

DEBATE SERIES ON CATALONIA'S ENERGY TRANSITION



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The energy transition in Europe

13/03/2017

Barcelone

European models towards transition

France's Energy transition for green growth

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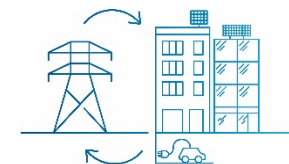
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FRANCE'S ENERGY TRANSITION FOR GREEN GROWTH



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The main objectives of the law on energy transition

- 40 % less GHG by 2030 (compared to 1990);
- Reduction of final energy consumption of 20% in 2030 and 50% in 2050 (compared to 2012);
- Increase the share of RES to 32% in final energy consumption by 2030 and 40% of the electricity production, 38% of the heat production, 15% of the final consumption of fuel and 10% of the gas production;
- Reduction of fossil energy sources of 30% by 2030 (in comparison to 2012);
- By 2025, reduction of nuclear share in the electricity mix down to 50% (from 75% today);
- Multiply by 5 RES heat in district heating and cooling networks

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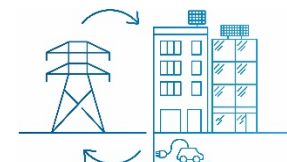
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Making buildings energy efficient

1. **Energy transition tax credits : 30% of the cost of the work, up to a limit of 8000 euros for a single person and 16000 euros for a couple**
2. **Zero interest eco-loans to finance energy refurbishment**
3. **Energy refurbishment platforms to support private individuals in their renovation work**
4. **Obligation to carry out energy refurbishment work when restoring facades, re-roofing or converting a loft**

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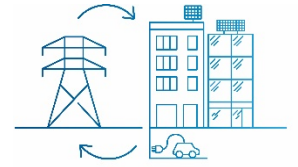
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Give priority to clean means of transport

1. **Clean travel – more economical and less polluting – and incentives to buy clean vehicles. Cumulation of the bonus buying an electric vehicle and the car conversion bonus may reach 10000 euros**
2. **Company mobility plans to promote carpooling among employees and save fuel**

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Aim for zero waste

1. **Experimental display of the lifespan of several consumer products (e.g. household appliances)**
2. **Control of planned obsolescence**
3. **Ban on disposable and non compostable plastic bags : recycling of all plastics, including food wrap**
4. **Solutions for the re-use of food waste (composting, door-to-door collection, etc.)**

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Increase the use of renewable energies

1. Possibility for citizens and local authorities to receive funding for renewable energy projects
2. Widespread use of the single permit for wind energy, biogas and hydroelectricity
3. Support for the development of 1500 biogas plants in 3 years to produce energy from agricultural waste
4. Obligatory power purchase rates will finance self-generated renewable electricity consumed by private individuals and businesses

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Combat fuel poverty

1. Electricity and gas consumption will be better managed through the installation of smart electricity meters (Linky) and gas meters (Gazpar)
2. An energy cheque is issued to lowest income households to help them pay their energy bills
3. Energy performance is now a criterion for decent accommodation
4. 30% of funding from White certificates will be dedicated to combating fuel poverty

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Financing energy transition

Citizens

The energy transition tax credit: it allows for a 30% refund on the amount of energy renovation works if works are carried out by a qualified professional “RGE” – accessible to owner-occupiers and tenants

Relaunch of the zero rate eco-loan: accessible to owners, if works carried out by a qualified professional “RGE”

Local authorities

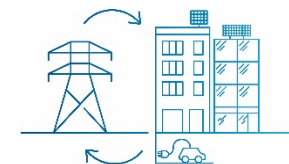
The 5 billion euros fund of the Caisse des Depots et Consignations to support key projects in the local public sector like energy renovations, positive energy buildings, clean transport and RES

Overarching action

Energy transition financing fund: this 1,5 billion euros fund sponsored by Caisse des Depots et Consignations strengthens the existing schemes such as the Heat fund and supports new projects like positive energy regions

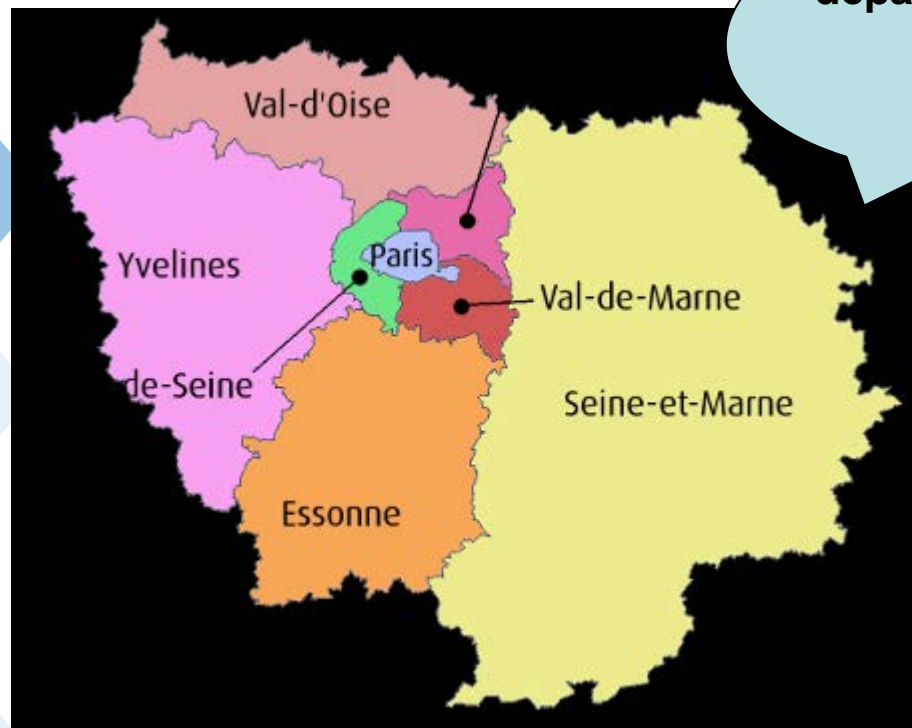
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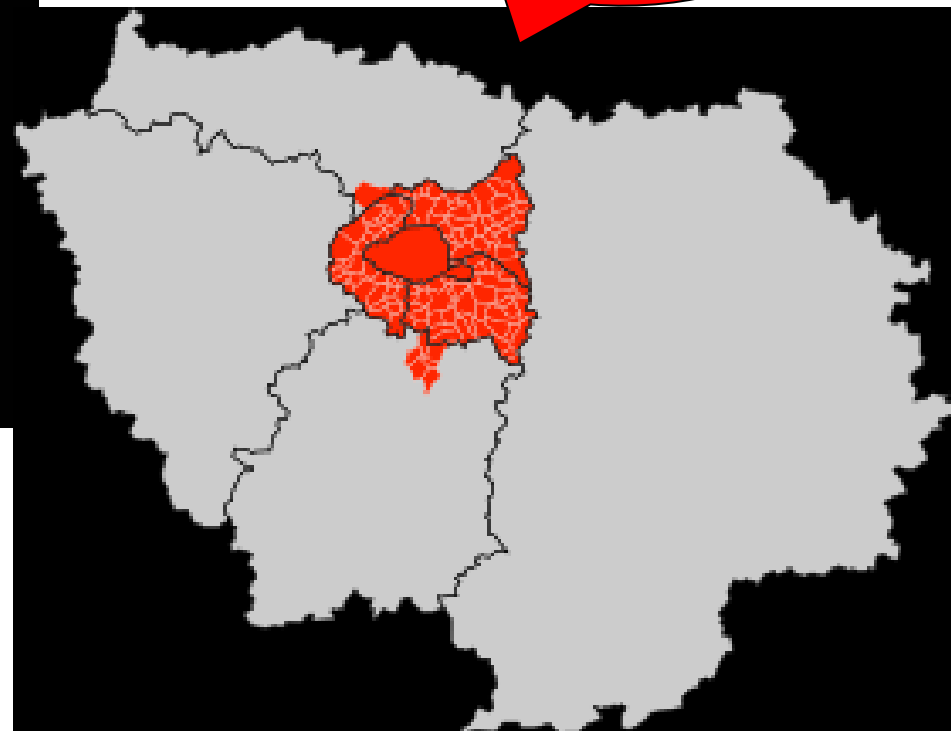
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Territorial complexity



départements

Métropole du
Grand Paris



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Energy competencies

		Region	Department	City
Energy planning	SRCAE (regional plan on climate air energy)			
	PCAET (local plan on climate air energy)			
Distribution	Public service for creation and management of district heating and cooling			
	Concession for gas and electricity distribution			
RES	RES production			
	Equity take-out in RES production companies			
Demand side management and energy efficiency	Participation to energy transition			
	Energy efficiency			
Demand side management and housing	Local platforms on energy refurbishment			
	Housing and social action			

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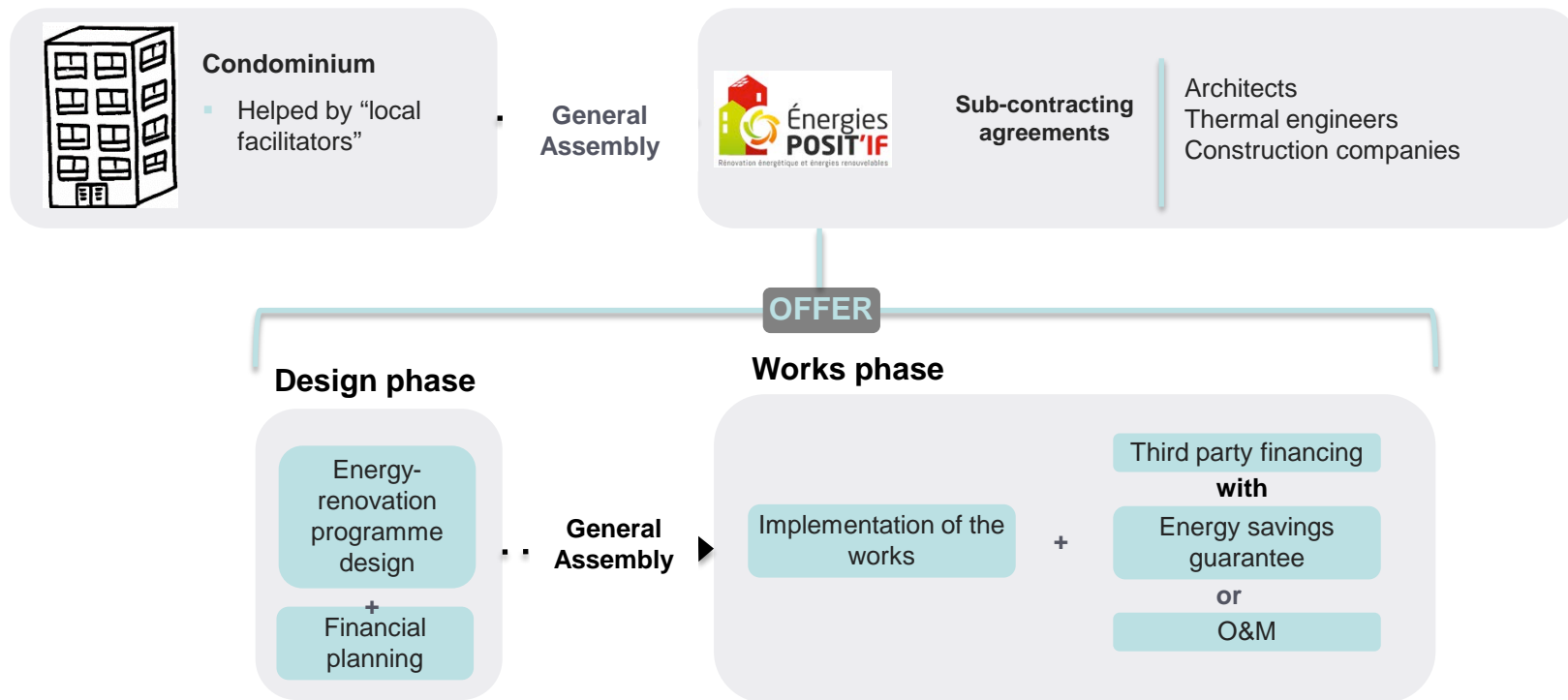


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Energy efficiency regional programme

Development of local energy refurbishment platforms in regions
Training of building professionals
Assistance to citizens (information, training)
Development of suitable financing tools
Information and training of banks
Development of third party financing (in Île-de-France example of Energies POSITIF)

Energies POSIT'IF



The process

G.A. : General Assembly
O&M : Operation and maintenance



How to finance the renovation project?

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graph LR; A[How to finance the renovation project?] --- B[Collective grants]; A --- C[Individual grants]; A --- D[Remainder]; B --- B1[Region council subsidy (Copro durable)]; B --- B2[White certificates]; C --- C1[Tax credits]; C --- C2[Direct subsidies from national / local authorities, etc.]; D --- D1[Soft loans]; D --- D2[Third-party financing];
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Collective grants

- Region council subsidy (Copro durable)
- White certificates

Individual grants

- Tax credits
- Direct subsidies from national / local authorities, etc.

Remainder

- Soft loans
- **Third-party financing**

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ARENE's action

ARENE is supporting local authorities in the implementation of their energy transition programme : support in the definition of strategies, assistance to the implementation.

Current projects :

Assistance to the design and implementation of local authorities climate air energy plan (SEAP)

RES and Energy efficiency : design of local development strategy, planning studies, training

Support to pilot projects : methodology, project management, financing tools, technical advice, ...

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Thank you for your attention
Gracias por su atención
Gràcies per la seva atenció

More information
Más información
Més informació

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