The Distribution Network for the Smart City

Stresa, 27/08/2015



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Enel Distribuzione S.p.A.



EXPO Milano 2015 The Site



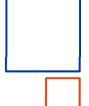




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Issuing: I&N Italy



EXPO Milano 2015





May 1 to October 31, 2015

1,1 Mln m2 between Milano and Rho
75 MW required

160 temporary buildings
2 office buildings + 1 EXPO operation
1 representative building (3500 m2 h 24 m height)
> 20.000 m2 of Greenhouse
340 flats + 14 service areas

30 electric people mover (range 100 km)
50 hybrid bus (range > 100 km)
10 electrical cars and 50 electrical freight transport
Media Center



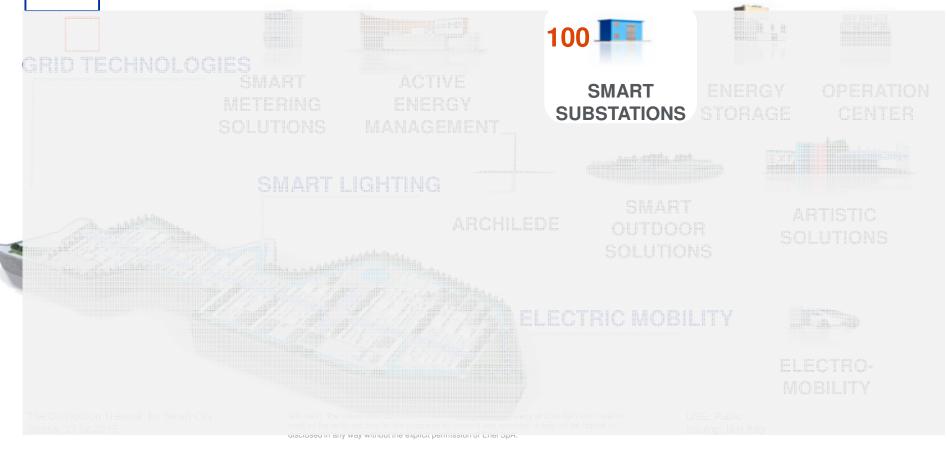
Show case of worldwide and innovative technologies

The Distribution Netwrok for Smart City Stresa, 27.08.2015

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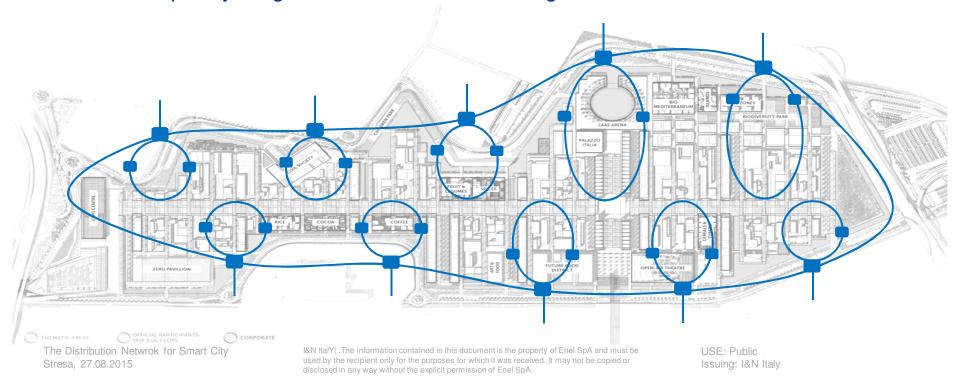








The services provided by Enel Distribuzione allow the Pavilions to be completely integrated with the meshed configuration of EXPO Smart Grid



EXPO Milano 2015 Power equipment











Fault Recorders
Directional and
Measurement

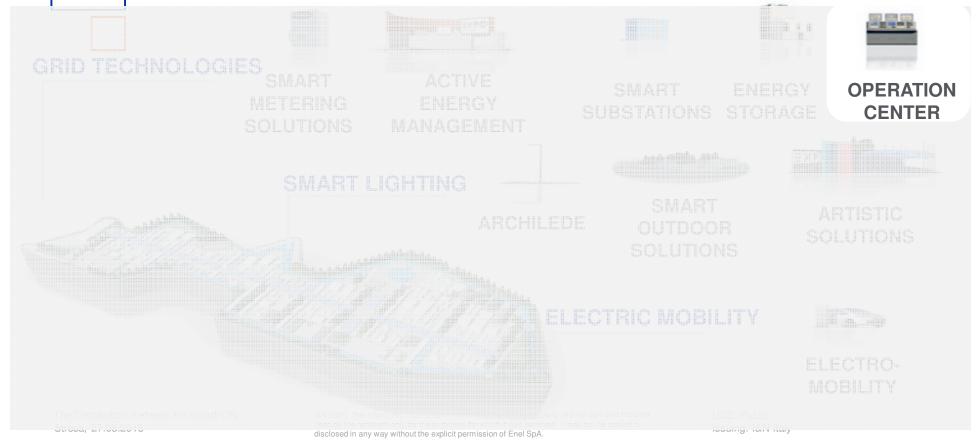
Smart Termination

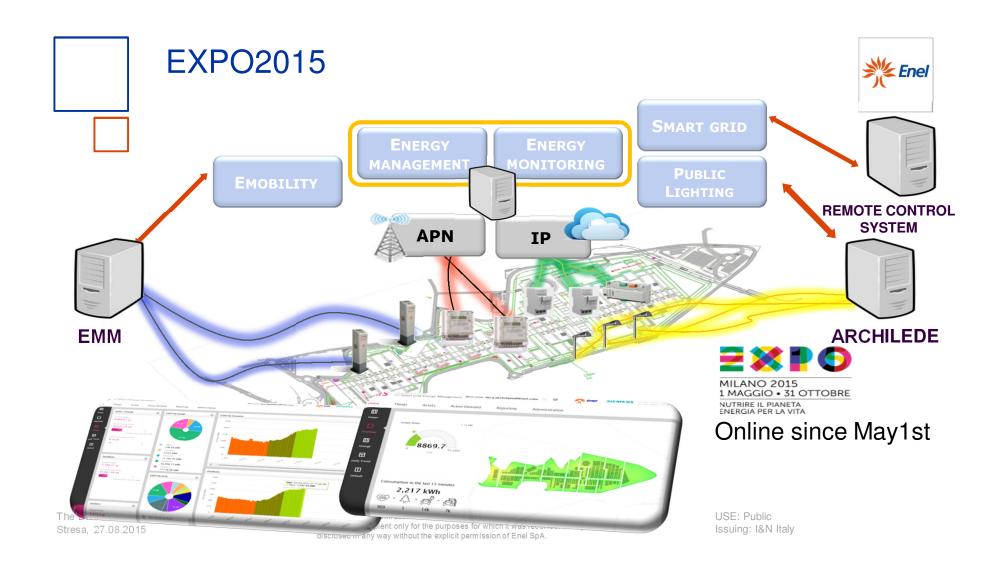
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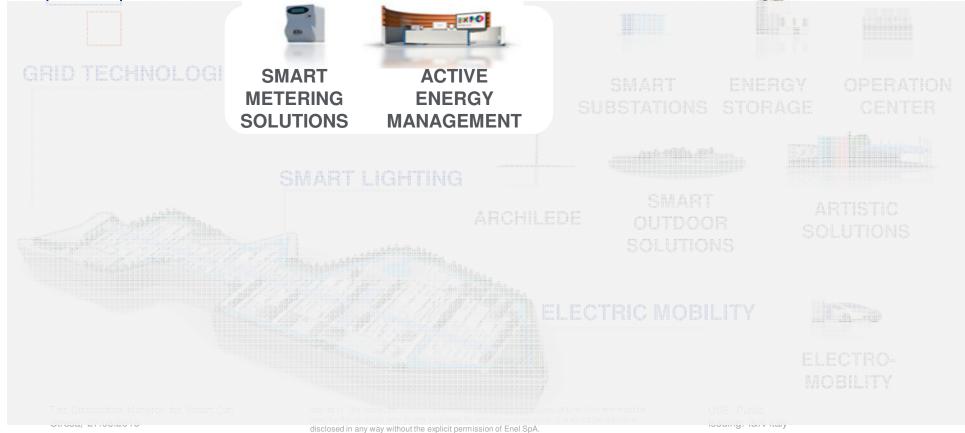
















Enel Smart Meter



Enel Smart Info



Sensors & Actuators

Automation Station Controller

Digital multimeter for measure

Presence / Motion detector brightness sensor

Fan Coil Controller

Wireless and batteryless temperature sensor room

LV Monitoring Kit - WiFi connected to the Cloud of EMS
The Distribution Network for Smart City

Stresa, 27.08.2015

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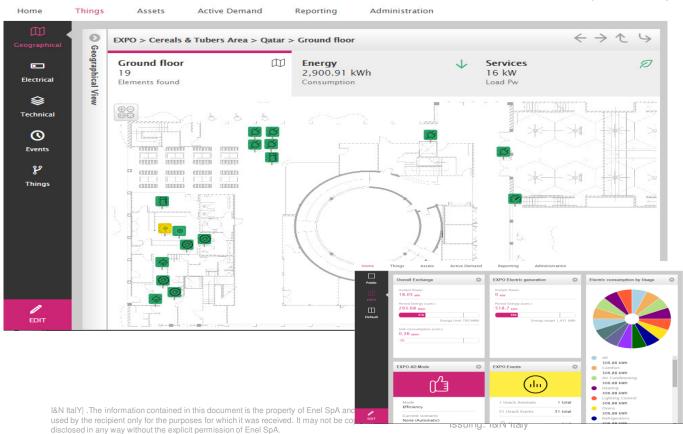
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Energy Management System









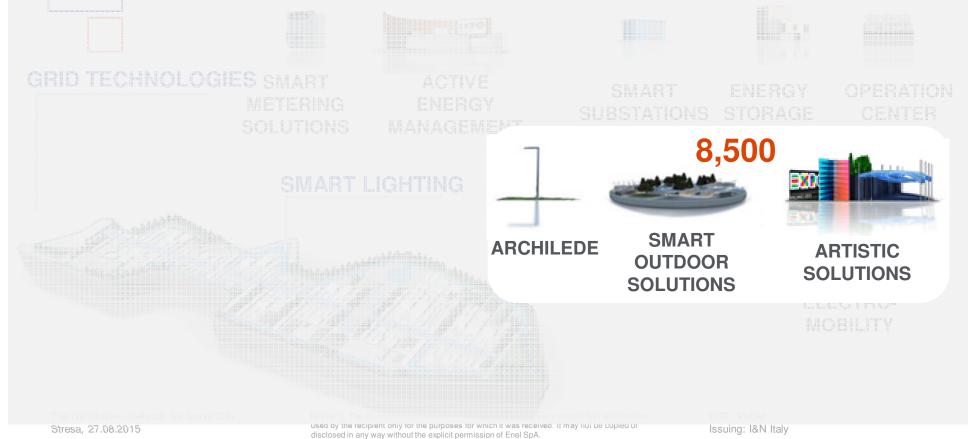
Energy Management System

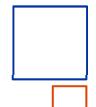












EXPO Milano 2015 Smart Lighting



Design and supply of 8500 remote controlled lighting

points

1.250
Archilede HP
(Cardo,
Decumano,
main courses,
secondary and
gates)

7.250
equipment
street
furniture
(Italia, Lake
Arena,
amphitheatre,
walkways and
other)





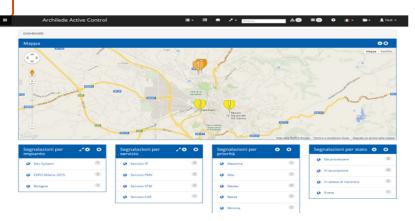
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Smart Platform for Public Lighting



Central Control System



Module for lamps



Concentrator



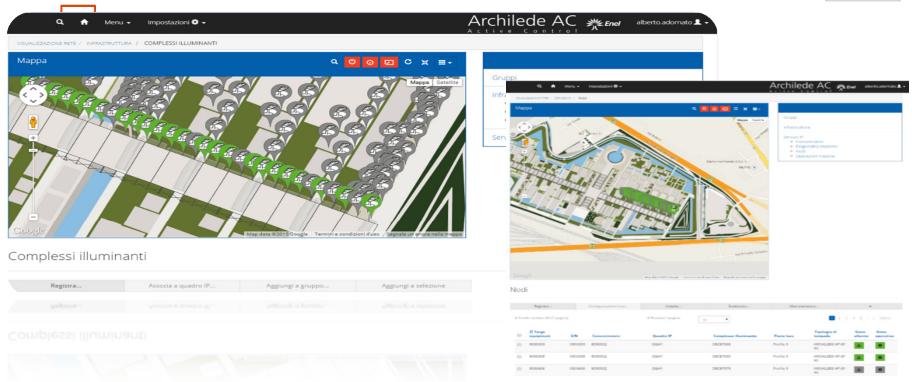
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Smart Platform for Public Lighting



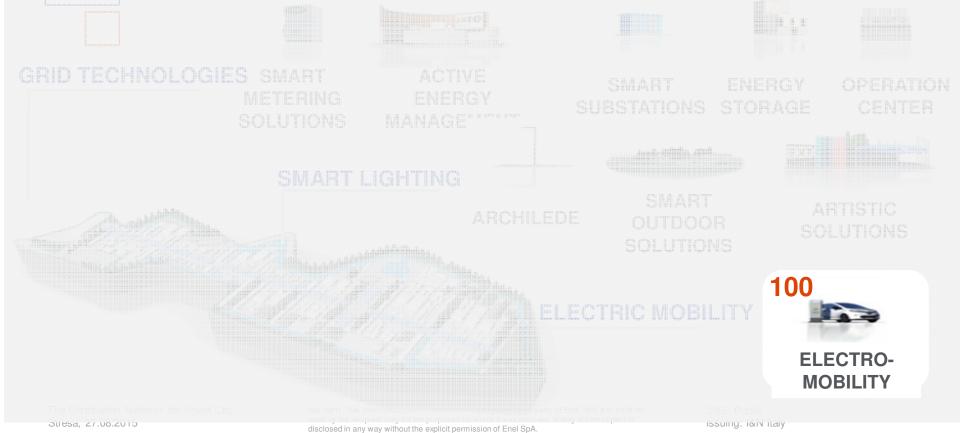


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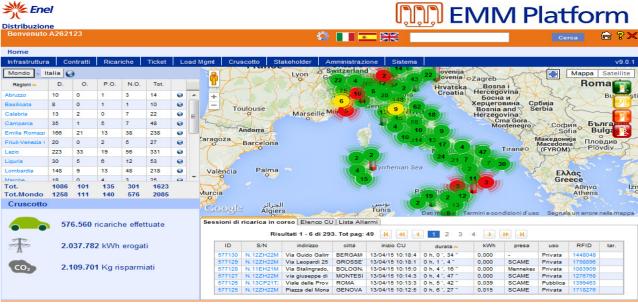




EXPO – Electric mobility EMM Platform Evolution







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