# E.ON ectogrid™

A revolutionary energy solution for heating and cooling



# Challenges





## Waste energy that's reused today

## Potential for reuse with the right energy solution





## **District Heating means constant evolution**

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## Intelligent control

## Digital platform – controls and optimizes E.ON ectogrid<sup>™</sup>:



# Intelligent control

### **Prognostics and real-time capabilities**

E.ON ectocloud<sup>™</sup> makes data-driven prognoses for energy consumption based on weather, energy prices, local energy production and flexibility. The software can even adjust in real time as needed.

#### **Powerful operator interface**

The E.ON ectocloud<sup>™</sup> interface is the control room for the operator. It can show current status for the whole system as well as monitor individual plants in customizable dashboards. The interface also features an alarm management function to quickly identify issues.





# **E.ON ectocloud**<sup>™</sup>



1. Demand Side Management | 2. Control of heat pump/chiller power output | 3. Control of return temperature to the network | 4. Start/stop and prioritizing of active balancing unit (i.e., geo-energy, heat pump, chiller, district cooling, district heating)



## **E.ON ectocloud**<sup>™</sup>

**Extra features** 



### Design energy solutions,

Plan, dimension and simulate new energy infrastructure



## Powerful analysis

At the system level right down to individual plants



### **Smart APIs**

Take advantage of E.ON ectogrid<sup>™</sup> data in other platforms



# Why choose E.ON ectogrid?



#### 2-in-1-system

A complete energy system for heating and cooling



#### Minimize supplied energy

Always use all available energy in the system through balancing and sharing





#### **Reduce energy costs**

Limiting the amount of supplied energy means more competitive prices



#### Minimize climate impact

Enabling greater use of intermittent renewable energy can result in a zero-emission solution.



#### Cost effective and scalable

The lack of expensive special components means a decentralized system that you can scale up to cover more buildings or even a whole neighborhood.



## E.ON's patented technology for carbon neutral low temperature grids



#### Customer projects under development in seven different markets

Vision of Medicon Village

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# Medicon Village



15

commercial and residential buildings

170

Life Science companies, 2 600 people

# **14 GWh**

heating and cooling – before E.ON ectogrid™

**65 %** 

expected decrease of added energy using E.ON ectogrid™ " E.ON ectogrid<sup>™</sup> is an energy solution that goes very well with or goal and vision– a sustainable and inventive research park for science and innovation."

> Erik Jagesten CEO Medicon Village



Thank you!

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