

The cooling challenge

Effects on global warming and the ozone depletion

Our planet is warming quickly. Rising temperatures, growing populations, and urbanisation lead to increased use of cooling. With growing cooling demand, also the indirect greenhouse gas emissions from electricity consumption increase.

The impact on emissions becomes even greater when considering the direct emissions from fluorinated (and chlorinated) refrigerants used in conventional cooling systems. The use of those refrigerants further increases global warming and ozone depletion.

The cooling challenge is to break this vicious cycle and tackle growing cooling demand while mitigating its adverse impacts on the ozone layer and the climate.

Indirect emissions
from conventional (fossil based) power generation to supply cooling appliances with electricity.

Direct emissions
by use of fluorinated (and chlorinated) refrigerants often occur and are caused by leakage, careless (re)charging and disposal or accidents.

