





























Cross-cutting i	ng technologies ssues allow to overcome some in the different sources and the dem	•
Renewable Energy Sources	Examples of problems and CCT solutions	Heat demand in buildings and industry
Solar Thermal Biomass Heat Geothermal Heat (in addition: aerothermal, hydrothermal)	Time of peak RES yield is different from peak heat/ cold demand: Heat or Cold Storage Source requires large ca-pacity installation, demand is in smaller units (e.g. buildings): District Heating and Cooling Temperature levels of source and demand do not match: Heat Pumps Required capacity, temperature and relia- bility cannot be met with one RES alone: Hybrid Systems	Buildings: - Space heating (in colder season) - Space cooling (in warmer season) - DHW (all year) - Swimming pools etc. Industry: - continuous demand - batch processes with intermittent demand - seasonal processes (e.g. sugar refinery)











