

FRANCE

1. CONTEXT OF THE BUILT ENVIRONMENT

Urban population

Total population	Functional Urban Area population*	Share of urban population	Average urban growth
67.022 million (2020)	38.359 million (2020)	57% (2020)	1% (2015-2020)

*Data source: European Commission (2023), FUA and eFUA methodology: OECD/European Commission (2020)¹

Building data

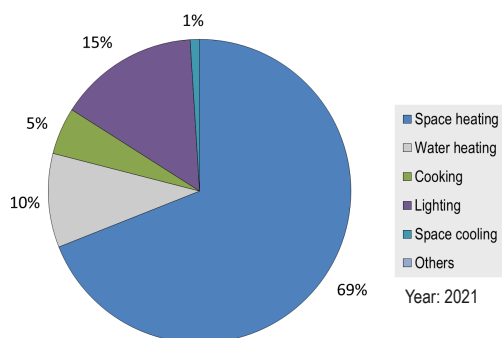
	Building stock	Built before 1980	Annual construction	Annual construction rate
Residential	37,818 thousand dwellings (2023)	59.3%	369.2 thousand dwellings (2022)	1%
Non-residential	1,300 million m ²		12 million m ² (Average 2017-2020)	1%

Energy & emissions data

Residential buildings**	1990	2021	+/- rate	Non-residential buildings	2022
Final energy consumption (PJ/year)	1594	1633	2%	Final energy consumption (PJ/year)	952
	1990	2020	+/- rate		2022
GHG emissions (MtCO ₂ /year)	59.8	40.3	-32.6%	GHG emissions (MtCO ₂ /year)	23.9

**Data source: IEA Countries & Regions²

Energy consumption by end-use (Residential)



Heating degree days***

1,576.1

Degree (°C) Days (2020)

Reference degree day: 16 degree (°C)

Cooling degree days***

111.5

Degree (°C) Days (2020)

Reference degree day: 21 degree (°C)

***Data source: IEA Weather, Climate and Energy Tracker³

¹ <http://data.europa.eu/89h/2ff68a52-5b5b-4a22-8f40-c41da8332cfe>, <https://doi.org/10.1787/d58cb34d-en>

² <https://www.iea.org/countries>

³ <https://www.iea.org/data-and-statistics/data-tools/weather-climate-and-energy-tracker>

2. GOVERNANCE AND CAPACITY BUILDING

Who does what

Ministries/Agencies responsible for BEE (building energy efficiency) and related policies

A Ministry of Ecological Transition and Territorial Cohesion (DHUP)	B Ministry of Energy Transition (DGEC)	C Ecological Transition Agency (ADEME)	D Ministry of Economy, Finance, and National Sovereignty (DIE)	E
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Ministries/Agencies responsible for each policy area

Building code	Governmental buildings	Housing policy in general	Financial incentives for BEE	Behaviour change for BEE
A B C D E	A B C D E	A B C D E	A B C D E	A B C D E
BEE standard	Act/law for BEE regulation	Whole life carbon	Energy policy in general	NDC
A B C D E	A B C D E	A B C D E	A B C D E	A B C D E

Local governments' authority to customise BEE standards

—	Local governments can customise national standards.
—	Local governments cannot adjust national standards, but the standards differ across regions depending on the local climate.
✓	Local governments cannot adjust national standards. All building codes, standards or requirements are uniform across the entire country.
—	Neighbourhood level approach/planning
✓	The national government is tracking progress on decarbonisation efforts at the local level
—	More ambitious policy instrument by local governments

Capacity building

Government funding programmes to train/enhance skills for SMEs

Designing for ZEB	✓	Insulation	✓
Calculation for energy performance of buildings	✓	Installation of energy efficient equipment	✓
Calculation for life cycle CO2 of buildings	✓	Other	—

Actions undertaken by the national government to support local governments for BEE policy implementation

Co-ordinating regional networks for knowledge exchange and support	<i>Priority</i> ✓
Providing funding for training	✓
Distributing toolkits and guidelines	✓
Developing online platforms to share best practices	✓
Hosting annual conferences focused on BEE policy implementation	✓
Offering grants to hire consultants	<i>Priority</i> ✓
Collaborating with research institutes offering specialised courses on BEE practices	-
Creating incentive programmes to reward local governments	-
Supporting the Implementation of local regulations	-
Establishing mentorship programmes	-
Other	-

3. GOALS AND POLICY FOCUS

Policy areas covered in the goals and existing commitments

	Zero emission for new buildings	Zero emission for existing buildings	Renewable energy for new buildings	Renewable energy for existing buildings	Whole-life cycle carbon reduction
NDC	-	✓	✓	✓	✓
LT-LEDS	-	-	-	-	-
Ministerial plan	-	-	-	-	-

Quantitative targets included in long-term goals

Fossil fuel-free buildings	No more fossil energy consumed on-site.	District heating/cooling	39.5 TWh of heat produced from renewable and recovery energies (RRE) in 2030.
Insulation		Heat pumps	1 million heat pumps manufactured and installed in France by 2030.
Rooftop PVs	Non-residential buildings (>500m ²) must incorporate renewable energy production by 2028.	Solar heating of water	
Other renewable energy		Other	Reduction of 60% in final energy consumption in non-residential buildings by 2050 (>1000 m ²).

Policy focus for decarbonising buildings (Top 3)

Current focus

Passive design to reduce heating demand	<input checked="" type="checkbox"/>
Energy efficiency on heating	<input checked="" type="checkbox"/>
Passive design to reduce cooling demand	<input type="checkbox"/>
Energy efficiency on cooling	<input type="checkbox"/>
Switching energy to sustainable energy	<input checked="" type="checkbox"/>
Renewable energy	<input type="checkbox"/>
Embodied carbon	<input type="checkbox"/>
Circularity of building materials	<input type="checkbox"/>



Future priorities

Passive design to reduce heating demand	<input type="checkbox"/>
Energy efficiency on heating	<input type="checkbox"/>
Passive design to reduce cooling demand	<input checked="" type="checkbox"/>
Energy efficiency on cooling	<input type="checkbox"/>
Switching energy to sustainable energy	<input type="checkbox"/>
Renewable energy	<input type="checkbox"/>
Embodied carbon	<input checked="" type="checkbox"/>
Circularity of building materials	<input checked="" type="checkbox"/>

Energy poverty

Strategies to reduce poverty and inequality via decarbonising buildings

Stronger financial support for decarbonising public housing for low-income people	<input type="checkbox"/>
Financial support to buy zero-energy/emission homes	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Financial support to renovate their homes to zero-energy/emission	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
Allowing partial retrofits to ease financial burden on upfront cost	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
Provide energy efficient appliances (e.g. LED)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Energy bill coupon	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Energy coach/consultation	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

Note: Policies targeting specific households Low-income Elderly Households with more than 3 children Other

4. DEVELOPMENT OF POLICY INSTRUMENTS

Standards and regulations for decarbonising buildings

Building codes	National level	<input checked="" type="checkbox"/>
	State level	<input type="checkbox"/>
	Local level	<input type="checkbox"/>

Type of buildings covered by the mandatory energy efficiency code

Residential buildings		
New	<input checked="" type="checkbox"/> All	<input type="checkbox"/> Only large units
Renovated	<input type="checkbox"/> All	<input checked="" type="checkbox"/> Only large units
Non-residential buildings		
New	<input checked="" type="checkbox"/> All	<input type="checkbox"/> Only large units
Renovated	<input type="checkbox"/> All	<input checked="" type="checkbox"/> Only large units

Elements of building codes (new buildings)

Insulation/heat transmission coefficient	<input checked="" type="checkbox"/>
Primary energy consumption	<input checked="" type="checkbox"/>
Primary fossil-fuel energy consumption	<input checked="" type="checkbox"/>
Energy efficiency of equipment	<input checked="" type="checkbox"/>
Operational carbon reduction	<input checked="" type="checkbox"/>
Whole life cycle carbon	<input checked="" type="checkbox"/>
Comprehensive green building assessment	<input type="checkbox"/>
Other	<input type="checkbox"/>

Stricter standards for public buildings than private buildings

For new construction For renovation

	Public buildings	Public housing
Energy efficiency	– –	– –
Zero energy/emission	– –	– –
Renewable energy	– –	– –
Embodied carbon/life cycle	– –	– –
Locally sourced & recycled materials	– –	– –

Certificates/labeling programme for built environment

Types of certificates/programme

Energy Performance Certificate (EPC)	<input checked="" type="checkbox"/>
Energy labelling on passive house	<input type="checkbox"/>
Energy labelling on annual energy consumption	<input checked="" type="checkbox"/>
Comprehensive built environment certification	<input type="checkbox"/>
Labeling for whole life carbon emissions	<input checked="" type="checkbox"/>

Target for Mandatory EPC

New buildings (residential)	<input checked="" type="checkbox"/>
New buildings (non-residential)	<input type="checkbox"/>
Existing buildings for renovation	<input type="checkbox"/>
Existing buildings for sales/rent	<input checked="" type="checkbox"/>

Standardised calculation methods for embodied carbon/LCA


Database of CFP/EPD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Governmental	<input type="checkbox"/> Non-governmental
Grant for using the following materials	<input checked="" type="checkbox"/>	<input type="checkbox"/> Low-carbon	<input checked="" type="checkbox"/> Bio-based <input type="checkbox"/> Reused
Policy tools for reusing building materials	<input checked="" type="checkbox"/>		
Mandatory declaration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Public	<input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Non-residential
Limit value on CO2 emissions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Public	<input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Non-residential

Minimum energy performance standards (MEPS) regulation for existing buildings


<input type="checkbox"/> All buildings	<input checked="" type="checkbox"/> Residential (rent)	<input type="checkbox"/> Residential (sale)
<input checked="" type="checkbox"/> Office (rent/sale)	<input checked="" type="checkbox"/> Public buildings	<input type="checkbox"/> Other

Climate resilience

 Extreme heat adaptation measures implemented in the building sector

Strategic orientation of main building facades	<input type="checkbox"/>	<input type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Light coloured and reflective materials	<input checked="" type="checkbox"/>	<input type="checkbox"/> Regulations	<input checked="" type="checkbox"/> Financial incentives
Green roof	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Green facades	<input type="checkbox"/>	<input type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Other	<input checked="" type="checkbox"/>		

 Floods/storms adaptation measures implemented in the building sector

Lowest liveable floor above ground level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Roof drainage system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Hip-roof	<input type="checkbox"/>	<input type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Hurricane straps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Impact-resistant glass	<input type="checkbox"/>	<input type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Backup generators	<input type="checkbox"/>	<input type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives
Microgrids	<input type="checkbox"/>	<input type="checkbox"/> Regulations	<input type="checkbox"/> Financial incentives

Publicly available geographic database with climate risk information

Flood risk	<input checked="" type="checkbox"/>
Heat wave	<input checked="" type="checkbox"/>
Storm	<input checked="" type="checkbox"/>
Wild fire	<input type="checkbox"/>
Other	<input type="checkbox"/>

Building certificate system on climate resilience

Resilience to flood risk	<input type="checkbox"/>
Resilience to heat	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

This survey is designed for national governments.