



EDF

*Electricité
de France*

**California Energy Commission workshop,
February 1st, 2005**

**Richard Schomberg
VP Research & New Technologies**

R & D



42 million customers, 26 countries

122.6 GWe installed capacity, 22% generation capacity of Europe

France: 27 million customers

2004, 70% of the market deregulated (C&I)

2007, market 100% deregulated

UK EDF Energy : 5 million customers,

market 100% deregulated



European market : New Paradigm

Reregulation

→ Utilities are willing to increase customer services to be competitive in this new market

New players, need more frequent access to data

→ “standard communication protocols must be developed by Distribution System Operator” French regulator

EU Directive : saving 1% more energy each year

→ a potential market for energy efficiency worth between 5 and 10 billion euros/yr

EDF Metering systems today

✓ 10 Million meters allowing demand response since 25 years (includes 25% of residential meters)

✓ EDF buys 1 Million solid state meters a year

✓ A reference design for each category of meter

✓ EDF is deploying a new information system



EDF is preparing the 2007 opening of the residential market

- ✓ Services and energy efficiency solutions
- ✓ “Internet meter”
- ✓ New reference design, to be provided to multiple manufacturers
- ✓ Improve capability of remotely reconfiguring the meters



If we can dream it....we can do it !

- ✓ US experience of competitive markets and European experience of standards
- ✓ Energy markets need critical mass of enabling technologies
- ✓ Fantastic business opportunities, as well as new energy savings !