



# Restoring people's confidence in nuclear safety and risk management

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Managing Director

# Where we have come from

1954 UKAEA formed

1957 CEGB formed

1971 BNFL formed

1991 Nuclear Electric & Scottish Nuclear formed

1996 AEA Technology, Magnox Electric and British Energy formed. BNFL R&T Division established

1998 Magnox Electric became part of BNFL

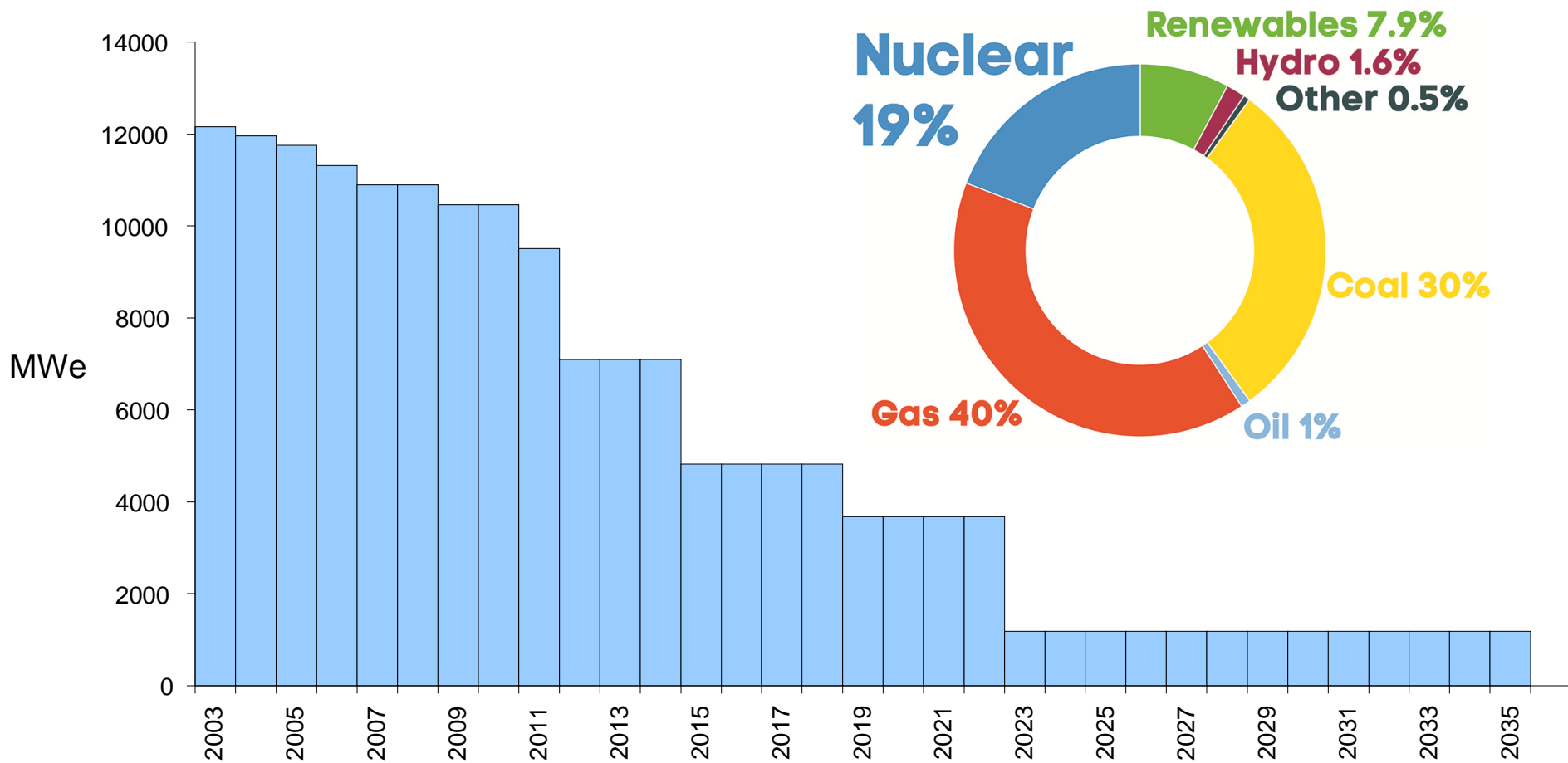
2003 AEAT Nuclear Engineering acquired by BNFL R&T, which rebranded as NSTS

2005 Rebranded as Nexia Solutions

2008 National Nuclear Laboratory established



# UK has been at forefront of making the case for nuclear



# Issues Surrounding Nuclear & Radiation

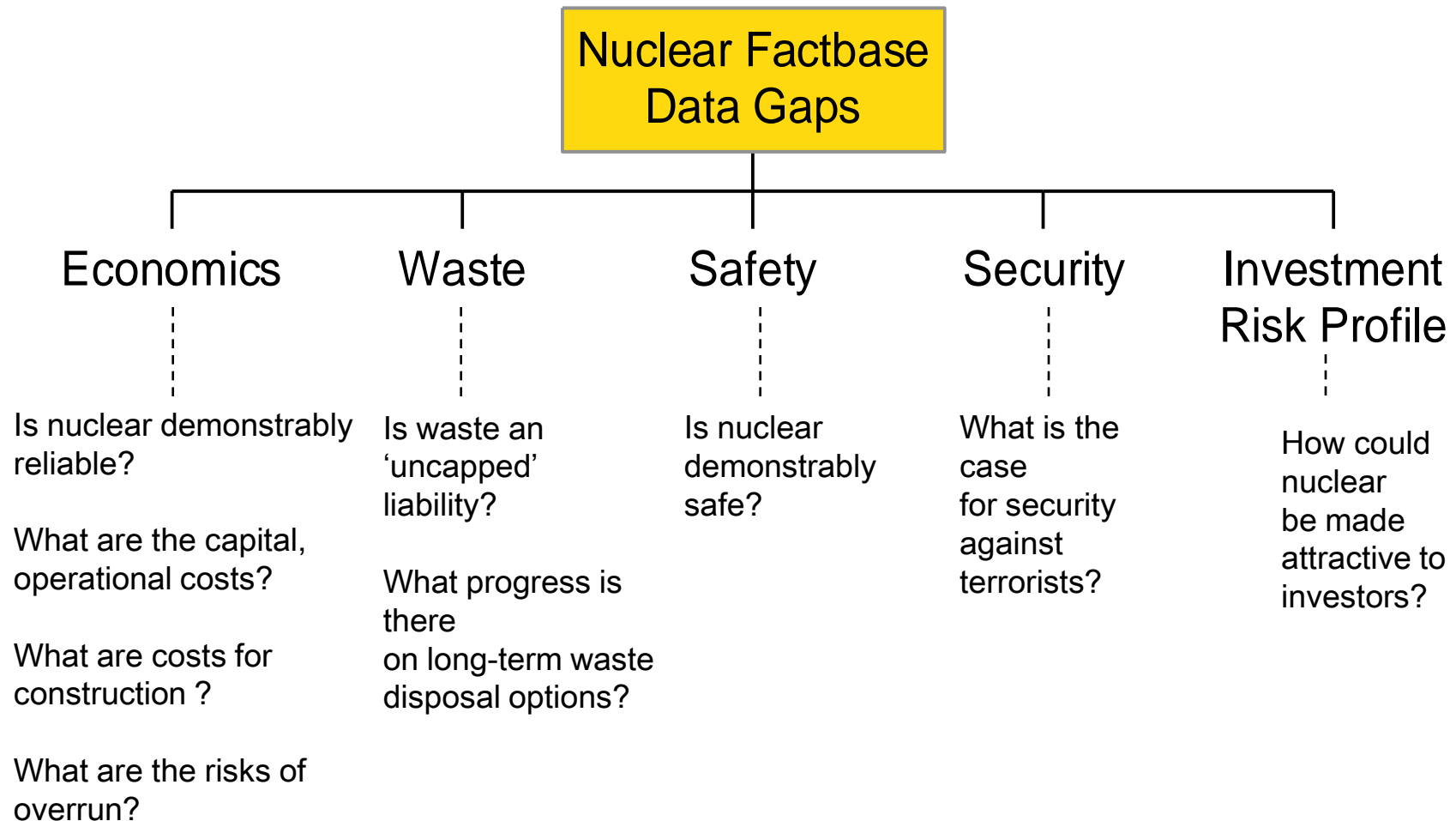
## Balancing risk vs benefit

- ❖ Low Carbon Technology
- ❖ Security of supply
- ❖ Safety
- ❖ Base load Generation
- ❖ Economics
- ❖ Waste Management



Nuclear power no thanks  
is not an option

# Addressing the information gaps and the myths

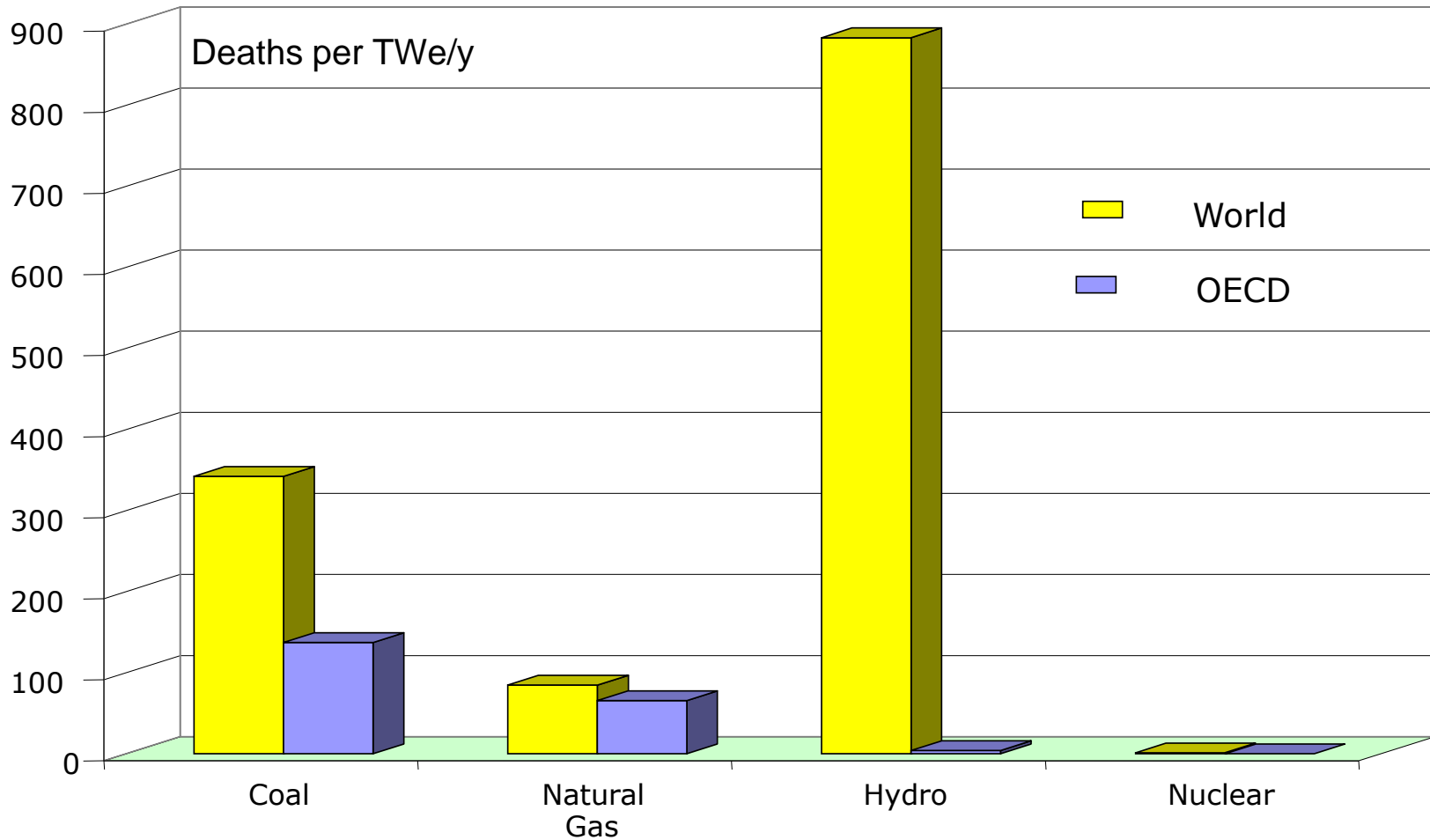


# Important to Have Trusted Voices

- There are some people who will never fully believe what is said by the nuclear industry.
- Important to also have messages delivered from other trusted sources, including:
  - Media
  - Academics
  - Politicians
  - Regulators
  - Labour unions
  - Local community representatives
  - etc



# Safety Record



# The 2050 Calculator - transparency



*80% reduction in CO<sub>2</sub> levels from 1990 levels are legally binding – Solving the energy dilemma*



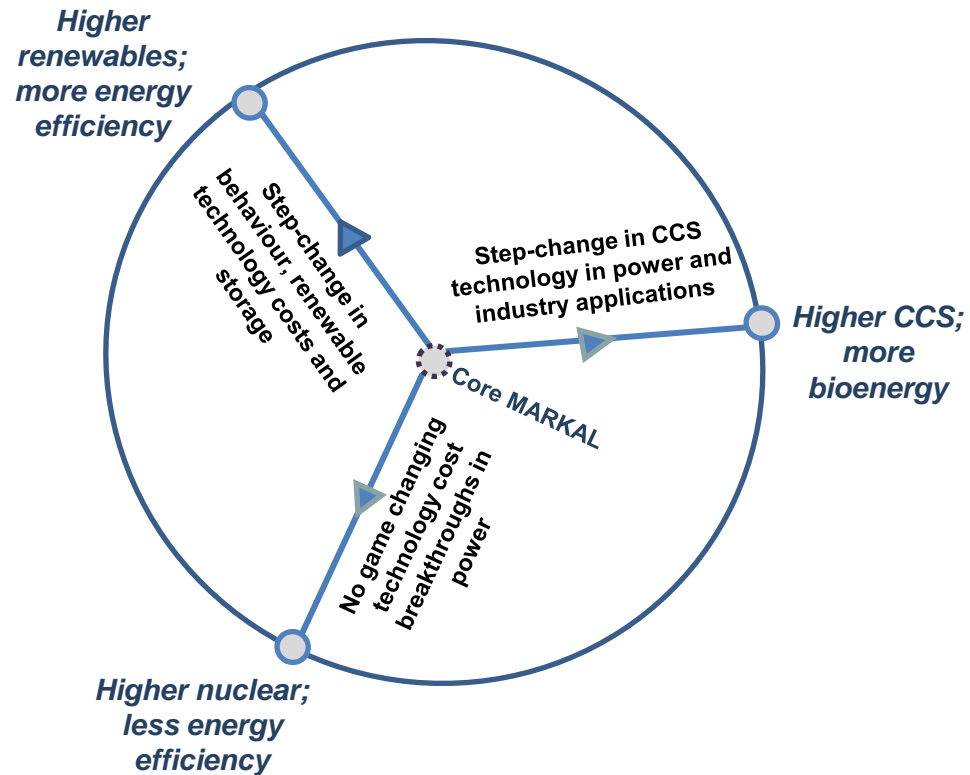
# Show people the outcome scenarios

## The Carbon Plan: Delivering our low carbon future



December 2011

HM Government



# UK Press coverage has been positive

## Britain must go nuclear to help save the planet

### Time for the nuclear option

By Angela Jameson  
Industrial correspondent

that nuclear generators do not produce climate-changing carbon dioxide emissions.

The Energy White Paper

My own view is somewhat different and I think the debate moving in the direction of re-orienting nuclear power as an



## The nuclear option: why atomic power is creeping back into political favour

Governments are concerned about dependency on fuels

need to consider how facilities from the nuclear power is again

**CHEAP AND PLENTIFUL GAS IS NO LONGER AN OPTION**

## Nuclear power 'is only way to save Britain'

NUCLEAR power was hailed yesterday as the one single way to rescue Britain from global warming amid fears of power cuts this winter.

A top civil servant

people think there will be blackouts this winter and next. I think there is a good chance of that happening."

He said there was a physical shortage of gas

global warming.

But environment groups slammed a move towards nuclear power. Friends Of The Earth director Tom Juniper said: "Nucle...

# WHY NUCLEAR POWER IS THE ONLY SOLUTION



**Robert Matthews**

IF YOU think the summer's been bad, just wait until winter; no light, heat or power, thanks to politicians who have left us vulnerable to nature's whims. One energy supply company warned last

renewables of 20 per cent of UK electricity within 15 years. The idea of putting a substantial part of our energy supply in the hands of something as fickle as Britain's weather would be laughable were politicians of any sense, not

world. They insist that new reactor designs are safer and more efficient than the uneconomic leviathans that gave nuclear power its terrible reputation.

# Independent & Authoritative Regulator



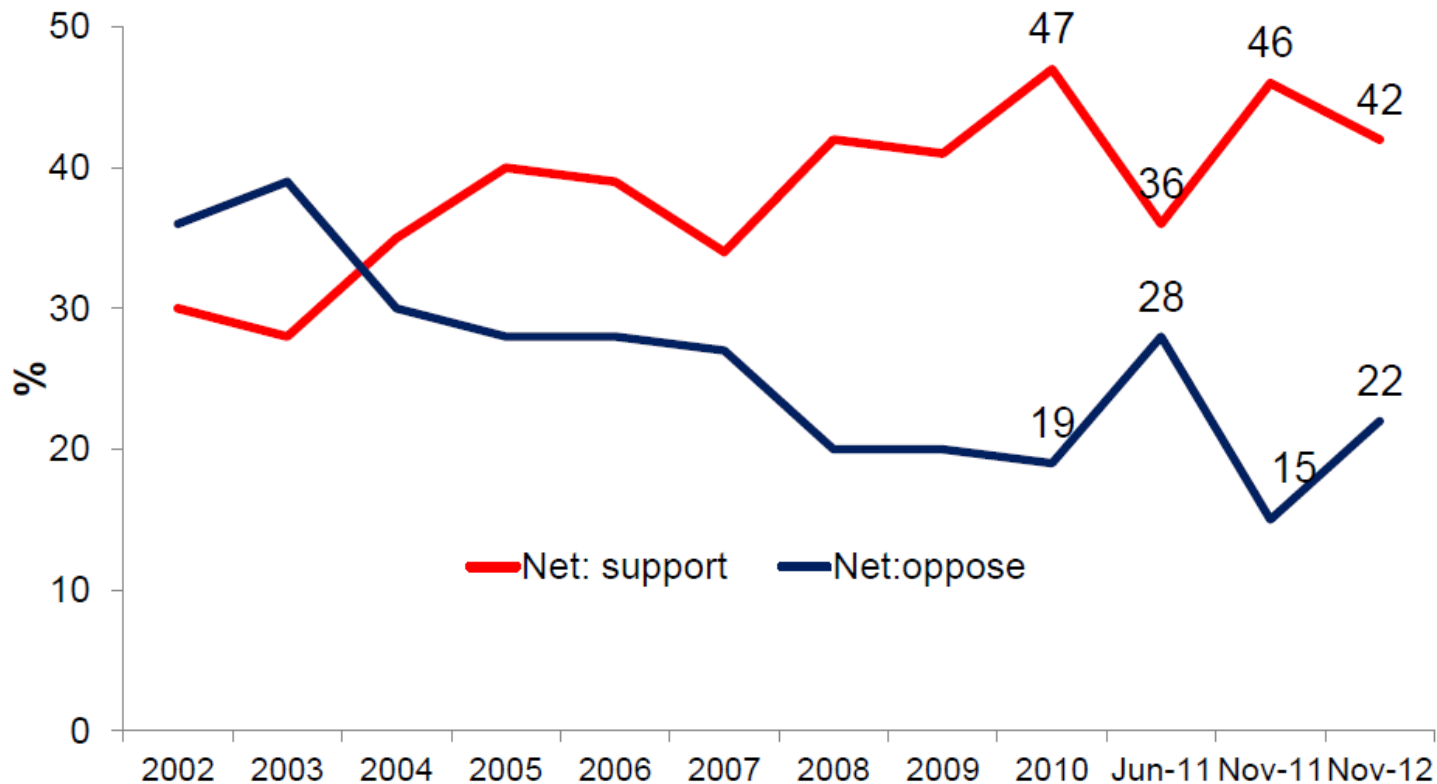
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## Benefits of GDA

- ✓ **Early engagement between regulator and vendor/operator**
- ✓ **Identifies and resolves key issues long before construction starts**
- ✓ **Builds certainty for designer (vendor), operator, regulator, government and the public**
- ✓ **Increased openness and transparency**
- ✓ **Joined up regulation**
- ✓ **Dedicated resources (assists GDA and normal regulatory business)**
- ✓ **Public comment process and routine updates**

# UK Public Opinion has Survived the "Fukushima Dip"

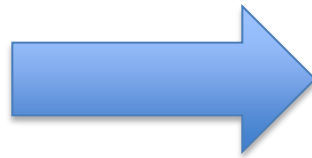
To what extent would you support or oppose the building of new nuclear power stations in Britain to REPLACE those that are being phased out over the next few years? This would ensure the same proportion of nuclear energy is retained (Net: support; Net: oppose)



Tracking adjustment for method change: Support (-5%); Oppose (-4%). Based on comparable question on favourability.  
Base: Online survey (2,009)  
Source YouGov Dec 2012



# Recognise That Some People Will Never be Converted.....



.....but education is the key to addressing this and it will be a long process

# Conclusions

- Nuclear power (radiation) no thanks is not an option issues such as climate change as well as energy security, availability and affordability are important
- Balance of risk vs benefit must be considered as well as existing safety record
- Use of third parties very beneficial, making information and decision making open and transparent and ensuring a strong independent regulator
- For the long game education!





Thank you for listening