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## Ampy



Sales US\$100 million pa 700 Employees Leading worldwide supplier of electronic electricity meters Market Leader in UK (40%) and Australia (65%) Operations in UK, China, Australia & New Zealand > Annual volume 1.7 million meters Rapid growth over last five years: Ampy UK has trebled volumes Recently acquired by Bayard Energy



## Bayard

Australian based company intending to invest up to US\$ 500 million

- Buy to build strategy: looking for businesses with long term growth potential
- Environmental aspect to investment criteria for long term growth: totally committed to "smart" metering concept

Bayard bought Ampy in 2003 and has recently announced the acquisition of Landis + Gyr, the world's largest electricity meter business



# Ampy's Experience



### Enel project

- > Worlds largest AMR project.
- 24 million single phase, 3 million polyphase meters
- PLC based system for electricity meters with data concentrator at LV sub-station.
- Mainly GSM communications from sub-station back to Enel
- USD 2.2 billion investment
- 19 million meters installed, full two-way management under way



# Enel project – Ampy's role

- Ampy developed single phase meter + family of three phase meters
- Third parties supplied PLC chip-set and data concentrators (Echelon, Kaifa)
- Enel developed in-house software for internal processes
- Meters manufactured by third party manufacturers for lowest product cost (with help from Ampy!)
- Ampy remains involved to support the project during roll-out
- A team approach to deliver a tailored solution to Enel



### Enel project

Why did Enel choose to work with Ampy?
 Previous experience of plc systems
 Proven design / design for manufacture ability
 Mass volume
 High functionality
 Cost effective
 Business model based around sub-contract

manufacturers as the most effective supply chain



### Enel: reasons for the project

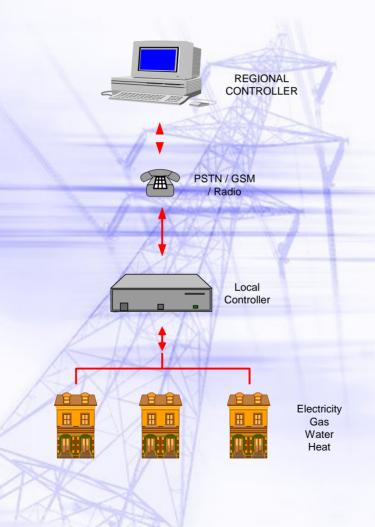
- Four year payback on USD 2.2 billion investment
   Drivers:
  - Cost reductions:
    - automation of data collection: accurate bills
    - change of contracts, tariffs
    - remote connection / disconnection
  - Customer service
    - bill accuracy
    - resolution of queries
    - better tariffing
  - Revenue protection
    - Fraud prevention
    - meter accuracy
  - Network monitoring



# MAINSTALK









## WHAT DOES MAINS TALK<sup>TM</sup> PROVIDE?

TARIFF INFO.
DISCONNECTION
RATE SWITCHING
PREPAYMENT/CREDIT TRANSFER

ELECTRICITY SUPPLIER

CUSTOMER

BILLING INFO.
FRAUD DETECTION
HALF HOUR PROFILE DATA
NETWORK MONITORING
ADDITIONAL UTILITY METER READINGS (GAS, WATER, HEAT)



### Mainstalk experience

### About 50,000 units installed

- Recent contract signed for small European utility for complete roll-out
- Benefits:
  - Similar to Enel!
  - Other utility metering inputs (gas, water, heat)
  - Meter mapping: greater visibility of the installed base



### Demand response: a trial in Australia

- 1 November 2004 start with Country Energy
- Voluntary participation of customers

### Trial to include:

- advanced metering and communications technologies (SMS messaging and PLC)
- innovative tariffs
- 'in-house displays' to provide customers with real-time information about their consumption and costs.

### Testing customer response to price signals that reflect system costs

Lower off-peak rates, higher on-peak rates, additional 'critical peak' rates occasionally

### Tariffs structured so...

- utility remains 'whole' financially
- customers who respond to price signals will be better off financially than now

### In-House Display

- Real-time provision of consumption and price figures on electricity
- Equipped to communicate other environmental attributes like water, gas, greenhouse



### **Ampy Metering**