



LOCAL DISTRICT HEATING

→ Even in small communities, district heating can integrate a number of local renewable energy sources.


THE SOLUTION


! Norway prefers to export their vast resources of hydropower and oil and use local renewable resources, if possible, for domestic energy consumption. Some towns are too small for cost-effective combined heat and power (CHP) plant – but other opportunities are available. Akershus Energi has, in Lillestrøm, for the first time in Norway, developed a small district heating system (160 GWh/yr) which is supplied almost entirely with local renewable energy sources: Wood chip boilers with condensation; large-scale solar water heating with a heat accumulator; landfill gas; heat pumps to utilize surplus hydro; and bio oil to meet peak demand.

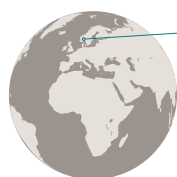
Akershus Energipark is recognized in the International Panel on Climate Change's report on renewable energy as an excellent example of how to integrate renewable energy for heating into the energy system.

WHY A SUSTAINIA100 SOLUTION?

? District heating provides a cost-effective option for integrating a multiple of renewable energy sources. The Akershus approach proves that many towns and villages have sufficient heat loads to establish a heating infrastructure that will permit them to store and use local clean energy resources.


ECONOMIC
Akershus Energi can provide cost-effective heating based on renewable energy sources.


ENVIRONMENTAL
The environmental impact of using the renewable sources, via district heating, is much lower than it would be with individual solutions, in particular wood.



NORWAY

