

## **Landis+Gyr ... our Contribution**



...the global smart metering leader and a smart grid pioneer



### Landis+Gyr Global

- Active in over 96 countries
- Over 5,900 Employees
- Different competence centres for energy products, solution, infrastructure
- Comprehensive solutions for electricity, heat / cooling and gas
- Advance Metering Infrastructure
- Industries largest R&D resources
  - 1,389+ engineers in 24 R&D centres



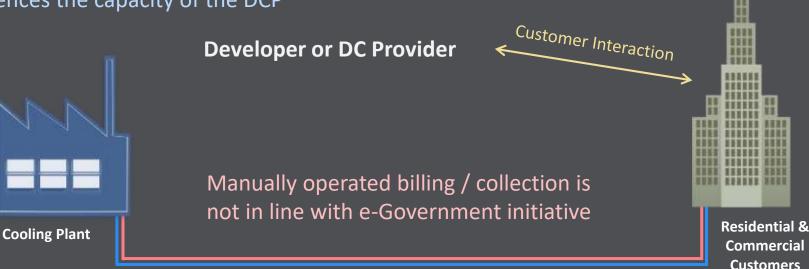
## **Situation Today: Lots of Interactions**



District Cooling provider are facing (end) customers directly

Billing based on size (square feet) negatively influences the capacity of the DCP

Billing disputes and legal actions between DCP and end customers



## **Situation Tomorrow: One Face – Less Worries**



### Together with technology partner is the face to the (end) customers

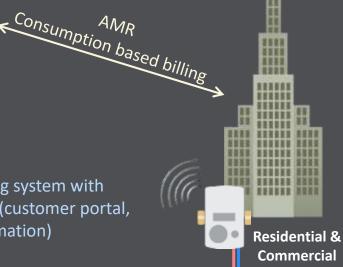
Consumption based billing will reduce energy usage by (end) customers and lead to a reduction of needed DCP capacities



**Partner** 

AMR with control room for permanent network monitoring (e.g. meter alarms)

> Integrated billing system with online features (customer portal, payment, information)

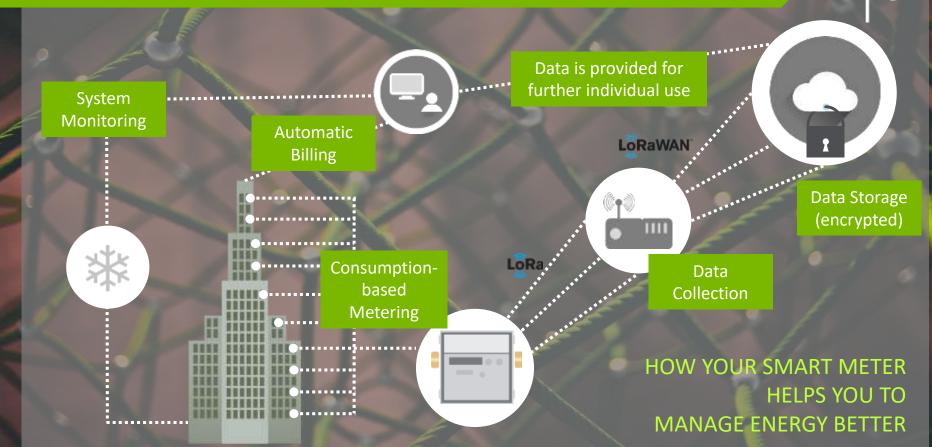


**Cooling Plant** 

Customers

# **Smart Metering Solutions**

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## **Benefits for DCP User**





- Customer Interaction Handled by Provider: As one face to the customer
- DCP Capacity Reduction: consumption based billing leads to a reduction of needed capacities
- Quicker Customer Response: permanent network monitoring with AMR
- Faster and State-of-the-Art Billing: online based billing features (customer portal, online payment, information)

**EARN MONEY – SAVE COSTS** 

**SUSTAINABILITY – SAVE RESOURCES** 

## Meter Data Management – Automated Data Transfer

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- Automatic Acquisition of Data
- Quick Data Preview
- Management of Templates and Measuring Devices
- Data Visualization (graph, table, chart, etc.)

#### **GOAL:**

- Enhance Quality, Performance, Interactivity
- Reduce Costs, Resource Consumption
- Real Time Data and Response

**Automated Data Transfer** 

## From Meter-2-Cash to Increased System Efficiency





# Sub-Metering – Benefits from the AMI

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#### **Utilities**



- System Control
- Secure Investment
- ROI → Earn Money
- Influence Customer Behavior
- Satisfied customers

#### Customer



- Consumption Based Billing → Fair Invoices
- Improved Customer Service
- Increased Awareness of Energy Consumption

#### **Environment**



- Reduced Energy Consumption
- Reduced CO2 Emissions
- Energy Savings → Preserve Resources



# Special Case: Retrofit Business

- Using the Existing Infrastructure
- Sustainability

#### WHY?

- UAE, the Dubai Supreme Council of Energy set goal reducing energy demand
- Whopping **30%** before the end of 2030
- DEWA process of retrofitting 30,000
  buildings investment value of \$8 billion
- Secure savings of over \$22.33 billion
- Just one Example



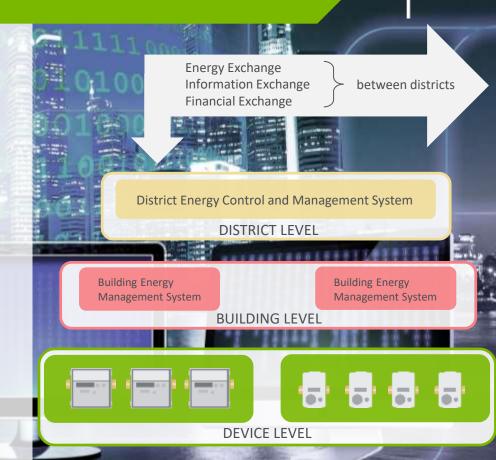
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# **System Control**

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High Quality and Quantity of data enables:

- Remote Monitoring, Control and Optimization of district cooling system efficiency and performance
- Cost and Time Reduction
- Positive Impact of Carbon Footprint
- Modern Web-based Solutions
  → Because: YOU CAN ACCESS THE
  SYSTEM FROM EVERYWHWERE!



# Digital Transformation and Smart Added Value

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- Temperature Deviations
- Detecting Leakages
- Detecting Pipes in Service
- Actual Load in Distribution Networks

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This leads to better processes that increase overall efficiency and reduce costs.

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- Automated Data Transfer
- Higher Data Quality and Quantity

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- Simplified Workflows
- Time and Cost Savings
- Optimization of Data Management and System Control
- Increasing System Efficiency





