



French Energy Day 2023:

by MONTEL Group

Paris – 5 October 2023

FRANCE RENOUVELABLES

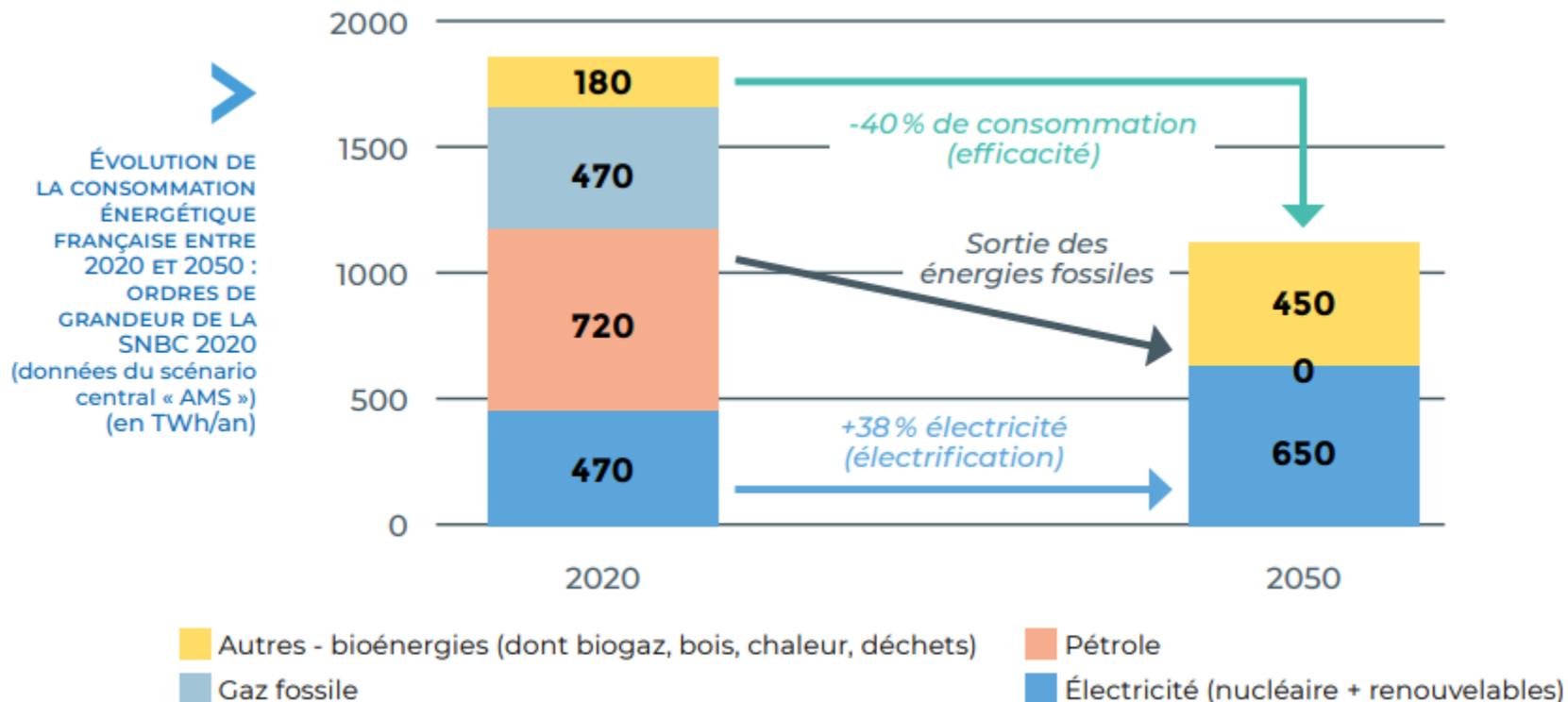
Systeme électrique pilotable

- **France Energie Eolienne (FEE) represents the French wind energy sector**
 - Trade association founded in 1996, based in Paris and French regions, also active at the European level
 - 19 board members (including the President: Anne-Catherine de Tourtier), a secretariat of 15 full-time employees
 - 12 commissions : **Offshore**, Industry, O&M, Economy, Laws & Regulation, Communication...
 - 7 regional representations
 - **A professional network of 350 members in September 2023;**
 - FEE members built more 90% of the wind turbines in France and operate more than 85% of them

- **On 19 September 2023, France Energie Eolienne (FEE) becomes France Renewelables**
 - The trade association that promotes, via a systemic approach focused on wind energy, the development of industrial electrical renewables and associated system solutions, facilitating a high share and a good using of the production coming from industrial electrical renewables »



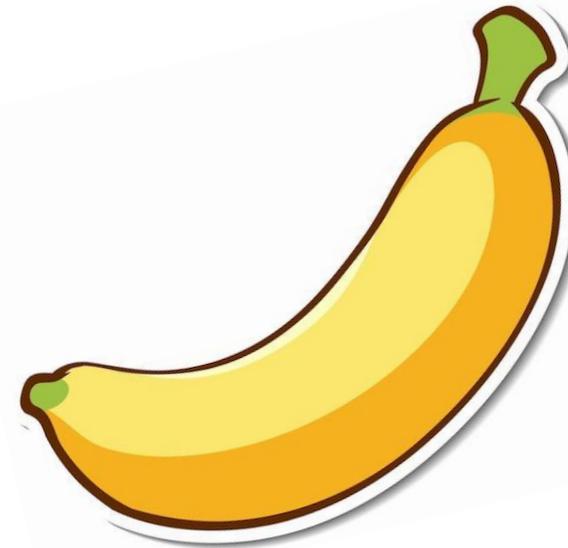
Biggest stake and challenge of the French energy transition



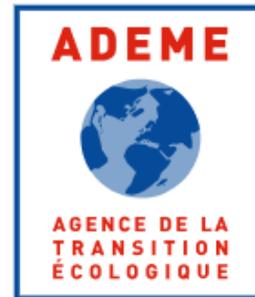
- Most of the people ignore that **2/3 of** our energy mix is based on **fossil fuels**;
- **Wind & solar energies** are the best ways to decarbonize the energy by 2035-2040 (see the *Bilan prévisionnel 2035* by RTE);
- **Renewables vs nuclear** is NOT the topic.

NIMBY VS

« Not In My BackYard »



« Build Absolutely Nothing
Anywhere Near Anything »



9th ADEME's Barometer: attitudes of French people towards the quality of air and energy, December 2022

- **73% of the French** approve the renewables to ensure France's energy independency
- A preference for **solar PV and hydroelectricity**

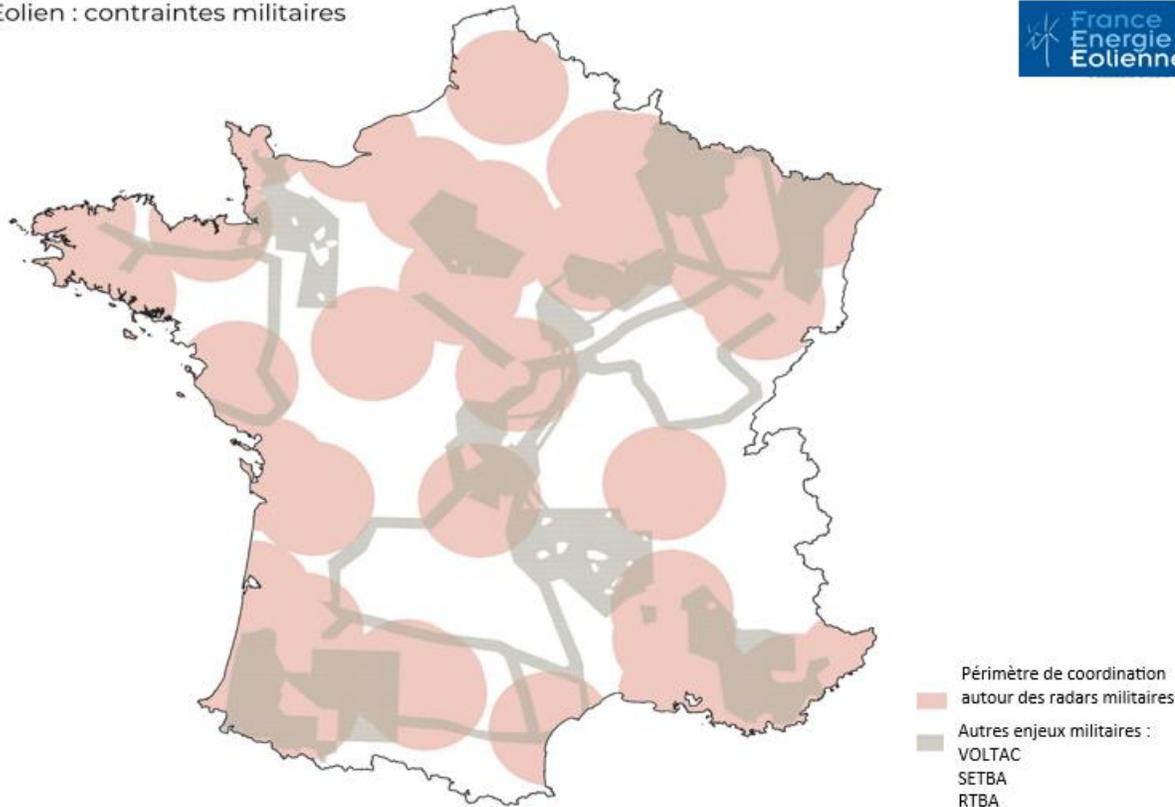
Harris Interactive Survey for the ADEME: the French and wind energy, 7 October 2021

- The survey shows that **73% of the French have a good image** of wind energy;
- They are even **in favor of its development** (71%) – similar trends compared to the previous opinion survey (2018);
- The commitment is **even higher** for people with a main or secondary residence less than 10 km to a wind farm (80% with a good image; 89% in favor of its development).



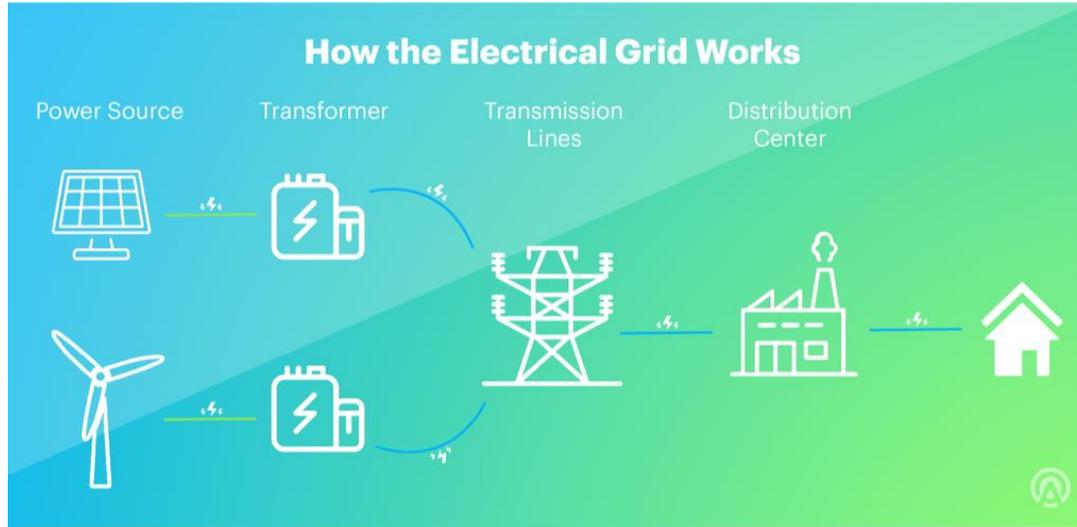
- Several **acceleration and simplification reforms** (ESSOC, ASAP, APER laws) should allow a faster deployment of renewables.
- But we still have a **gap with the European guidelines** in terms of permitting (instruction and authorizations): between **6 and 12 months** asked by European law; between **18 and 24 months** in France.
- The growth of renewables will be multiplied by 2 or 4 according to the sector but **the number of civil servants** in charge of permitting remains stable or slightly grows.
- The **planning and mapping** of renewables contribute a better acceptability but it shall remain simple and easy to understand.

Eolien : contraintes militaires



- Coordination radars zones create uncertainty in the development of wind energy, on a majority of the territory.

- The wind turbines generators have to **coexist with Defence installations** and to contribute to their purpose, but it can only be done with the Army;
- **We need space** for solar PV and degraded surfaces are not enough;
- 50 GW of offshore wind would represent **2,8% of the French metropolitan maritime space**;
- **Sensitive environmental areas** (ex: N2000) are taken into account in the renewables' development; a guide of the European Commission plans their development within those zones;
- **We shouldn't invent new constraints:** (energy) infrastructures have grown in time and space.



Source: Arcadia (Blog)

- We have to invest in **BOTH the generation and the grids networks**, at the European level
- We move to **decentralized and smart electrical systems**
- On the generation and flexibilities alone (without grids), we need to invest between **25 and 35 bn€/year** in 2030-2035 (source: RTE)
- Just an example: French DSO Enedis has to invest **96 bn€ by 2040**.





Thank you for your attention

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