

#### ITALY-SAUDI ARABIA: BUSINESS AND INDUSTRIAL COLLABORATION FOR ENERGY AND BUILDING TECHNOLOGIES

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- Development of the electrical network
- Italian RES generation trend
- Feedback from the 7 Smart Grids Pilot projects
- Smart Devices and solutions applicable to other fields





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#### **Traditional power grid**





## The evolving grid





#### The evolving grid







#### **Structure of the Smart Grids**



#### **Topics**



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In 2000: RES - 51 TWh (18,4% of total gross energy generation) In 2013: RES 112 TWh (38,6% of total gross energy generation)

#### **Electricity generation from** renewables in Italy





10

112.008

92.222

52.773

82.961

41.875

17.090

21.589

76.964

45.823

18.862

Totale

51.117

10.796





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## **7 Smart Grids Pilot Project**



- Role of the Authority (bonus /malus approach)
- Selection of 7 pilots
- Development of smart devices, identify solutions
- Measuring KPI
- Deployment





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## Smart Devices and solutions applicable to other fields



FEDERAZIONE NAZIONALE IMPRESE ELETTROTECNICHE

CONFINDUSTRIA

ANIE

#### **Smart devices and solutions**

- Service continuity
  - Process plants
  - Airports
  - Data centers
- Remote controlling
  - Electrical Utilities
  - Water distribution systems
- Energy efficiency

### **Electrical grid**



# Smart and energy efficient components from Main components from Italian manufacturers





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Thank you for your attention