

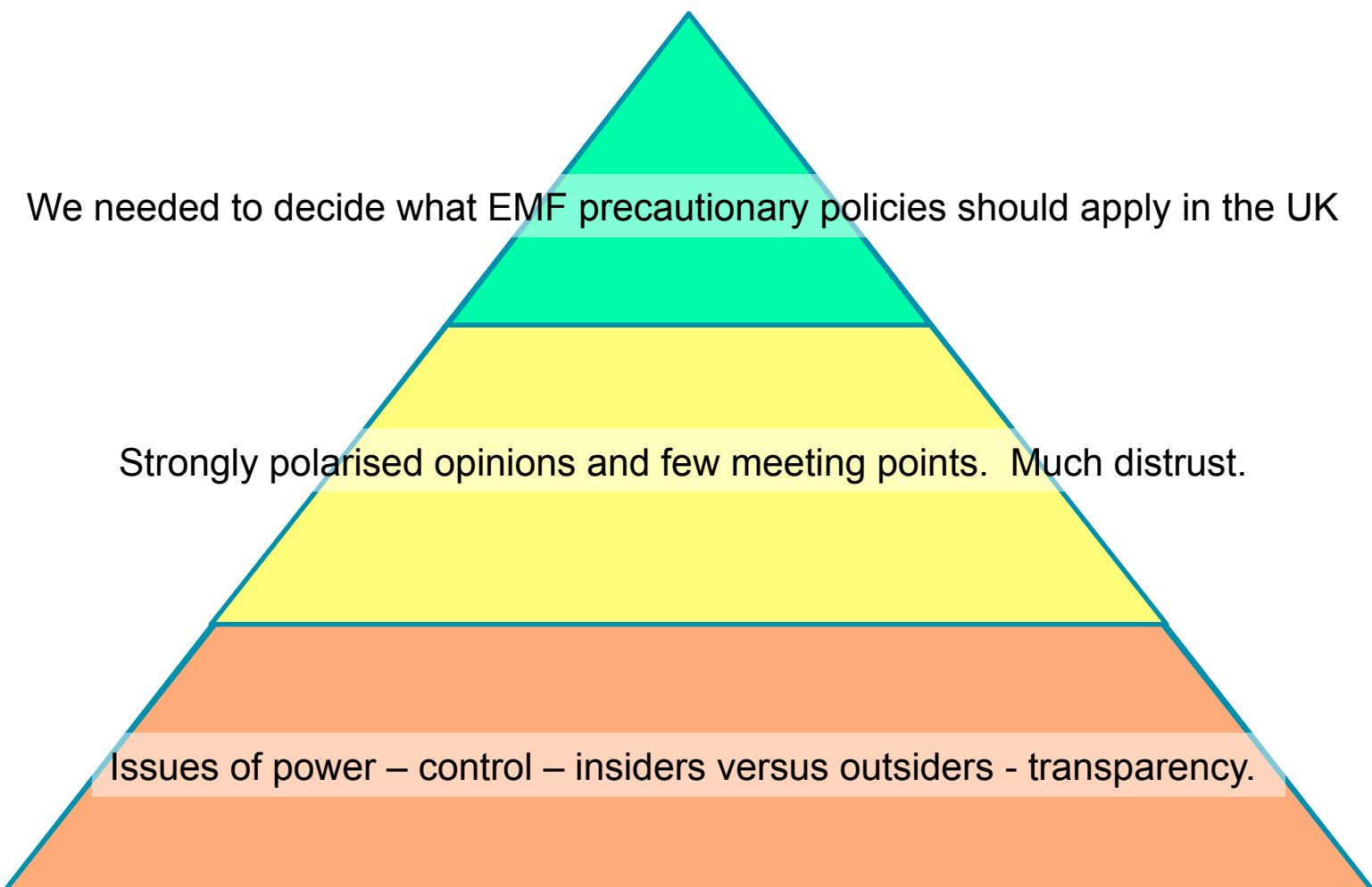
SAGE

Stakeholder Advisory Group on ELF EMFs



John Swanson – National Grid
Graham Lamburn - Powerwatch

The problem



We needed to decide what EMF precautionary policies should apply in the UK

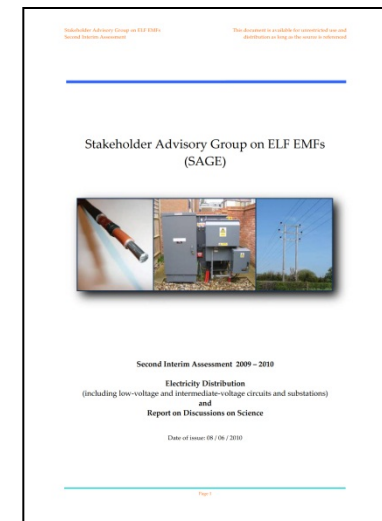
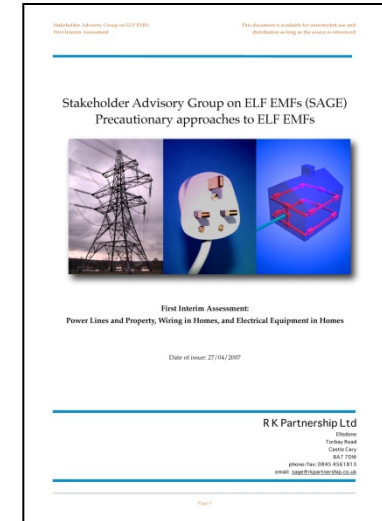
Strongly polarised opinions and few meeting points. Much distrust.

Issues of power – control – insiders versus outsiders - transparency.

The solution

■ A Stakeholder Advisory Group

19. New Build	Level of technical difficulty	Cost (£)	Safety	Effectiveness in reducing EF ₃	Effectiveness in reducing MF ₅
Radial circuit (not ring)	✓✓✓	✓✓	✓✓	✓	✓✓✓✓
Plastic gas + water mains (coming into the house)	*11				
Earthed metal conduit	✓	✓	*5	✓✓✓	*30 *
Demand Switches	*10	✓✓	*42	*15	*31
Labelling (maker + installed eqpt.)	*12	*13	*17	*43	*14
Do nothing	✓✓✓✓	✓✓✓✓	*	✓	✓
Phase & neutral together at all times	*18	✓✓	*43	*26	*32
MF RCD/MCB or RCBO	*18	✓✓	✓✓✓✓	✓	✓✓✓



And the issues...

Professional facilitation

Understanding needs

Membership criteria

Decision-making methodologies

Sabotage

Third-party implementation

Power and control

Cost-benefit analysis

The re-entry problem