GREEN ENERGY
EXPORT DAY 2025

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WORKSHOP
BIOMASS AND DISTRICT HEATING FRANCE

AGENDA

Biomass and district heating in France
- Laura Cassowitz, Sector Lead Energy, Embassy of Denmark in France

Biomass and biogas solutions for France
- Claus Mikael Larsen, Head of Project Sales, Linka Energy

District heating FR-DK cooperation
- Morten Duedahl, Business Development Manager, DBDH (Danish Board of District Heating)
- Laura Cassowitz, Sector Lead Energy, Embassy of Denmark in France

Interactive workshop with discussions and questions

Moderator
- Christina Graaskov Ravn, Senior Advisor, Bioenergy Denmark/DI Energy

Danish Energy Agency
MINISTRY OF FOREIGN AFFAIRS OF DENMARK
STATE OF GREEN
GREEN POWER DENMARK
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The Trade Council

Biomass and district heating in France

27.08.2025

Decarbonizing heat: an important step to achieve carbon neutrality by 2050 in France

45%

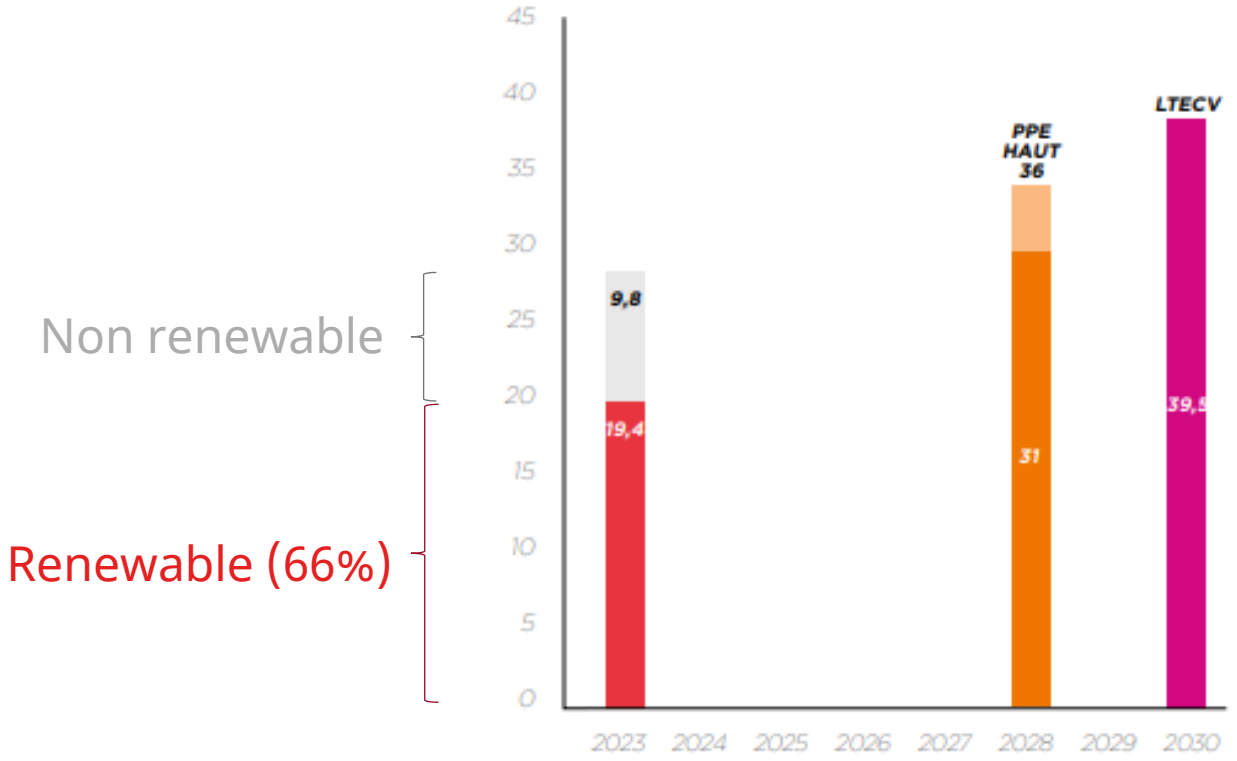
of final energy consumption is **heat**

1400 TWh/year

28%

of this heat is produced with **renewables**

Strong ambitions to decarbonise and develop district heating



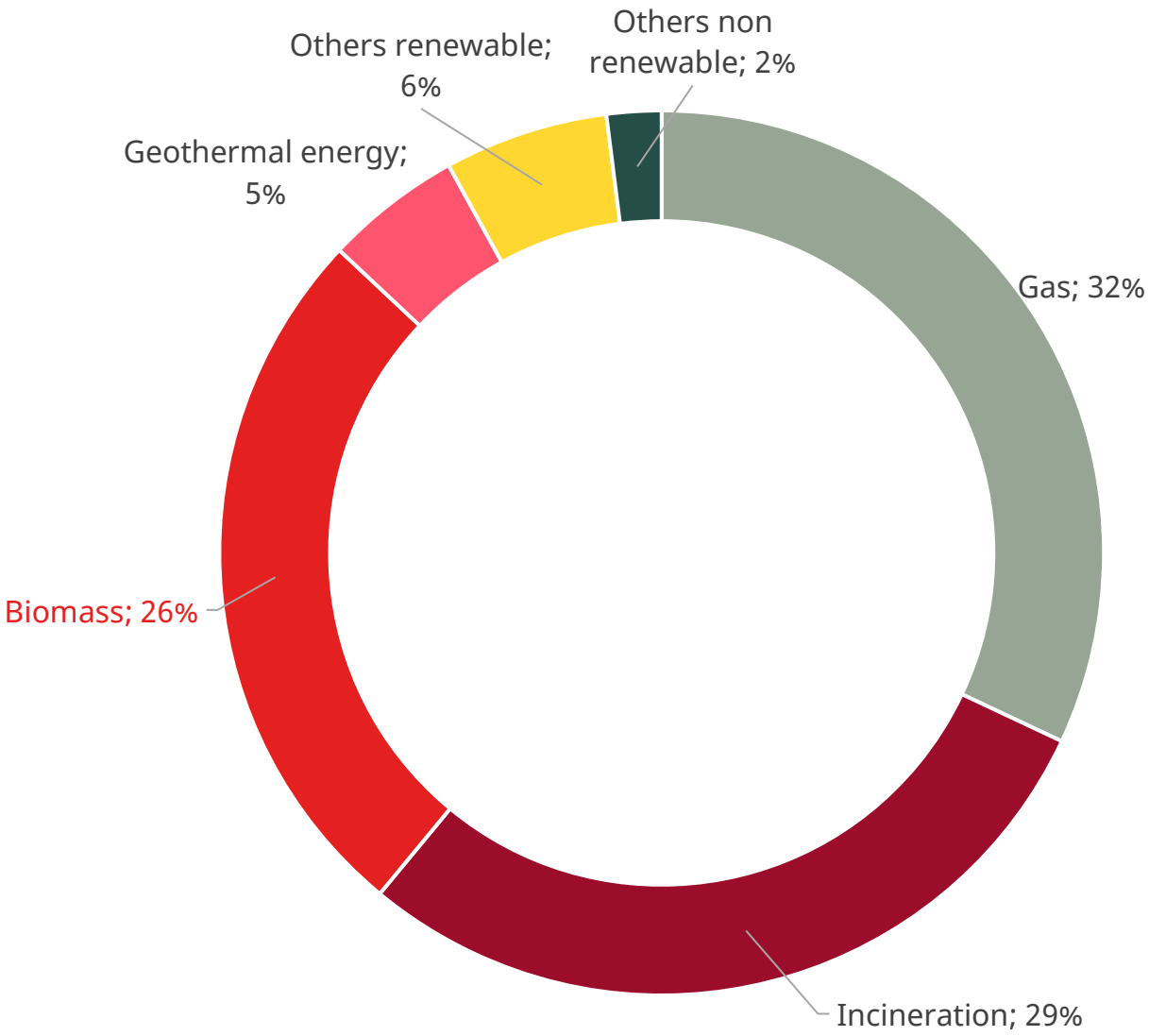
Heat delivered with district heating (TWh)

District heating networks today and future development

- Today: 1000 networks / 7500 km / 50’000 buildings
- To achieve 2030 targets
  - > 1300 new networks
  - 260 extensions
  - Decarbonisation of existing networks

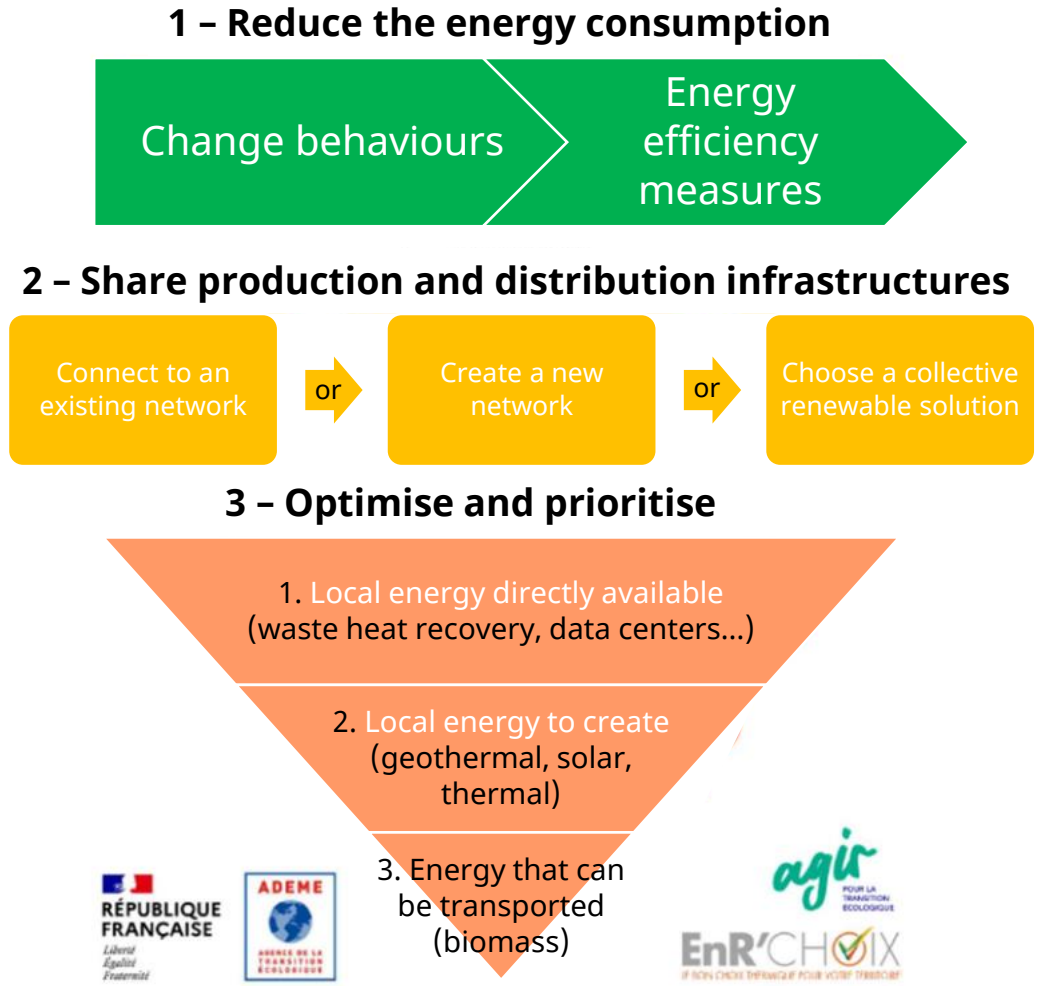
https://france-chaleur-urbaine.beta.gouv.fr/carte

Biomass is key in the District heating energy mix today

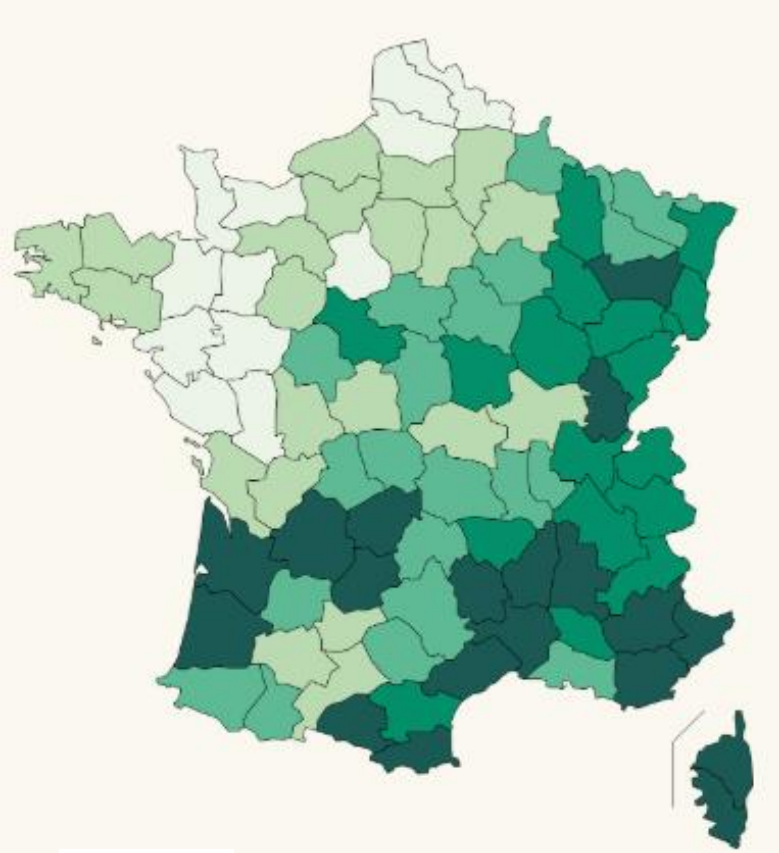


Follow the moneY

- ”Heat Fund” managed by ADEME
  - Financing feasibility studies (up to 60%) and investments (up to 45%)
  - 820 M€ in 2024, 40% dedicated to biomass boilers
- Subsidies are subjet to merit order



Growth of our large biomass source is slowing down…



Surface covered with forests in French departments
Source: IGN 2023

- 1/3 of France is covered with forests today
- 3rd largest forest in Europe

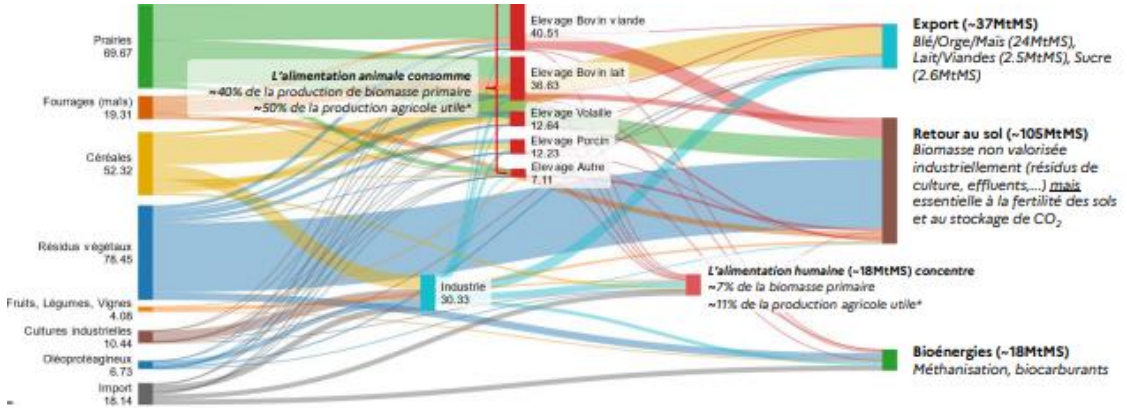
But

- Growth slowed down over the past 10 years
- Increase of future needs (carbon sink, industry, energy)

… but we have other biomass sources

- Other sources also subject to other needs:
  - Agriculture,
  - Wood not coming from the forests (hedgerows, gardens),
  - Barks and residues from sawmills and industry,
  - End of life wood, waste wood.

- RDF (refused-derived fuel)



⇒ **Need to coordinate the different sectors**

⇒ **Need to find the right balance between resources and needs**

Important future steps to follow closely in France in the coming weeks

Multiannual energy plan	Budget	Biomass policy
• ”PPE 3” • Expected in Fall • Regional versions	• Heat fund 2026	• New scientific working group • Coordination between the different sectors

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Thank you ! Any questions?

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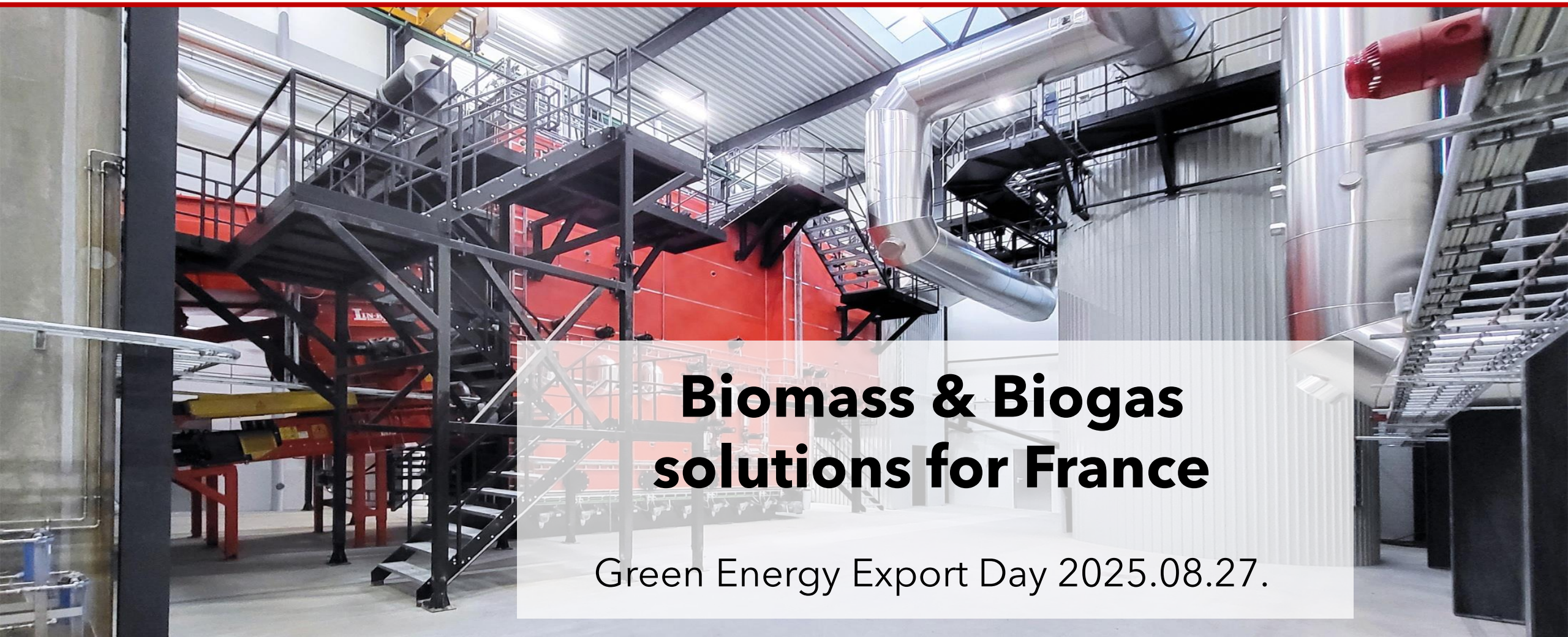
LIN-KA® ENERGY



Biomass & Biogas solutions for France

Green Energy Export Day 2025.08.27.

Linka Energy

Delivering sustainable energy solutions

Biomass & Biogas solutions for France

- Proven solutions for hot water, steam, and CHP from 250 kW to 30 MW.
- *Technology:* Efficient, flexible, multi-fuel (straw, agropellets, wood pellets, agricultural residues).
- *Strategic growth market:* France – opportunities in industry and district heating.
- *Track record:* delivering reliable, high-performance energy solutions.
- *Teaser:* Aarhus Protein (Denmark) – 5 MW steam boiler, multi-fuel, 90% efficiency, sustainable food production.

Goal: Partnerships for France's 2030 and 2050 decarbonization targets.

SUSTAINABLE DEVELOPMENT GOALS

LIN-KA ENERGY a part of LINKA group

Introduction of Linka Energy

Linka Energy – Biomass expertise since 1978

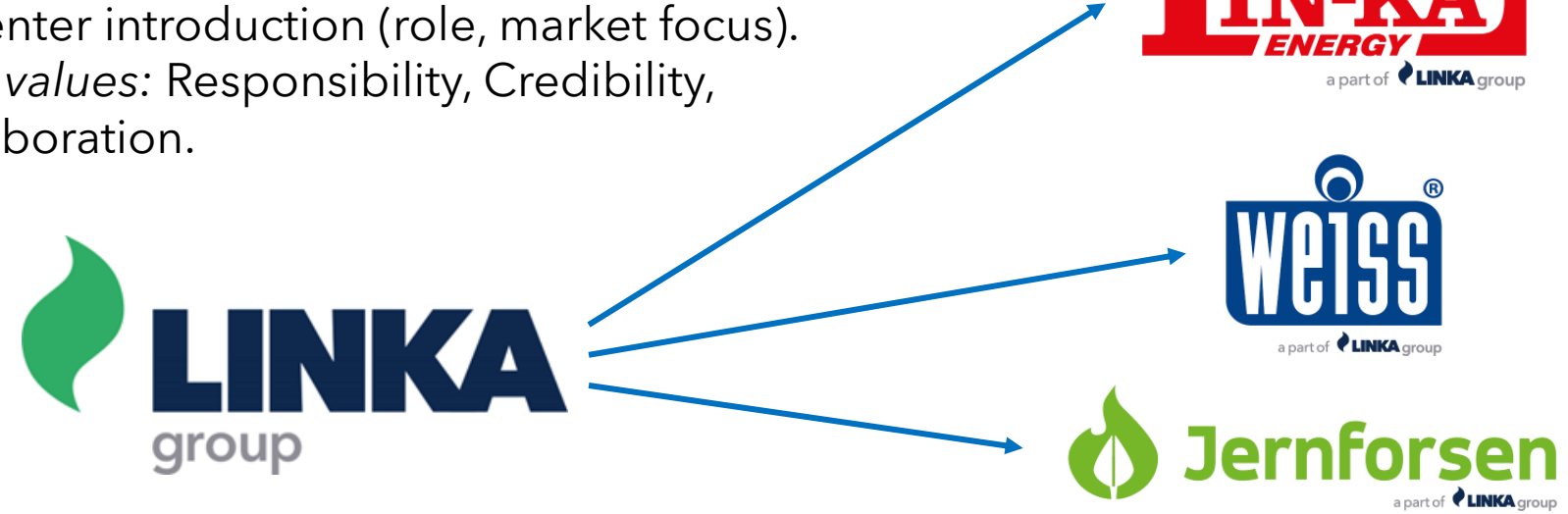
- Established 1978, Denmark; specialist in biomass boiler systems.
- 3,500+ installations worldwide.
- Annual delivery of 50–80 tailor-made systems.
- *Group expertise:* wet biomass, waste wood combustion.
- ISO 9001 & 14001 certified.
- Presenter introduction (role, market focus).
- *Core values:* Responsibility, Credibility, Collaboration.

AAA

Dun & Bradstreet Credit rating 2025

Quality Management System FORCE Certification ISO 9001

Environmental Management System FORCE Certification ISO 14001



The French market

Biomass & Biogas – Targets & support

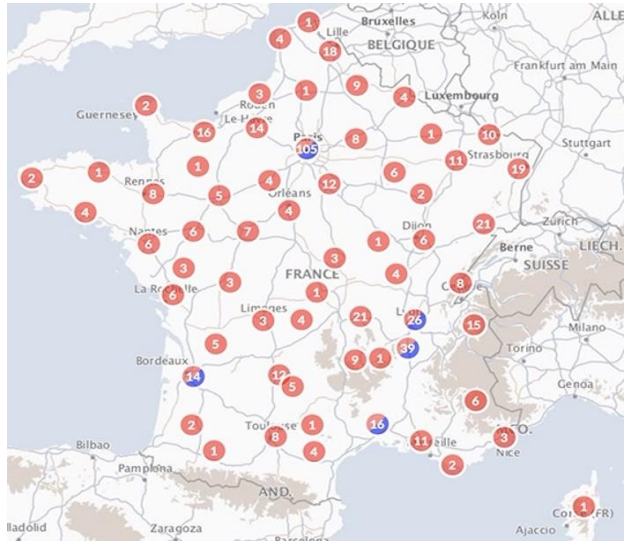
France is strongly supporting renewable heating through ambitious targets and funding mechanisms:

- ***38% renewable heating by 2030***
  (heating = 45% of total energy use).

- ***Heat Fund 2024:***
  €820M (up to 60% funding).

- ***District heating:***
  ~8% share → goal: double by 2030 Biomass central in decarbonization strategy; strong policy support.

- ***Biogas:***
  PPE3 target 50 TWh/year by 2030 (≈15% of national gas demand).



The French market

Biomass & Biogas – Market characteristics

The French biomass and biogas market is defined by clear targets and a mature regulatory framework:

- ***Biomass:***
  Strong support through the Heat Fund – cornerstone of district heating expansion.

- ***Biogas PPE3 target:***
  50 TWh/year by 2030 (≈15% of national gas demand) PPE3 = France's multi-year energy plan defining renewable targets

- ***Regulatory shift:***
  From subsidies → obligation-based support

- ***Market****:*
  Large utility concessions + long procurement cycles.

Linka Energy's solutions

Linka's technical solutions for the French market

- *Solutions:* 250 kW to 30 MW; hot water, high-pressure hot water, steam, CHP.
- *Multi-fuel:* straw, agropellets, wood chips, waste wood.
- Patented combustion for high efficiency, low emissions.
- Compliance with EU MCPD + French emission limits.
- Automated cleaning, ash handling, and fallback configurations.
- *Reference:* large straw/pellet boiler system with full automation.

0,25-5MW LINKA H

Developed for straw and other Agro-biomass

Hot water, High pressure hot water or steam up to 16 bar

5-15MW L-GVB

Developed for straw and wood-based fuels

Developed for district heating

3-20MW JF

Developed for humid fuels – wood based

Developed for sawmill industry

4-30MW IED

Waste and waste-based fuel boiler

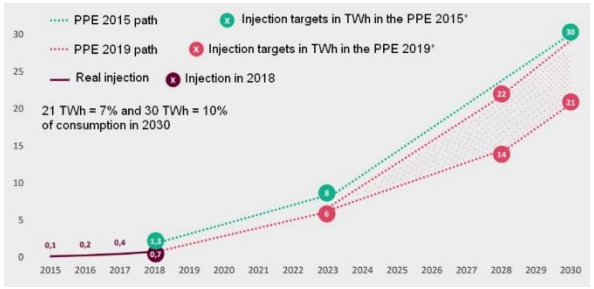
Difficult fuels with low calorific values and waste compliant emission levels

Proven international experience
– now active in France

- ***Aarhus Protein, Denmark – 5 MW steam***
  boiler for plant-based protein production (relevance: French agro/food sector)

- ***Large straw/pellet boiler plants with full automation***
  (relevance: French agricultural regions)

- ***Biogas integration in Denmark***
  (relevance: France's PPE3 target: 50 TWh/year by 2030)



First project in France secured
– further projects with strong potential.

Conclusion

Supporting France's energy transition

- Long-term commitment to the French market.
- Supporting France's 2030/2050 decarbonization targets.
- Opportunities: district heating, biogas, large-scale biomass.
- Proven international experience – now active in France.
- Working collaboratively across the sector.

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District heating
FR- DK Cooperation

27.08.2025

GtoG Cooperation

Danish solutions are positively seen in France

- Denmark was the country of honour at the European Conference on Energy Transition in Strasbourg, 24-26 June 2025

- *This is the last time we invite the Danes!*
- *Next to them, we look like amateurs!*

District heating alliance france

- 6 members

- Key principles
  - Collaborative approach
  - Exchange of contacts
  - Flexible
  - The program is discussed with all the members
  - Regular meeting to exchange information and prepare the different events

District heating alliance France 2025

- European Conference on Energy Transition in Strasbourg
- Visit of **Fraicheur de Paris**
- Workshops in **Angers**
- Innovation Day with **Idex**
- Joint export promotion: **A 2-day delegation visit of French cities (potential clients) to Denmark**

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Thank you ! Any questions?

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NOW:
CLOSING PLENARY: EUROPEAN ENERGY TRANSITION (ROOM: SALEN)

GREEN ENERGY EXPORT DAY 2025 PROGRAMME

		Room: 17				*Room: House of Green*
08.30	**Workshop #0**	**Korea / Japan** Energy Governance Part.				**Australia** Country session
09.00	**Market Place Opens**					
09.30	**Opening Plenary: Energy Exports in a New Global Landscape** (Room: Salen)					
10.15	**Market Place – Quick coffee**					
		Room: Salen	*Room: 13+15*	*Room: 1+3*	*Room: 7+9*	*Room: House of Green*
10.30	**Workshop #1**	**Wind Energy** State of the World	**District Energy** Market View Europe	**Energy Efficiency** Poland	**Green Hydrogen** Spain	**Ukraine I** Green Power
11.15	**Market Place – Coffee**					
11.45	**Workshop #2**	**Wind Energy** Developers' Perspective	**District Energy** Germany	**Energy Efficiency** France / buildings	**Green Hydrogen** Technology Export	**Ukraine II** Green Tenders
12.30	**Market Place - Lunch**					
13.15	**Workshop #3**	**Wind Energy** Supply Chain Impacts	**Biomass and DH** France	**Energy Efficiency** Germany / digital	**CCUS** Global and Germany	**Brazil / Colombia** Country session
14.00	**Closing Plenary: European Energy Transition** (Room: Salen)					
14.30	**Reception at Top Terrace**			**Why Vietnam** Brief country session		

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