EMS, Network state estimation Network Fault Diagnosis Cyber System

Wired Data Line

Wired Command Line

Wireless Command Line

Wireless Data Line

**Power Character** Fusion Distributed Fault Diagnosis **Demond Side** Management

Data Acquisition Unit, Data Acquisition Unit, ••• DAU2 Electrical Line DAU1 **Smart Meter Intelligent Terminal** Building-area Network Energy Service Interface, ESI (Customer) IEEE 802.15.4 S Protocol **Building-area** Network Home Area Network Power Quality: V, I, P Appliance Appliance . Appliance Appliance | Physical System

Meter Data

Management System,

MDMS

Power Metering Fault Supervision

## Real-time Price Info **Network State**

Real-time Price Info **Network State** Personal Power Info



