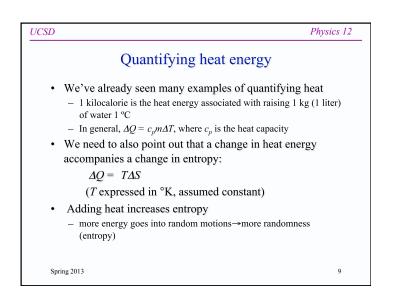
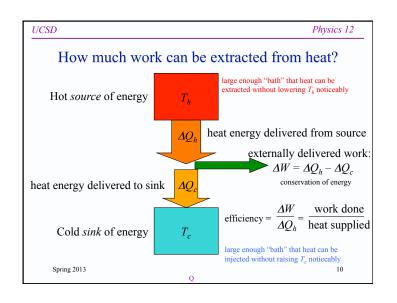
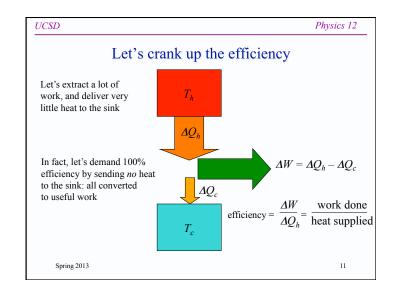
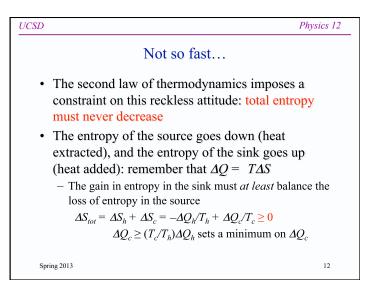


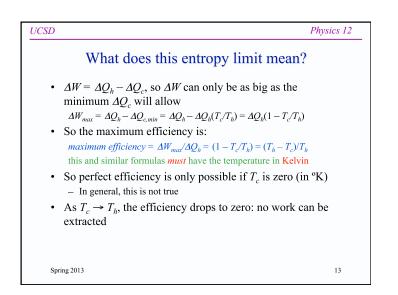
Spring 2013

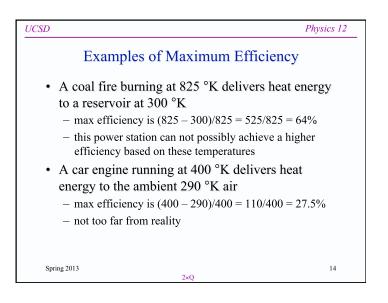


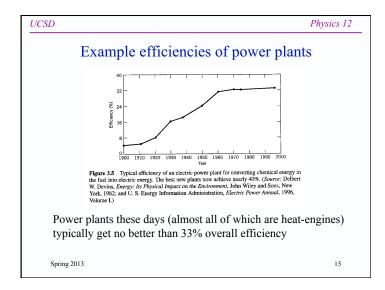


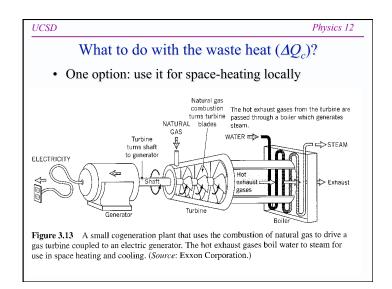




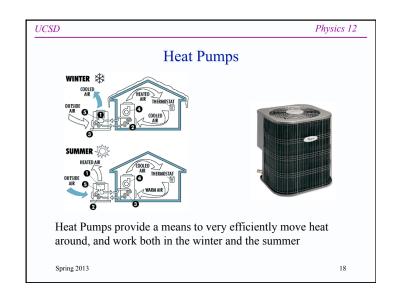


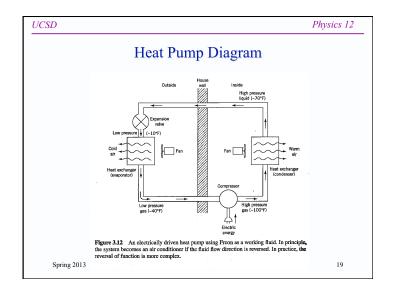


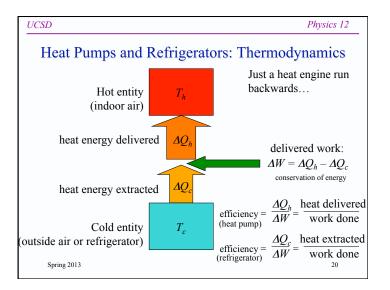




werall efficiency greatly	enhanced by cogeneration
Dverall efficiency greatly enhanced by cogeneration   Table 3.1 Cogeneration Plant, University of Colorado, Boulder	
Ingine	2 Mitsubishi industrial gas turbines
Jenerating capacity	32 MW,
Capital investment	\$41,000,000
Construction started	1990
System lifetime	40 to 50 years
Stimated payback time	15 years
verage exported electric power	8 MWe
Cost of electricity produced	\$0.024/kWh
rice of electricity sold	\$0.047/kWh
Annual income from electricity sales	\$1,600,000
Cost of electricity from public utility	\$0.068/kWh
afficiency for producing electricity	34%
Overall efficiency	70%







## Heat Engines

