



# EUROCITIES Environment And Knowledge Society Forum meeting

13-15 March 2013, Nuremberg, Germany



Pr. **Véronique PAQUIS**

Deputy Mayor of Nice

Chair of the Nice Côte d'Azur Metropolitan  
Commission for the Environment and Research

**Deployment of a second generation of smart grid  
infrastructure**



# Nice cote d'azur NCA, First French Metropolis

Since **the 1st of January 2012**

46 municipalities

**560 000 inhabitants**

Mains activities : Transport, Housing, Urban Planning, Economic development, Roads, Water and Waste Management , Ports

3982 employees

Budget 2012 : 945M€



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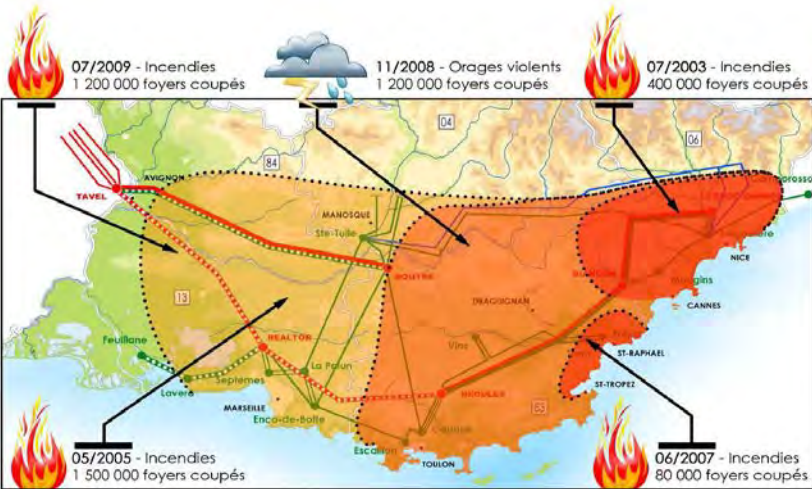
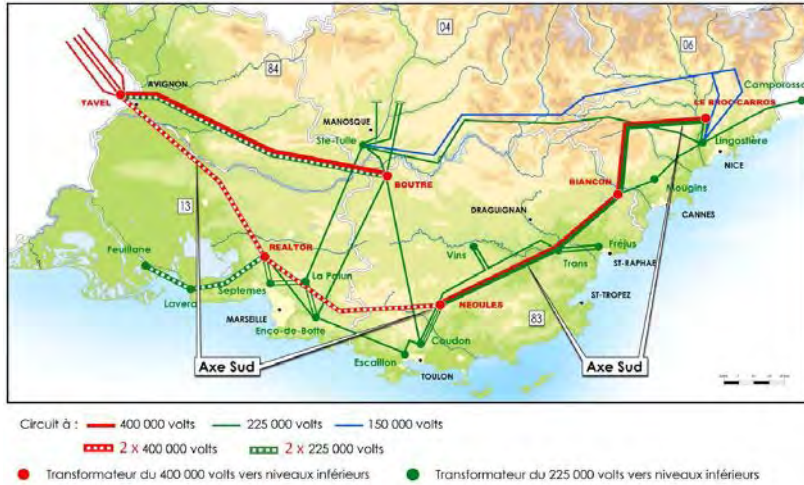


# NCA : an "electric peninsula"

An electric cover rate of **15 % only**



A power supply led by a **single very high-voltage line** of 400 000 V



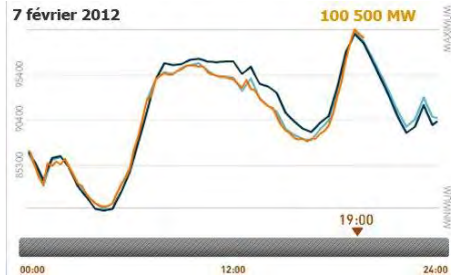
**Blackouts:** one very important in November 2008, 2 partial cuts in 2009...



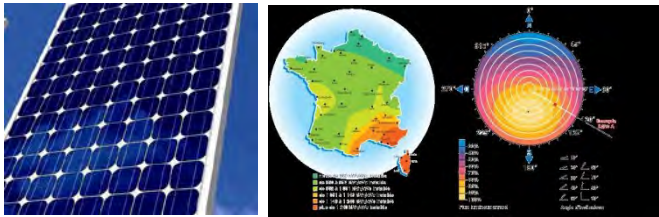
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# Smartgrids : targets for NCA



Reduction of the peaks of consumption , efficiency gains expected : **15 %**.



To enhance renewable power production capacity , in particular **Photovoltaic**

Reduction of **Greenhouse gases**



Investments in Smartgrids infrastructure lead to **creation local jobs** as well as an increased national and international attractiveness.



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# Nice Grid project 2011-2015



4 years of experimentation

32M€ budget

1500 residential, professional and collective users

Use of the smart Electric meter **LINKY**



2 to 3 MWh of photovoltaic power integrated in the demonstrator

2 MW of storage capacity

Objective of **electric autonomy**

Consortium : **EDF**, ALSTOM, DAIKIN, RSW, SAFT...



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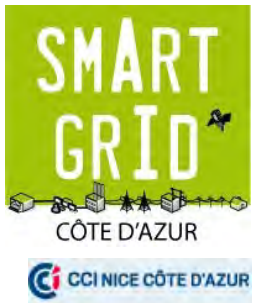


# Towards a new stage of smartgrids deployment



capitalize on the local test and demonstration projects in progress

Nicegrid but also Reflexe, Poketgrid, Ecofamilies, Cityopt, Ecoffices, Gridteams ,Premio, Ticelec..



Setting up of a working group **CONVERGENCE**  
 Drawing up of a **Smartgrid Charter**  
 Outlining **Smartgrids Specifications**  
 for urban planners and builders



Creation of a new **Eco-District**  
**"Smartgrid Ready"** :  
 Nice-Meridia



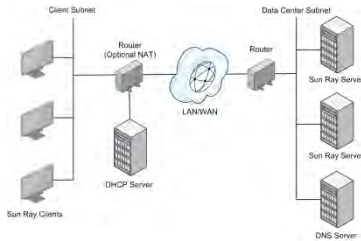
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# Main objectives of the NCA Smartgrid Charter



Specification of the **energy mix** of the district



Creation of the **shared infrastructures**



Creation of **pilot energy structure** of the district



Determination of the energy specifications for infrastructures and buildings to be **smartgrid ready**

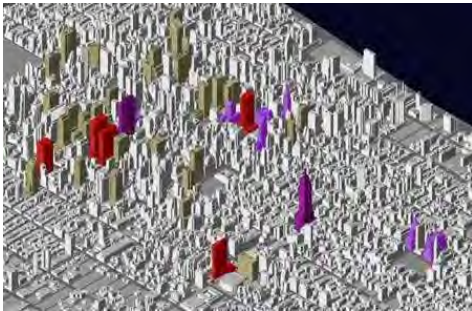


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# Conclusion

Focus in the years to come :

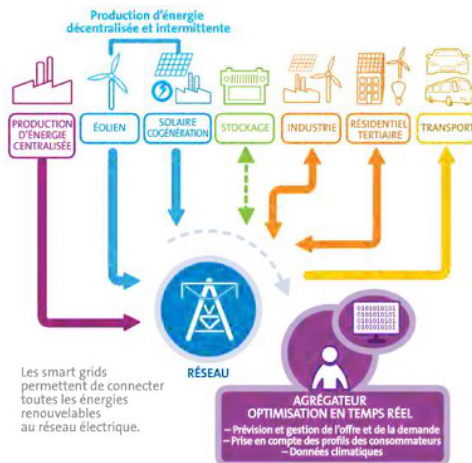


Who manages the **urban data** generated by the introduction of ICT monitoring systems in urban areas ?

What new **economic models** ?



Towards a **Local Energy Authority** ?







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METROPOLE  
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# Thank you for your attention



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