Presented by




# Low GWP and the Benefits to Campus Style Installations



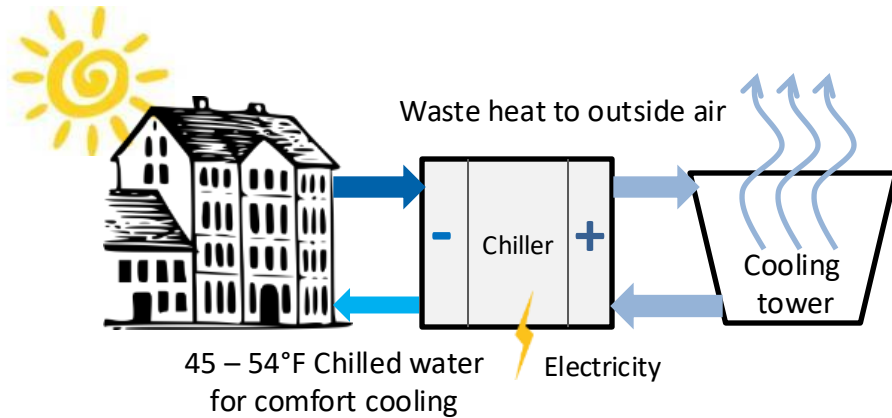
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## HigherEd & Low GWP Systems

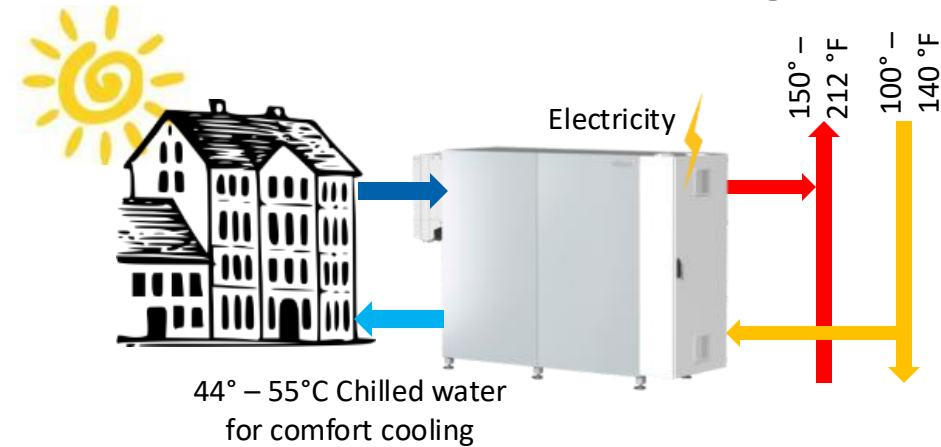
- Showing a ~60% decrease in global warming potential
- Best coefficient of performance(COP) attained through simultaneous heating & cooling applications
- Through cascading & modularity COP & reliability 
- Larger, interconnected campus layout, better savings

## Traditional Cooling Process



- The low-grade heat from the cooling process is wasted
- Expected COP 2 - 4

## Simultaneous Concept



- Heat from cooling process is recovered to DHN with heat pump
- COPcombined 4 – 7

# Simultaneous Heating & Cooling Application

Heat source: Space cooling

- Total cooling capacity: 531 Tons
- Heating capacity: : 9,263,964 MMBTU/h
  - Heat sink: District heating network
- Water temperatures (cooling/heating): 50 °F / 176 °F
- COPcombined 5.3
- Heat pumps: 5 pcs

This project was funded by...

For more information, contact [<program manager name>](#) at [<email>](#).

The project report can be found at [<link>](#).

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