

# REGULATORY, FINANCIAL AND POLITICAL CHALLENGES TO NEW BUILD: THE EDF EXPERIENCE

WNA Regional Workshop Series

ASSOCIATION

Moscow 25-26 October 2016

#### Sandro Baldi

Director of Technologies and Strategy – Nuclear New Build Division - EDF



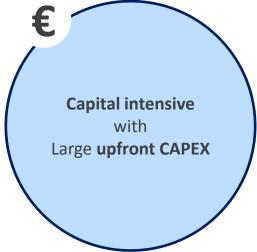
#### **Table of Contents**

- Nuclear New Build: an exceptional endeavour
- Current Challenges to New Build in the World
- EDF: How to Manage the Challenges and Succeed
- Hinkley Point C: a unique and exciting journey
- **EDF:** What Did We Learn?

#### **Nuclear New Build: an exceptional endeavour**







\* Source: IEA-NEA Nuclear Energy Roadmap 2015



- Vast quantities of materials and equipments
- Millions Engineering hours
- Hundreds contracts
- Thousands people on construction site



Significant **Impacts and Benefits** on Local communities and

business



Long Average **Construction duration** 

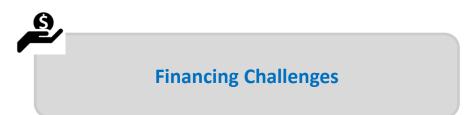
belated

**Return On Investment** 











**Politics and Policy Challenges** 



**Public Acceptance Challenges** 





#### **Regulatory Challenges**

#### ♦ Nuclear Licensing & Environmental acceptance

- Prescriptive or guidelines approach
- Visibility and reliability of duration of process
- ▶ Regulators approachability and vendor/regulator openness

#### **♦ Safety & Security**

▶ Increased and more stringent requirements

#### **♦ Electricity Market competition**

- Competitive market or protected/controlled markets
- Existence or not of capacity mechanism
- ► Contract for Difference/Price quaranty





#### **Financing Challenges**

**Large upfront CAPEX** 

History of cost overrun and delays

Manage long term risks

Long term Return On Investment

Costs of decommissioning and waste disposal







**Politics and Policy Challenges** 

Unfavourable Energy Policies

Political Instability

Disadvantageous Energy Subsidy Approach International Climate Resolutions

Lack of National Energy Strategy





**Public Acceptance Challenges** 

#### Rarely managed via a mature political approach

Frequently erratic

Used and abused by media

Require high level of effort and extensive communication



# **EDF:** How to Manage the Challenges and Succeed



#### Strong Leadership



#### **Durable and Reliable Partnerships**



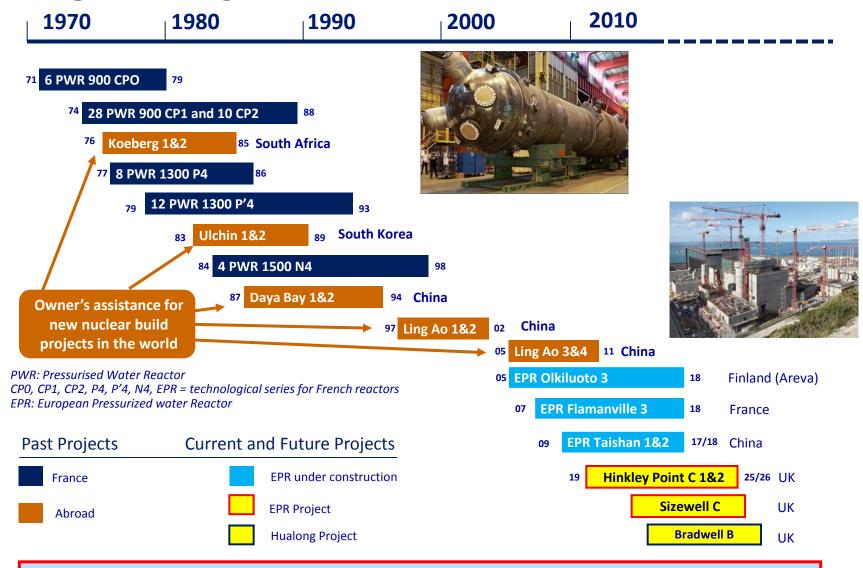
Transparent, Flexible, Resilient Stakeholders Management



Safe, Performing, Reliable Product



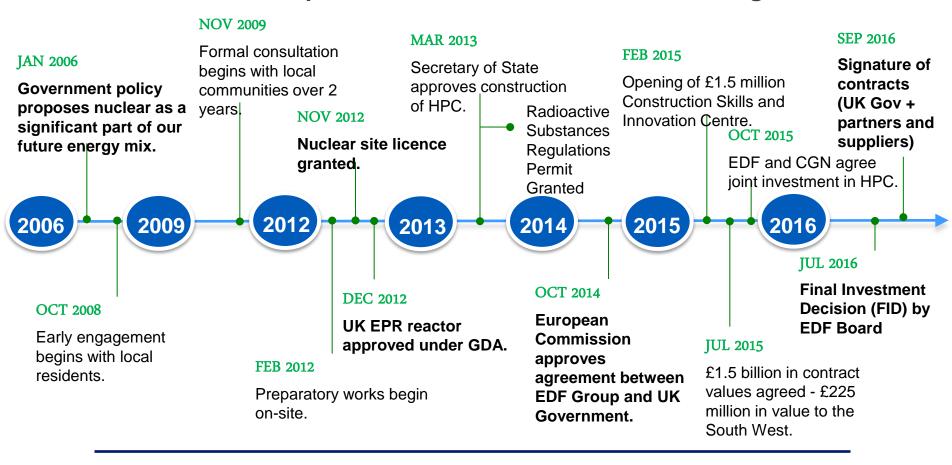
# **EDF** and its Worldwide Partners: A Long Journey which started in the 1970's





# Hinkley Point C: a unique and exciting journey

The first nuclear power station to be built in the UK in a generation.







Sandro BALDI



















#### **EDF: What Did We Learn?**

Strong Leadership

Developer Credibility and Durable and Reliable Partnerships

▶ Transparent, Flexible, Resilient Stakeholders Management

▶ Safe, Performing, Reliable **Product** 

Are the KEYS to unlock SUCCESS in overcoming CHALLENGES



# Thank You

