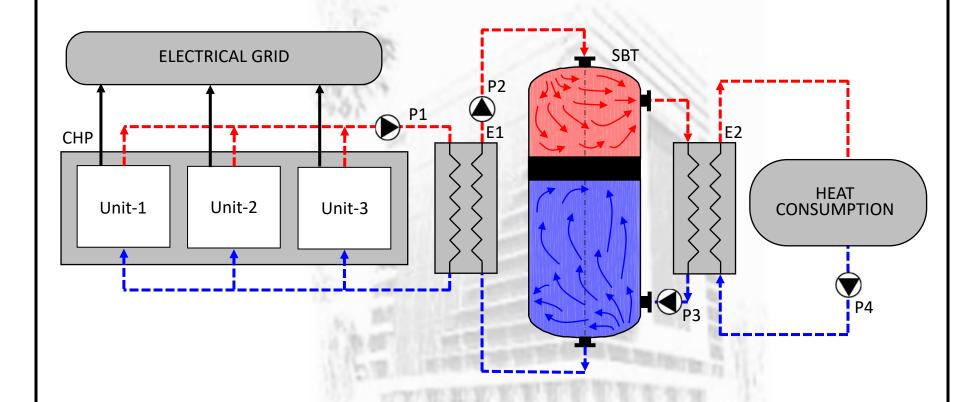


NEW SBT COMBINED HEAT & POWER

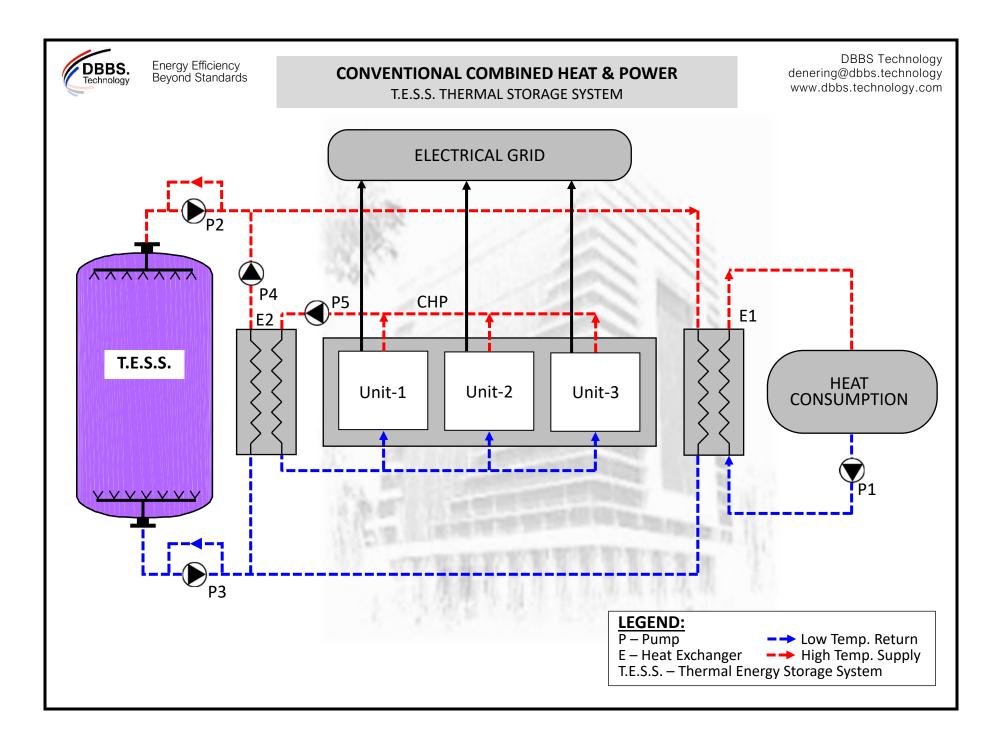
SBT THERMAL STORAGE SYSTEM

DBBS Technology denering@dbbs.technology www.dbbs.technology.com



LEGEND:

SBT - Split Buffer Tank Thermal Storage



CHP SBT-SYSTEM ADVANTAGES

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- The SBT/ZERO-MIXING improves overall plant thermal efficiency by eliminating heat-transferring diminishing-returns due to Water-Mixing during the reheating and storing process in commercial TESS buffers.
- Improve overall CHP system performance/economy due to doubling thermal-mass storage [CHP SBT-System runs at $\Delta T \approx 40^{\circ}\text{C/}50^{\circ}\text{C}$ compared to customary $\Delta T \approx 10^{\circ}\text{C/}20^{\circ}\text{C}$].
- Reduced conventional CHP-system hydronics oversize [including, piping & valves, pumps and VSDs].
- CHP SBT-System creates opportunities for greater CO2 emissions reductions.

HEAT BALANCE:

