

# Grundfos iGRID services

District Heating

**GRUNDFOS** 

Possibility in every drop



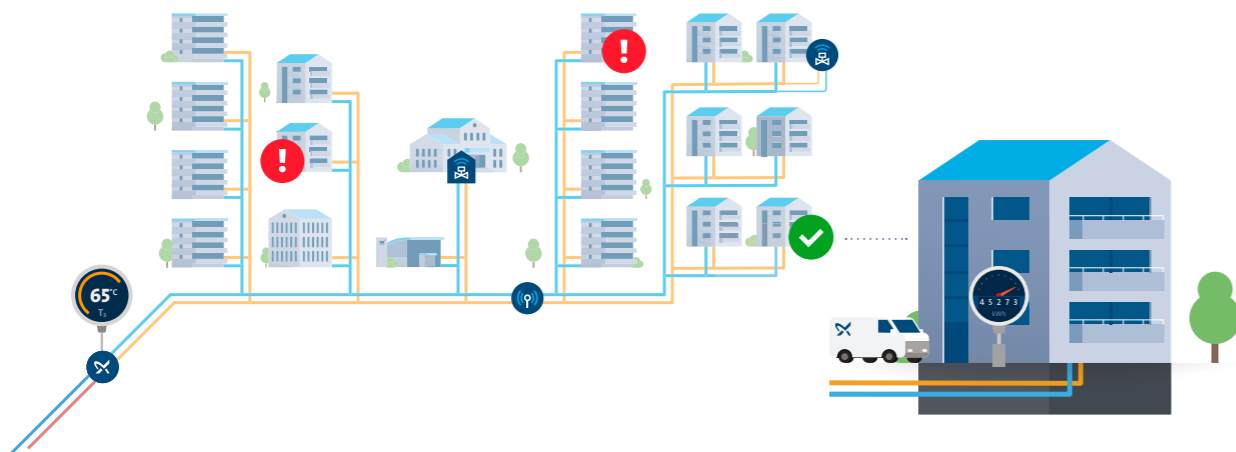
# Grundfos iGRID services for lowest possible return temperatures

In district heating grids, a few buildings are often preventing the grid from operating optimally. These buildings may be poorly balanced due to incorrect setpoints or issues with the installations, which leads to high return temperatures, high flows through the buildings and a large amount of unutilised heat energy.

With iGRID services, Grundfos delivers a complete building performance package with data analytics, physical building

balancing, reporting, plumbing through service partners and even coordination with your customers, if desired.

Following the iGRID Services, you will see significantly lower return temperatures, and you will be able to lower the supply temperatures even further, resulting in higher operational efficiency and reduced heat losses in the district heating grid.

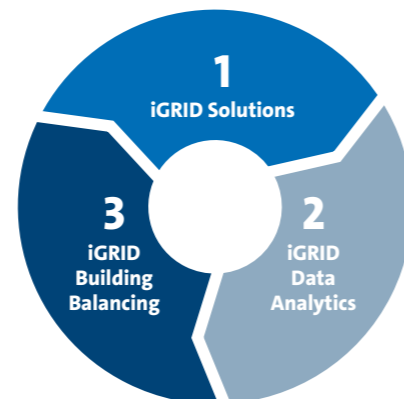


## The temperature optimisation circle

iGRID services complete the optimisation circle.

1. Our iGRID solutions in the grid provide the foundation for decentralised low-temperature zones with pre-fabricated mixing loops, pit measure points etc., and we lower the temperatures as much as possible under the given circumstances.
2. iGRID Data Analytics ensure that the right buildings are identified for optimisation purposes and our coordination ensures a high acceptance rate from the building owners regarding performance investments.
3. iGRID Building Balancing ensures that the building installations are optimised with a lower return temperature and improved customer satisfaction as the outcome.

Once the optimisation circle is closed, the supply temperature can be lowered once again, reducing heat losses even further and improving the conditions for utilising a larger variety of renewable energy sources and surplus heat.



# The iGRID end-to-end service package

## 1. Define the area

Choose the area where you would like to reduce the return temperature



## 2. Share data according to GDPR

Make a data handling agreement with Grundfos in order for you to share your meter data from your customers



## 3. Meter data analysis

Grundfos analyses the meter data to create a prioritised list of buildings with the lowest differential temperature



## 4. Communication with the customers

Grundfos creates a text which you can send to the customers that require an iGRID Building Balancing visit



## 5. Coordination

Grundfos will get in touch with both the building owners and tenants that have not responded to the information sent by you. In this manner, we assure that all customers with a problematic return temperature will get a building balancing visit



## 6. Building balancing

Grundfos carries out iGRID Building Balancing where incorrect setpoints are adjusted, failures are identified and Grundfos provides a report on necessary changes. The report will be sent to the building owners, tenants and to the district heating plant



## 7. Follow-up on report

Grundfos follows up with your customers regarding the necessary installation changes



## 8. Installation changes

Grundfos ensures that the necessary changes in the building installations are done to finalise the optimisation.



## Grundfos iGRID is a solution range for district heating

With this range we fight heat losses and prepare for utilisation of renewable energy sources through intelligent temperature control.

By creating zones with mixing loops, temperatures can be lowered to meet the actual demands in those zones and thereby deliver exactly the heat energy needed – nothing more and nothing less!

**Find out more about the Grundfos iGRID concept by contacting your local Grundfos Sales Company or visit [grundfos.com](http://grundfos.com) form more information.**

