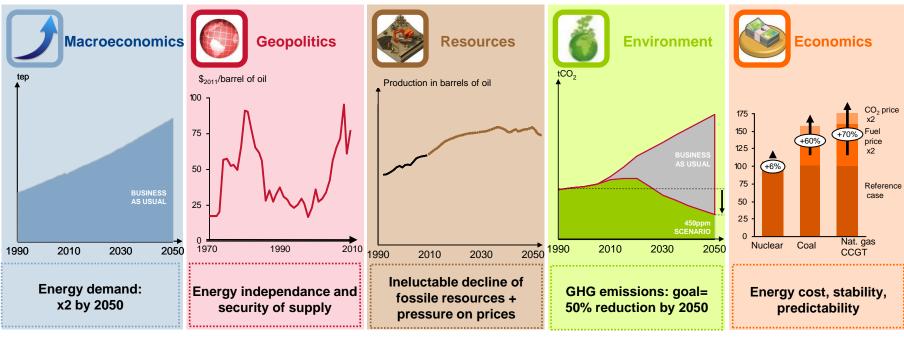
AREVA Forward-looking Nuclear Energy

Karl-Heinz Poets
AREVA South America



Energy market: continued growth announced



WEO 2012 2010 - 2035 Scenario Global primary demand in energy*

Demand in nuclear energy*

Demand in renewable energies*

+1.2% / year +1.9% / year +2.4% / year

Source: IEA ETP: reference scenario 2012 - UNFCC, CERA 2009

* Billions of toe



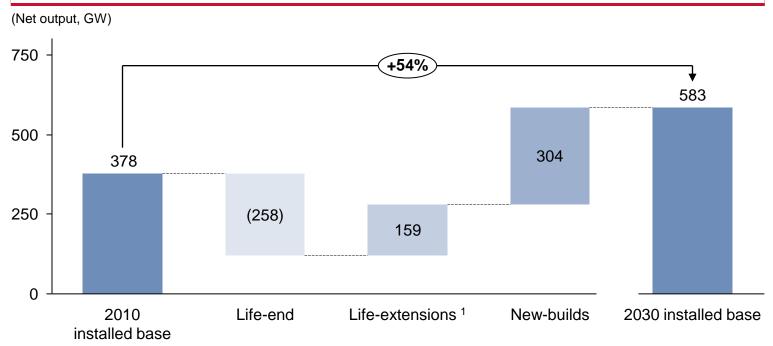
After Fukushima, the Fundamentals for Nuclear Energy remain Unchanged

| Drivers | Fundamentals |
|----------------------------------|---|
| electricity production | ► Energy demand multiplied by 2 by 2050 |
| Climate change | ► Greenhouse gas emissions to be cut by half by 2050 |
| Geopolitics | ► Energy independence and security of supply imperative |
| Fossil resources | Limited resources, short and mid-term perspectives show rising prices of fossil energies |
| Construction and operating costs | Marginal impact on Gen 3 NPP new builds and limited impact on existing NPPs |
| Financing | Access to financing restricted to new build NPP projects complying with the highest safety standards |
| Public acceptance | Public acceptance concerns favour nuclear technology leaders promoting highest safety standards |



Global nuclear capacity is projected to increase by 54% by 2030

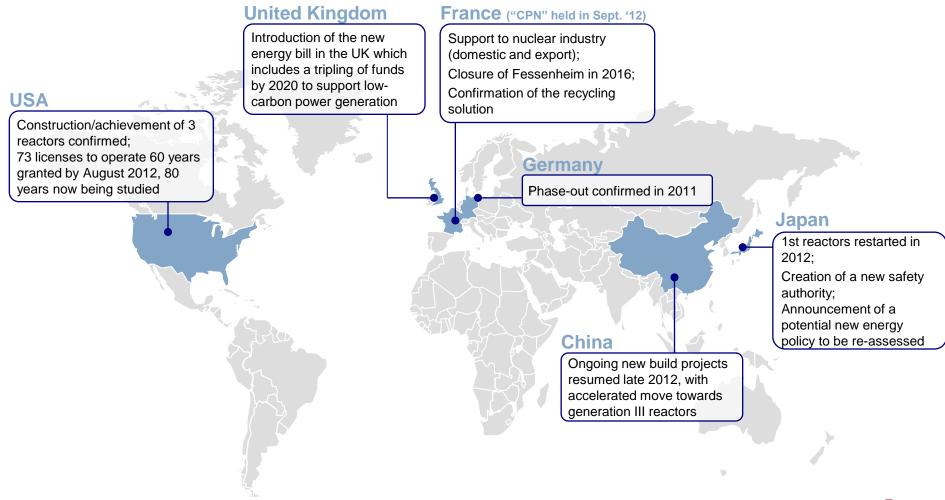
AREVA 2011 forecast of 2010-2030 evolution of the global nuclear installed base



1. Including power uprates



Major energy policy developments announced since Fukushima





AREVA Group Safety is the Cornerstone of our Strategy

Safety of our Customers

Supporting utilities in demonstrating and upgrading the safety of their fleet





Safety of our Operations

Maintaining the highest level of safety throughout the lifecycle of our nuclear facilities



Reduced accident frequency rate (number of accidents per million hours worked) from 6.6 in 2004 to 1.7 in 2011

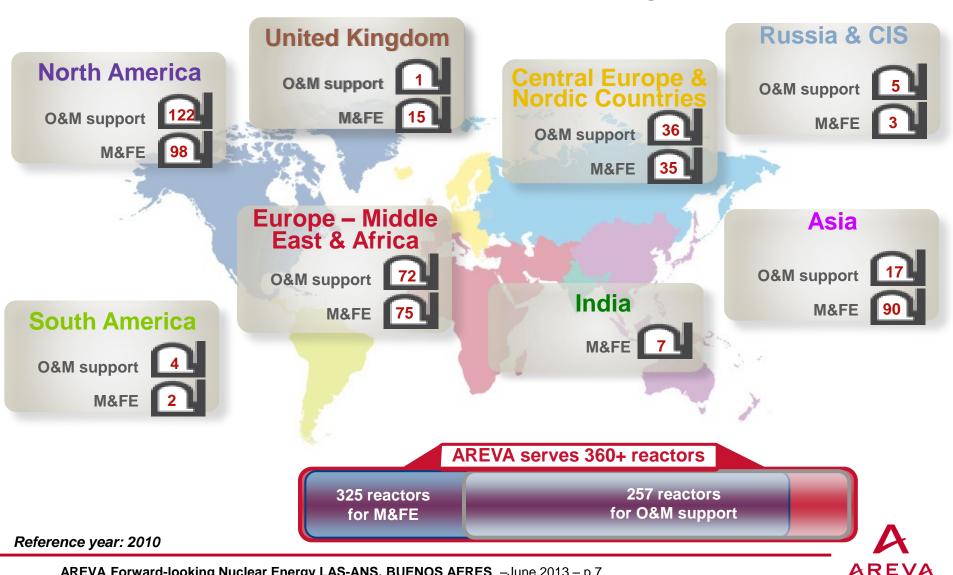
Safety of our Products

A wide new-generation reactor portfolio that offers the highest safety features



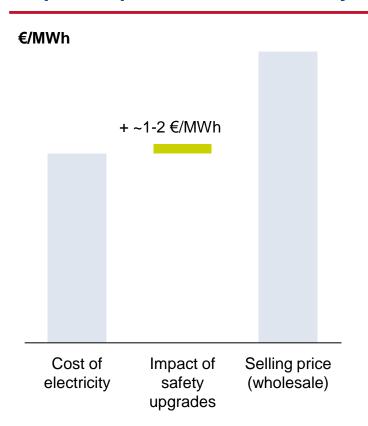


360 + Nuclear Reactors are served by AREVA



Post-Fukushima safety upgrades investment will only have a marginal impact on the profitability of nuclear

Impact of post-Fukushima safety upgrade investment on nuclear profit margin



- Investment required for post-Fukushima safety upgrade packages has been estimated in 2012 between €100m and €200m per unit by the European Commission
- Such safety upgrades would only increase the cost of generating electricity from nuclear power between 1 and 2 euros by MWh and would not jeopardize its competitiveness



^{*} Main assumptions: remaining plant lifetime 30 years / plant output 1,000 MWe / works spanned over 5 years / load factor 85% / WACC 8%

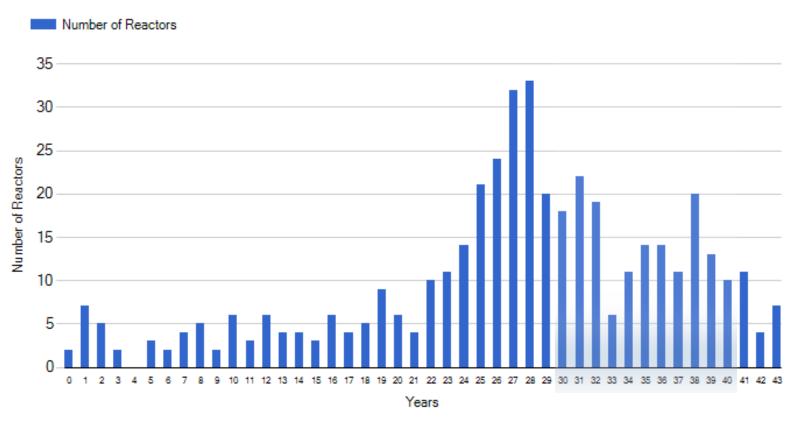


From Safety Alliance to Forward Alliance



In the next decade, 150+ new reactors will be operated after license renewal

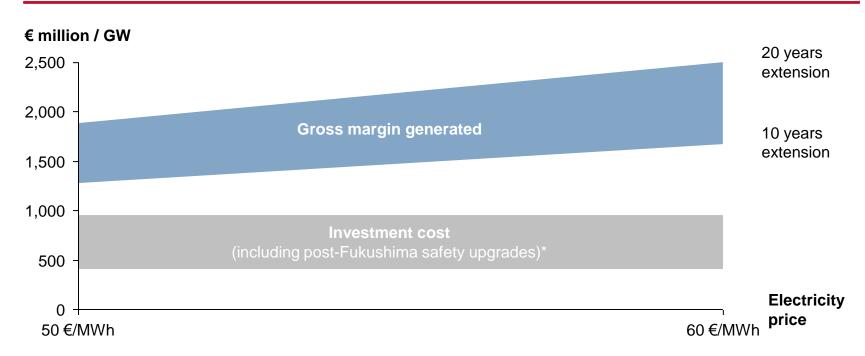
Total Number of Reactors: 437





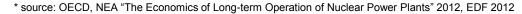
Extending the lifetime of a nuclear power plant for 10-20 years is highly profitable

Life extension project value creation for an amortized nuclear plant of 1,000 MW





Revenues generated by nuclear power plants' lifetime extension programs exceed the costs incurred for implementing them





AREVA and ATMEA Nuclear New Build Perspectives for EPR and ATMEA1

ONGOING NEGOTIATIONS

(BILATERAL)



EDF Hinkley Point C Units 1-2



CGNPC Taishan 3-4



NPCIL Jaitapur 1-2



TurkeySinop Project,
4 units

ONGOING BIDS



Fennovoima *Pyhäjoki*



TVO OL4



JAEC



CEZ *Temelin 3-4*

BIDS TO COME



Saudi Arabia



Poland - PGE



UK - GDF Suez - Iberdrola



South Africa - ESKOM



Sweden - Vattenfall



Vietnam - EVN



Argentina - NA-SA



Malaysia - MNPC



UAE - ENEC



USA - EDF / PPL / Duke Energy



Hungary



Canada





Global leadership for the construction of Gen III+ reactors (EPR)

Percentage of completion in %, as of June 30th 2012 (AREVA scope)

Olkiluoto 3

82% complete (Supply of a turnkey power plant)



Flamanville 3

62% complete (Supply of a Nuclear Steam Supply System)



Taishan 1 & 2

79% complete (Supply of 2 nuclear islands)







EPR: unique lessons learned on projects



Evolution between OL3 and Taishan

Engineering

Number of engineering hours on the **Nuclear Steam Supply System scope** -60%

Construction

Duration of construction (from 1st concrete to dome installation)

-50%



Procurement

Average procurement time (reliability of procurement planning) -65%



Total

Total construction time (from 1st concrete to 1st divergence) -40%



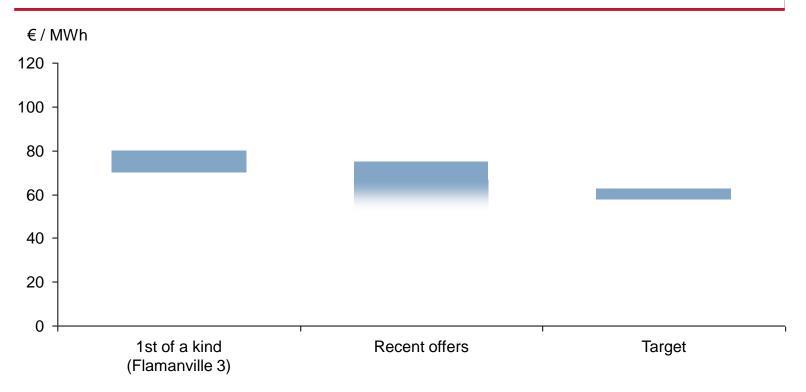


50% of the Taishan personnel had participated in OL3 or FA3 projects



1st of a kind projects are not representative of the EPR cost, which keeps decreasing offer after offer

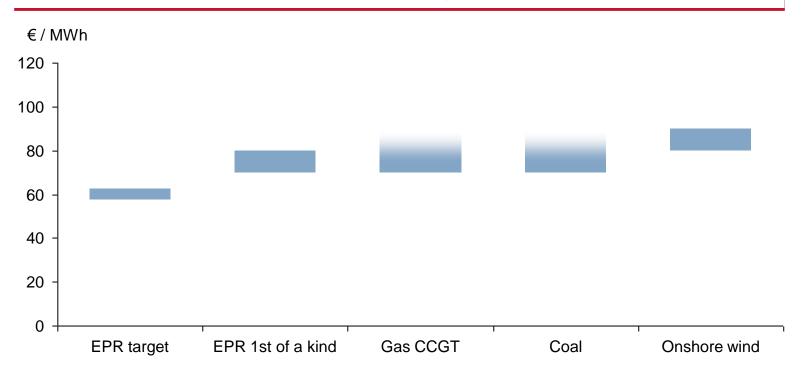
Evolution of EPR levelised cost of electricity in Western Europe





EPR is competitive against other power generation technologies

Levelised cost of electricity of various technologies in Western Europe





CONCLUSION

► 2 years after Fukushima incident, AREVA has a brilliant future in nuclear energy:

New builds with EPR and ATMEA

Installed Base with fuels, services, life time extension...

