Cooling your home: How to connect residential buildings to district cooling?
IN FOCUS: DISTRICT COOLING

WEBINAR SERIES

- District Cooling in the Global South
- Cooling your home: How to connect residential buildings to district cooling?
- District cooling – benefits to real estate developers and building owners
- District cooling – unlocking efficiencies, renewables and waste heat
- District cooling and the Kigali Amendment
- Developing a district cooling project: planning, procurement and financing
- Local government actions and policies to scale-up district cooling
Worldwide stock and capacity of ACs by sector

Share of cooling in peak load and total electricity demand by country/region, 2016

70% of the increase in energy use for space cooling comes from the residential sector...

Energy use for space cooling by country/region in the IEA Baseline Scenario

From 8% of households with AC today in India, by 2038 this will be 40%.

Source: India Cooling Action Plan
WHAT IS DISTRICT COOLING?

District cooling plant

Heat exchangers

Supply pipe

Return pipe
• District cooling industry has developed historically in more developed countries.
• In these countries – residential sector cooling has either been a luxury or necessity – depends on geography.
• Not true for district heating which has long history in less developed countries where heat was a necessity – China, Eastern Europe, Balkans, Russia etc.
• Now cooling demand is rocketing in developing countries and becoming a necessity in residential sector and inevitable
• Public intervention in district cooling will be greater if public service increased and can support residential sector
  • Supportive tax policies
  • Supportive power prices
  • Mandated development

Challenge: How can we supply district cooling to non-luxury residential buildings?
Can the technology be simplified?
What are the benefits of doing this?
What are the barriers?
THANK YOU!

For more information on the District Energy in Cities Initiative and to become a partner, please visit the website or contact:

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