

Thematic Workshop

Energy policies assessments in Paris (France)

EXPRESS

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SLIDE 1

Regional background

• Île de France

- 7M habitants
- 124TWh buildings energy consumption

Métropole du Grand Paris

- 4M habitants
- 43TWh buildings energy consumption

• Paris

- 2M habitants
- 12,6TWh residential energy consumption



Energy consumption in Paris

• Final energy consumption in Paris, all sectors, in 2019



• Final energy consumption in Paris : 30TWh (2019)

Energy consumption in Paris

• Final energy consumption in Paris, residential sector, in 2019



 Residential sector : 40% (12.6 TWh) of final energy consumption in Paris

Energy consumption in Paris

Focus on condominiums

• ~45,000 condominiums in Paris (1.2M accommodations)



Energy sector policies: Roadmap

	« Regional area » Île-de-France	Metropolitan area	Paris
Orientation	Support densification and creation of heat network in cities	Developing heat network	Densification of Parisian heat network
	Promoting the development of -Geothermal energy -Solar energy -Aerothermal energy -Biomass	Promoting the development of -Geothermal energy -Solar energy -Biogas	Accelerate the phase-out of fossil fuels and aim for 100% renewable energies consumption in 2050
	Achieving "zero net emissions" by 2050		

Energy sector policies: Roadmap

	« Regional area » Île-de-France	Metropolitan area	Paris
Objectives	Renewable energy annual production : between 32Twh to 38TWh in 2040 (6.5TWh in 2022)	Renewable energy annual production : 15TWh in 2030 (5TWh in 2020)	 All public facilities to be fossil fuel-free by 2040 Develop 6,000 micro-installations for renewable energy production on public buildings Massive increase in solar production on Parisian residential buildings 100,000 more accommodations
			2030

Energy sector policies: Roadmap

	« Regional area » Île-de-France	Metropolitan area	Paris
Policies actions	Support cities and territories to achieve plans	Coordinate development initiatives : -geothermal energy	Simplify access to the heating network
	Subsiding some sector as residentials sector to develop solar energy and geothermal energy	 -thermal and photovoltaic solar energy -heating networks Helping to develop energy sectors 	Implement a public policy to massively increase the installation of solar panels (photovoltaic and thermal)
		Support local stakeholders to inform and sensibilizing habitants about renewable energy production	Link these public policies to energy retrofitting policies

- Regional grant program «Fond Chaleur »
 - Geothermal feasibility studies
 - Geothermal heat production infrastructures
 - Biomass central heat production
 - The French Agency for Ecological Transition care out this program at regional level



https://fondschaleur.ademe.fr/

Individual or collective electricity self-consumption

- A condominium can engage in collective self-consumption in addition to the total resale of electricity
 - resale at €0.1208/kWh
 - average electricity cost €0.22/kWh
- Several shapes are possible for condominiums
- Paris Climate Agency is following an example of several condominiums engaged in a collective self-consumption project

- Prioritization of heating network
 - Creation of a priority development zone in 2022
 - A new connection tariff is created: more affordable and accessible





- National grant program for heat production equipment
 - « Ma Prime Rénov » national grant program for condominiums
 - Heat pump
 - New heat system production
 - Connection to a heat network (indirect subsidy after achieving 35% energy savings)



- Subsidy programme for the installation of solar panels in condominiums in Paris
 - Creating a new aid programme for condominiums in Paris
 - Subsidies for feasibility studies
 - Subsidies for solar panel installations
 - Programme currently being defined with the City of Paris



• Local program :

- subsidy to carry out a global technical diagnosis
- grant for a design and project management study (energy retrofitting project in condominiums)
- Studies which can develop the opportunity and design of
 - Renewable heat production
 - Renewable electricity production



SWOT

Strength	Weakness	
 Ambitious public policies, and support from local authorities A strong Parisian one-stop-shop for condominium retrofitting Massive heat network already deployed in Paris Access to data 	 Patrimonial aspects and high density of Paris Technologies : available but not democratized Knowledge of the public Majority of condominium in Paris Multiplicity of public actors and policy scales : Paris, metropolitan area, regional area Biomass supply inside Paris 	
Opportunity	Threats	
 Inhabitants aware of environmental issues Energy prices increassing High geothermal potential in the regional area A increasing number of public grants and support EXPRESS : to define an extension of the retrofitting one-stop-shop 	 Financial grants unstable Stops from state architects condidering patrimonial aspects (mainly on roofs) Capacity of the market to follow the demand Capacity of the demand to find a suitable compagny to implement the systems To cut the will of condominum to retrofitt 	

Orientations and developments

- Develop new policies to accelerate solar panels installation
- Adopt a new one stop shop dedicated to renewable energy production





SLIDE 18

Thank you!

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