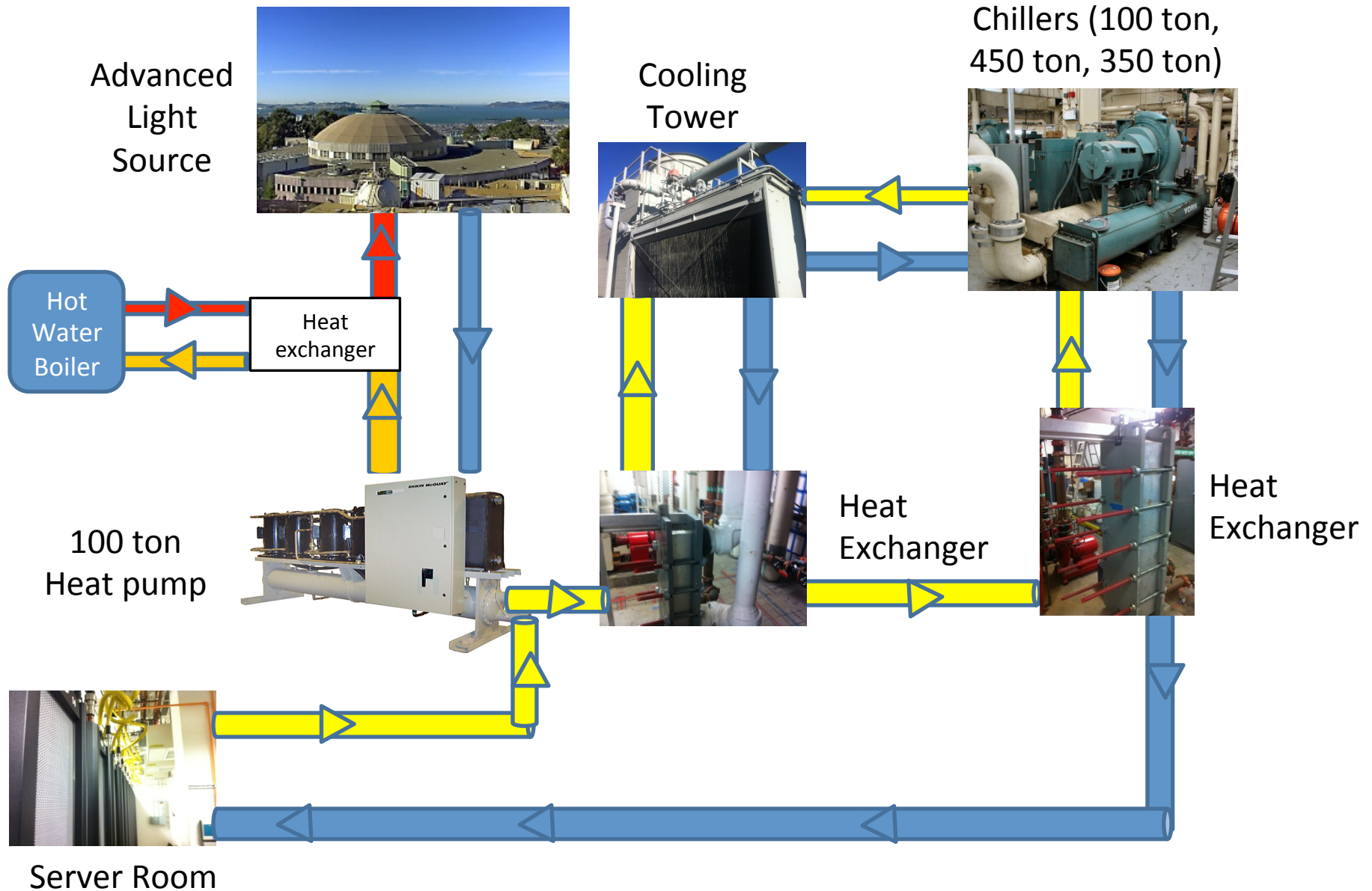


Planned Heat re-use at LBNL

- User Support Building
 - 18 racks, 270 kW design
 - Diverse computing equipment
 - Rear door liquid cooling
 - Higher temp. cooling fluid – 65F inlet, 73F out
 - Raise temperature through use of 100 ton heat pump (4 25 ton compressor units)
 - Provide reheat for adjacent accelerator building



Schematic of LBNL User Support Building server room cooling system



Planned Heat re-use at LBNL

- Computational Research and Theory (CRT)
 - Several HPC systems; many MWs
 - Free cooling – Evaporative cooling
 - Liquid cooling systems
 - Heat for office spaces in the building (small %)
 - Specially designed runaround coil
 - Provision for future heating of adjacent lab buildings (larger %)

