

A low-angle photograph of several modern glass skyscrapers reaching towards a grey sky. A semi-transparent network of white lines and dots is overlaid on the image, suggesting a digital or energy grid. The text is centered in the upper half of the frame.

E.ON ectogrid™

5th generation heating and cooling grid

The logo for E.ON, featuring the lowercase letters 'e.on' in a white, rounded, sans-serif font. The 'e' is lowercase and the 'on' is lowercase. The logo is positioned in the lower right quadrant of the image, partially overlapping the building's facade.

e.on

Forward to zero

Urbanization and sustainability are drivers in shaping the new decentral energy landscape.

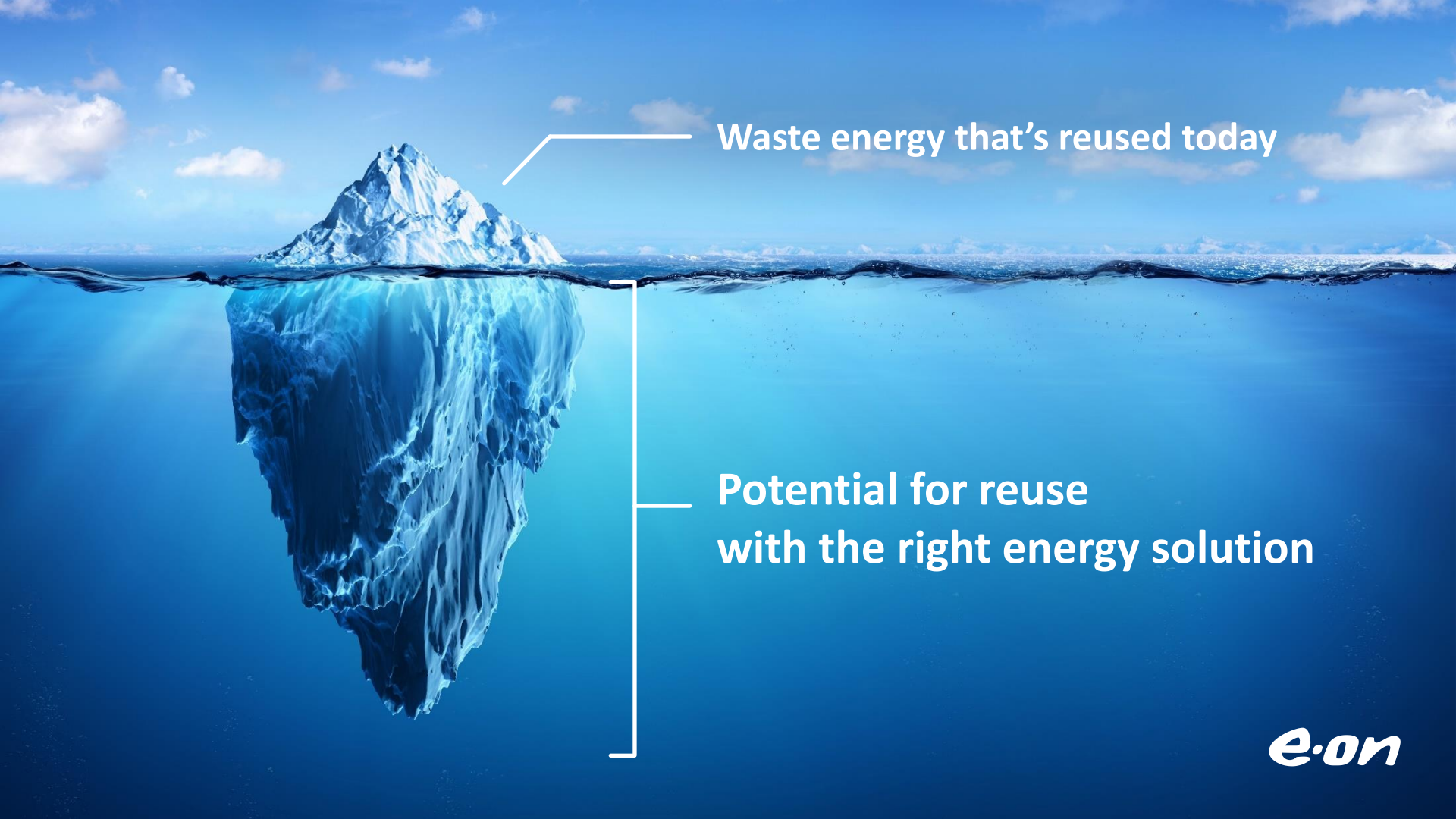
A key enabler to reducing CO2 is to lower the emissions from heating and cooling.



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Challenges

- ✓ Need to decarbonize existing city quarters with high energy and temperature demands
- ✓ Volatile energy markets with a lot of challenges and opportunities
- ✓ Electrification demands exceeding the pace of grid expansion
- ✓ Call for autonomy through joint optimization of heat, cooling and power



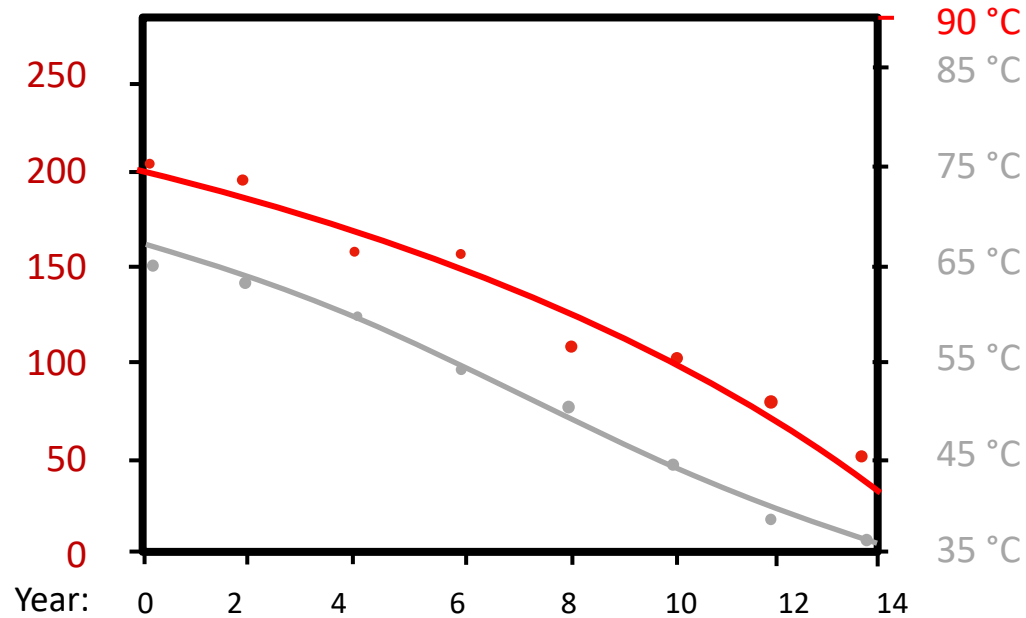
Waste energy that's reused today

**Potential for reuse
with the right energy solution**

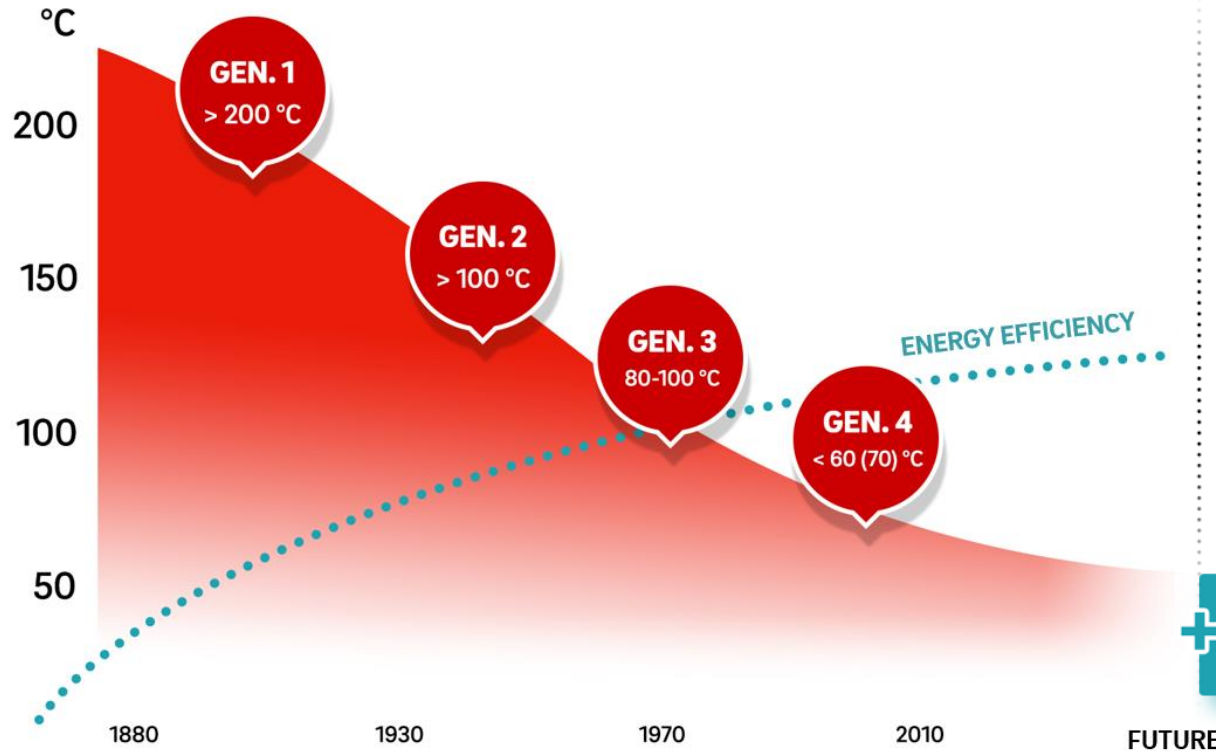
Retrofit - introduce energy efficiency measures over time and reduce the supply temperature

Energy consumption
[kWh/m² and year]

Radiator temperature



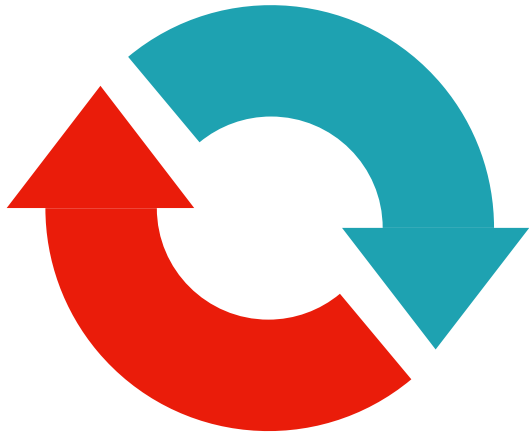
District Heating means constant evolution



- ✓ Warm
- ✓ Flexible
- ✓ Cold

Low and flexible system temperatures



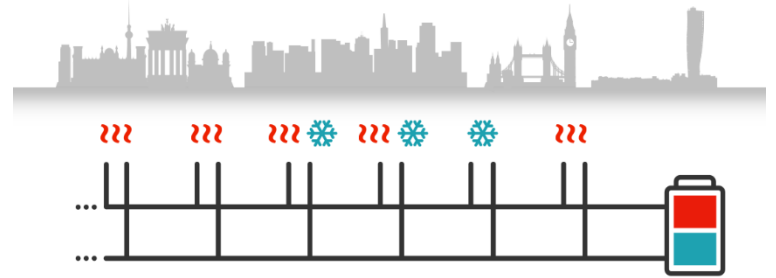


**A new way of
looking at heating
and cooling**

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ectogrid™



E.ON ectogrid™

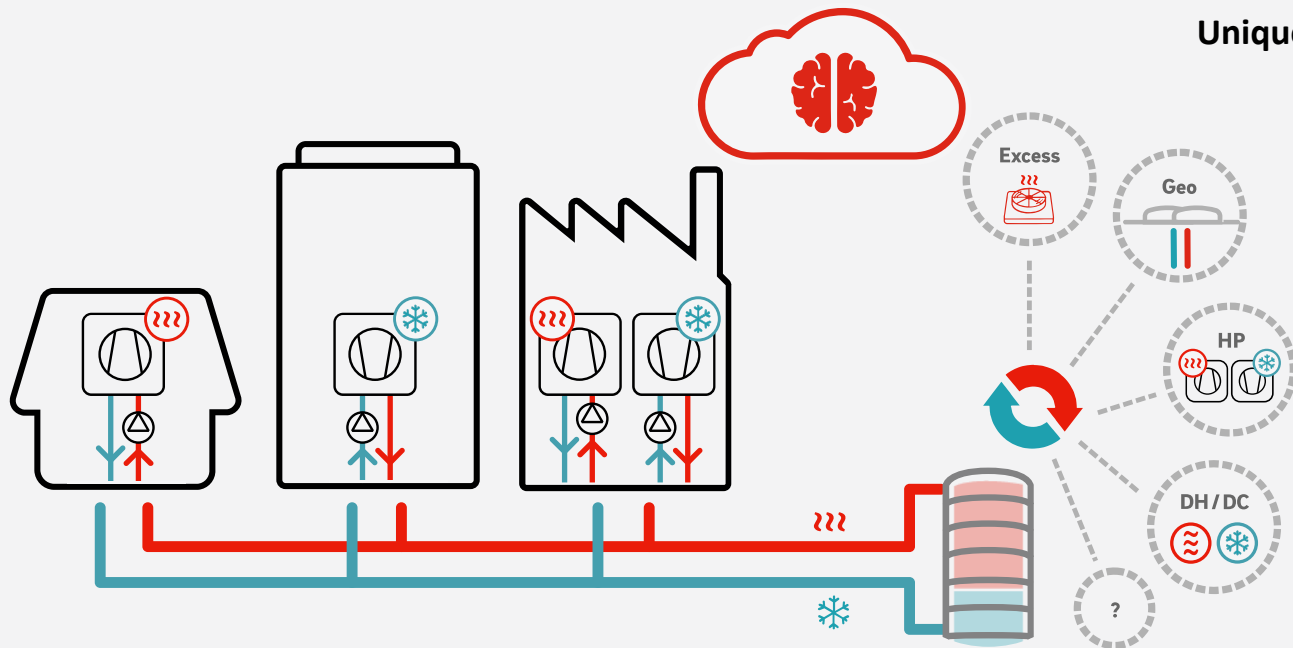
- ✓ One energy system for both heating and cooling
- ✓ Automated with innovative cloud technology – reduces operating costs
- ✓ Utilizes standard components – flexible and simple to scale up
- ✓ Low temperature network enable energy sharing between buildings and reuses low-level waste energy, reducing the climate footprint



ectogrid™

How does it work?

Conventional equipment.
Unique configuration.



ectogrid™ expands in Europe

- ✓ A driver for zero-carbon heating/cooling in cities
- ✓ EU:s taxonomi and ESG alignment
- ✓ Positive market feed-back





CASE: Medicon Village





15

commercial and residential buildings

14 GWh

heating and cooling – before E.ON ectogrid™

” E.ON ectogrid™ is an energy solution that goes very well with our goal and vision– a sustainable and inventive research park for science and innovation.”

170

Life Science companies, 2 600 people

65 %

expected decrease of added energy using E.ON ectogrid™

Erik Jagesten
CEO Medicon Village





CASE:
MIND, Milan



500 000 m²

of public institutions, offices
and residential

80 GWh

heating and cooling

100 %

renewable energy

70 %

expected decrease of supplied
energy using E.ON ectogrid™
and reusing excess energy

“We are very proud to have E.ON onboard for our MIND project in Milan. MIND is developed with high LEED and WELL sustainability rating targets. The all-in-one solution like E.ON ectogrid™ works so well with our visions and plans so we are really looking forward to implement it in the MIND district.”

Andrea Ruckstuhl
Head of Continental Europe,
Lendlease





Merwede, Utrecht

4800 homes
Commercial
space

Thank you!

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