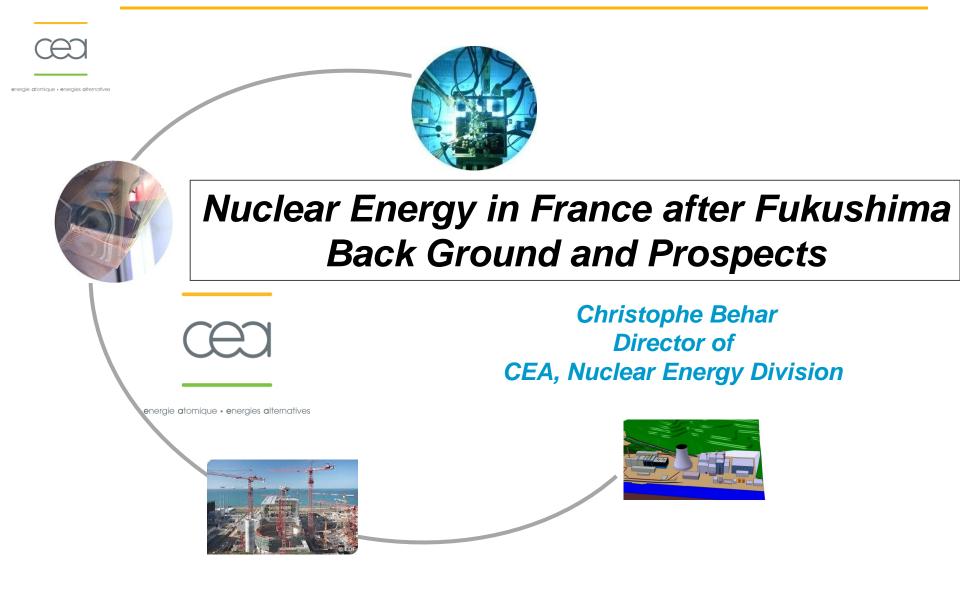
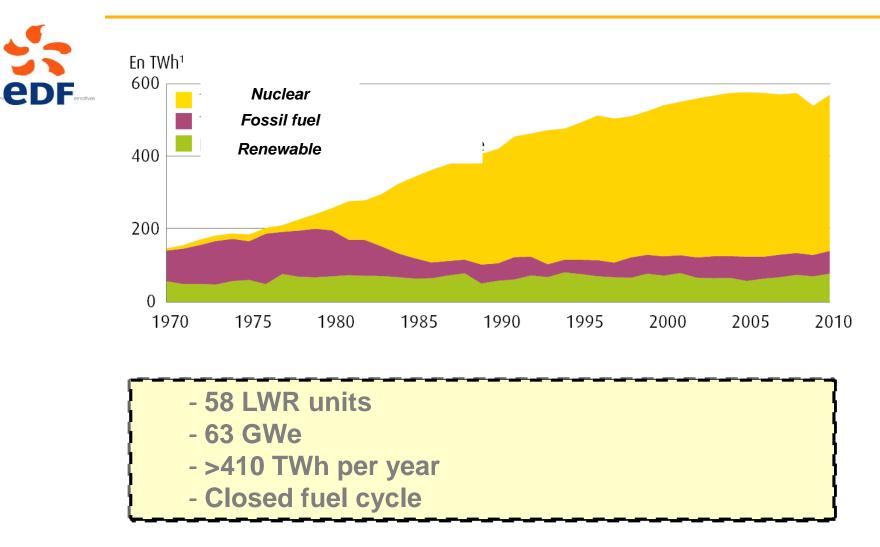
Nuclear Energy in France after Fukushima



FRENCH ELECTRICITY IN FRANCE



2

This French nuclear energy policy is backed by a regulatory framework

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2005 ACT about ENERGY POLICY :

- national self-sufficiency (security of supply);
- large access to energy (competitive price);
- environmental preservation (decrease CO2);
 - nuclear energy, a pillar;
 - R&D for future generation nuclear systems.

• 2006 ACT about TRANSPARENCY & INFORMATION

- independent Safety Authority;
- High Committee for transparency & information ;

• 2006 ACT about NUCLEAR MATERIALS & WASTE

- recycle (decrease waste amounts);
- geological repository for final waste.

And its interest has been re-assessed recently



SAFETY : POST FUKUSHIMA STRESS TEST

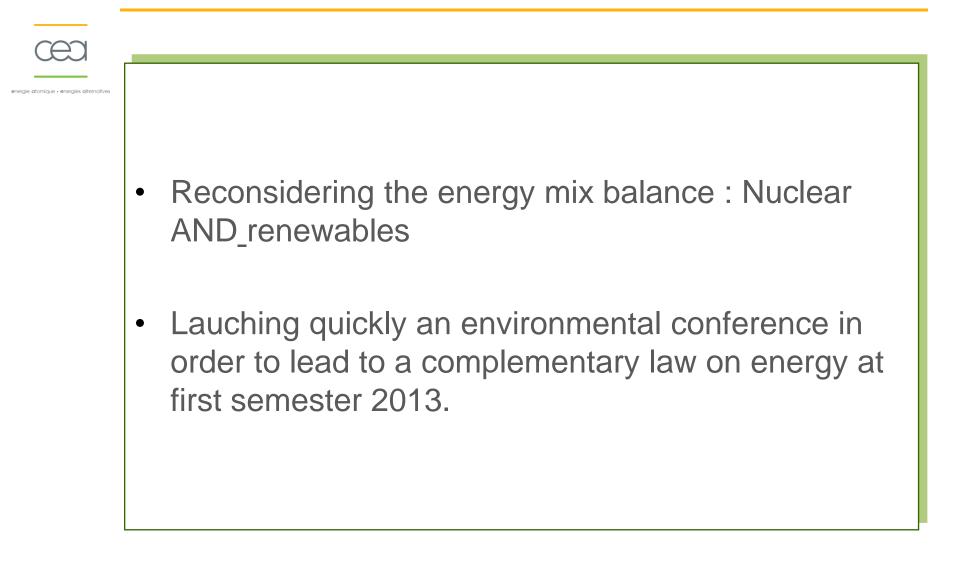


CONCLUSION OF THE FRENCH SAFETY AUTHORITY

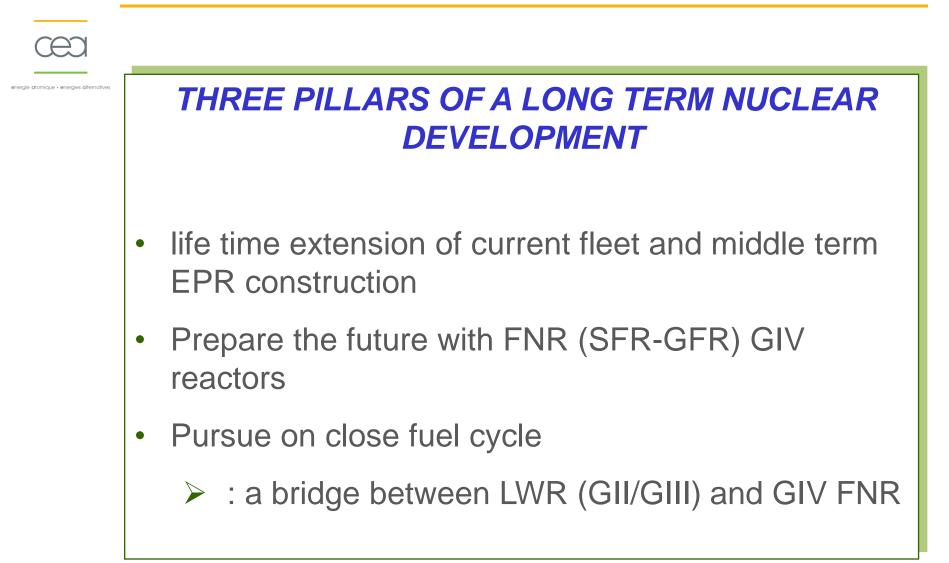
(2012, January 3rd)

- Sufficient level of safety of the french fleet (no « cliff hedge phenomena »
- Reinforcement of the « hard core » of key equipments
- Establishment of a « rapid action force »

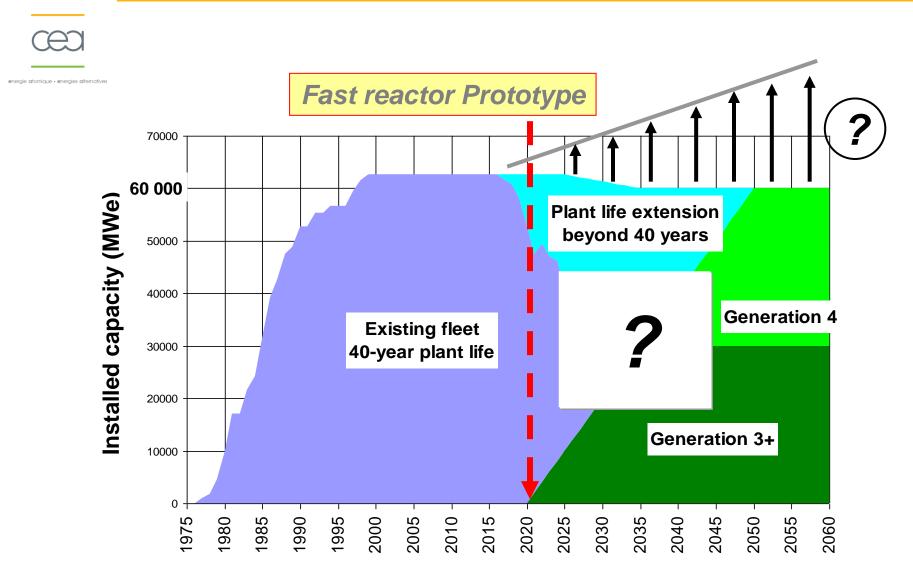
ABOUT THE ENERGY IN FRANCE



WHAT MAYBE THE FUTURE FOR NUCLEAR



LIFE TIME EXTENSION AND MIDDLE TERM EPR CONSTRUCTION

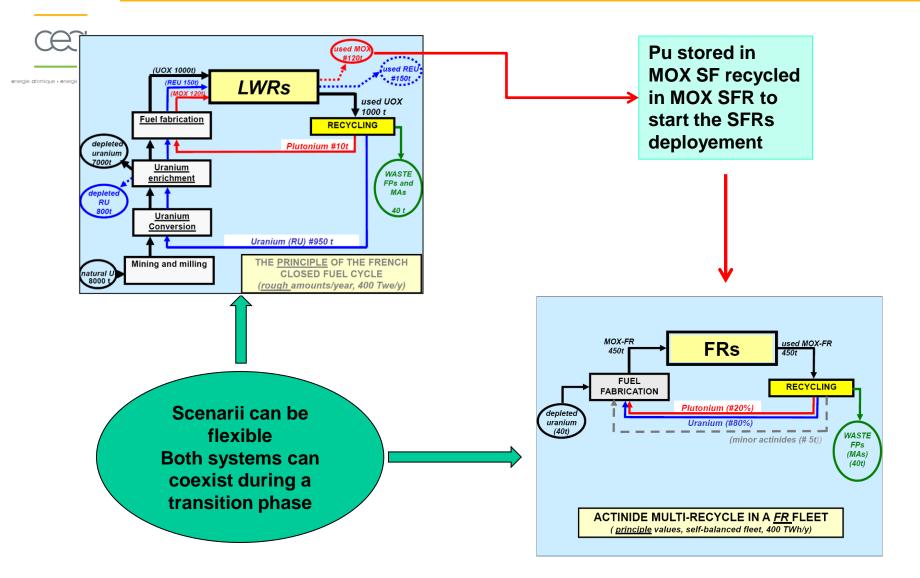


PREPARE THE FUTURE WITH FNR PROTOTYPES

Sodium Fast Reactor, the reference option : <u>ASTRID</u>, the prototype maturity, possible further improvments (safety, operability, economics) commercial level 2040 in France, sooner in other places

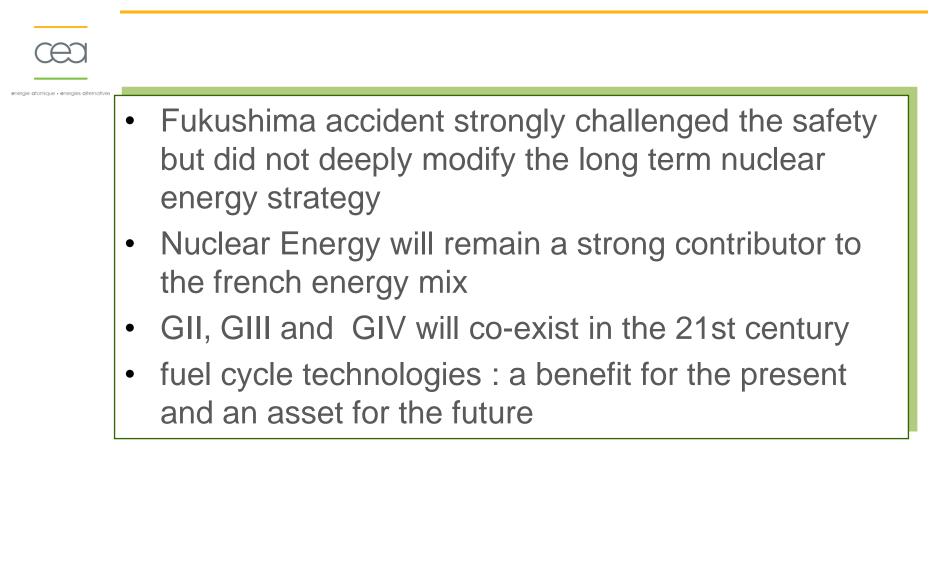
- developped with industrial and international partners
- Gas-cooled Fast Reactor, a long-term option: ALLEGRO, experimental-scale project
 - attractive potentialities
 - but heavy challenges (materials, fuel, safety)
 - In Europe ?
 - Long term

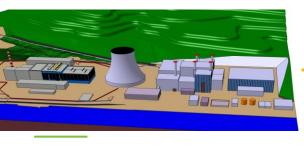
Closed fuel cycle : a bridge between LWR And SFR



10

CONCLUSION





ASTRID PROTOTYPE Schedule

energie atomique • energies alternative

