



Internet of Things Using Wireless Networks

- Self-configuring and self-healing topology
- High data transfer rates up to 100 kbit/s
- Long-range communication (100 m to 10 km), depending on circumstances
- Various applications: district heating, district energy networks, control systems, industrial control networks
- Robust in difficult terrain, e.g. works out of reinforced concrete basements
- No external antenna necessary
- AES encryption: no tampering or tapping





Application District Heating Network



- 60 nodes
- Software interface to aggregation node
- Spans 500,000 m²
- Typical distances: 50 to 200 m
- Urban surroundings, nodes in basements
- Interfaces: LAN, RS-232, RS-485, M-Bus, TTL

VATTENFALL

Gewobag
Die ganze Vielfalt Berlins.

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