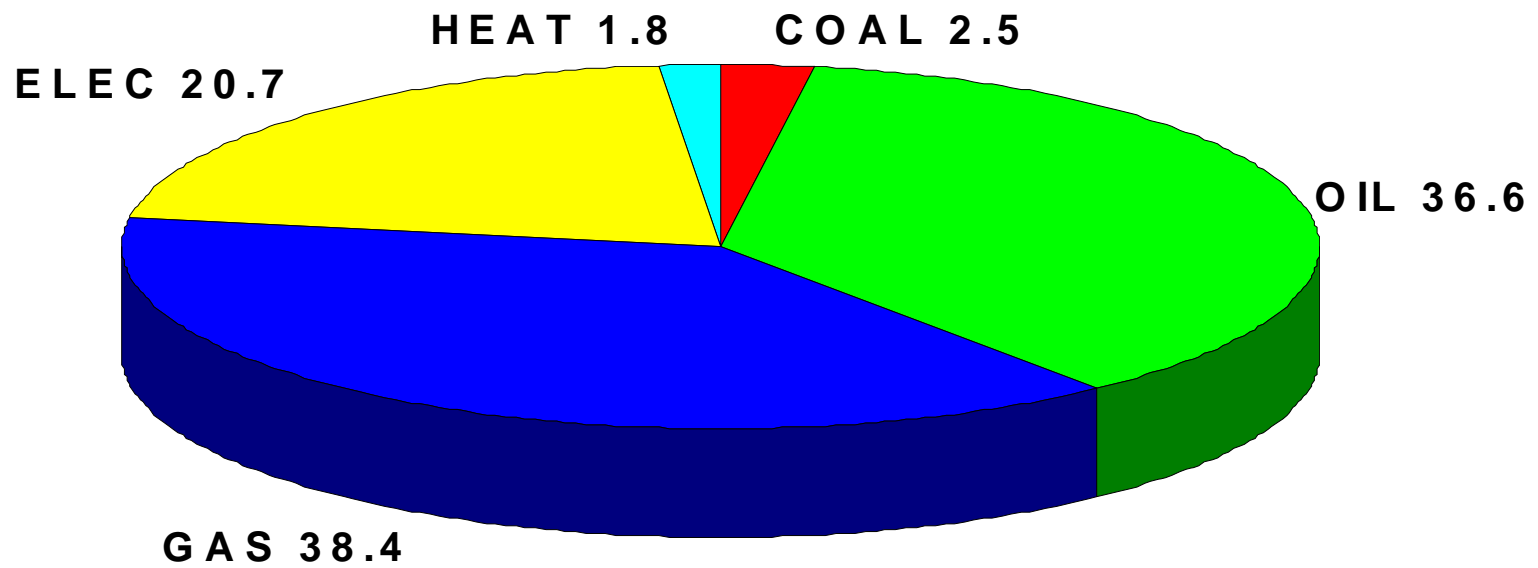


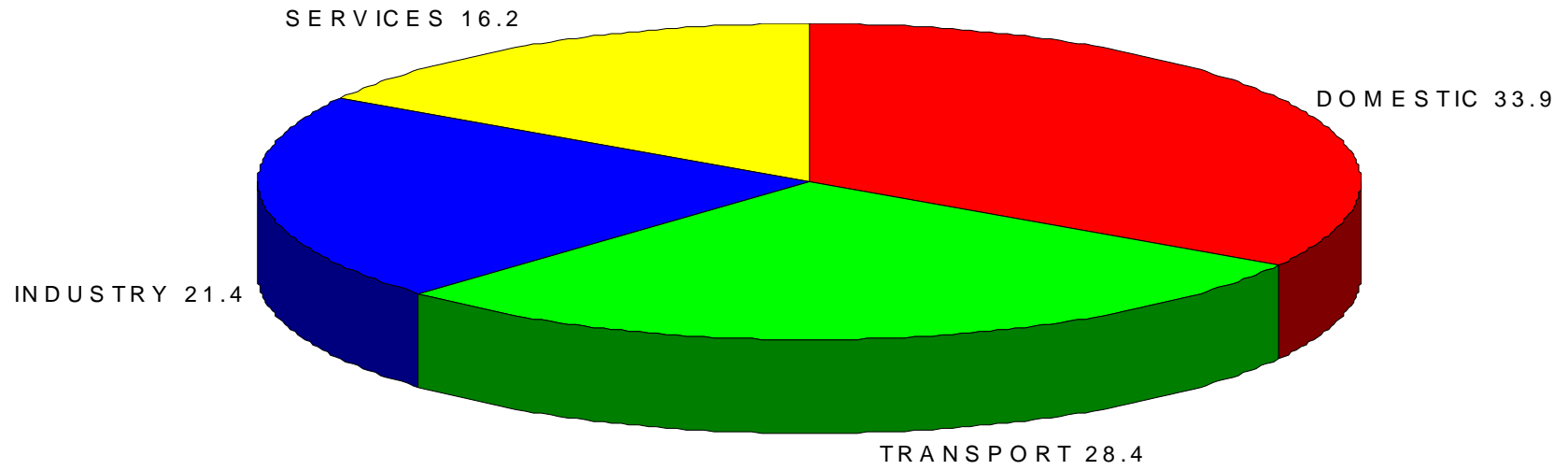
ENERGY ISSUES FOR SCOTLAND

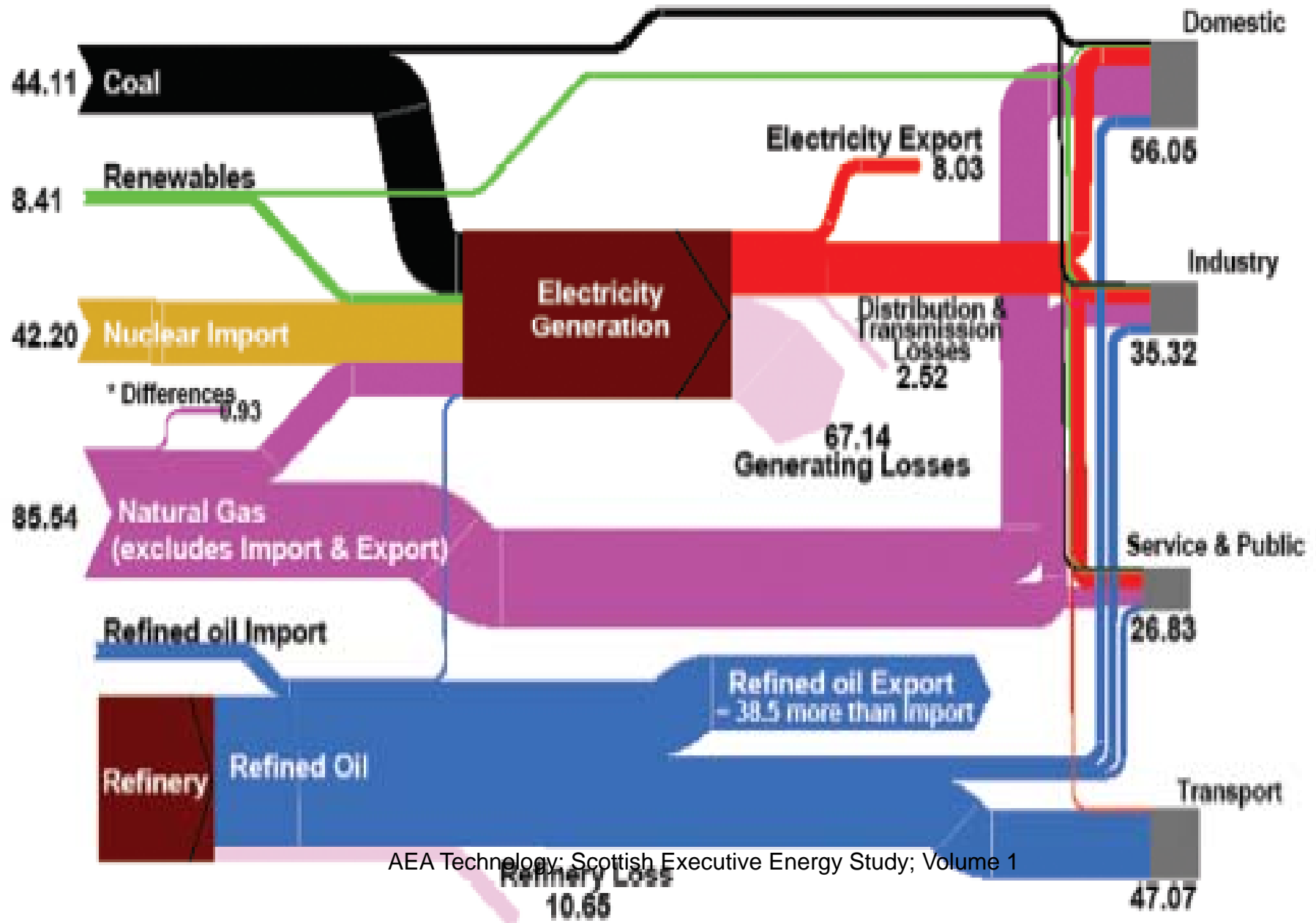
**ROGER CROFTS, SECRETARY, ROYAL
SOCIETY OF EDINBURGH COMMITTEE OF
INQUIRY INTO ENERGY**

SCOTTISH CONSUMPTION BY SOURCE PERCENTAGES



SCOTTISH ENERGY CONSUMPTION BY SECTOR
PERCENTAGES





ENERGY ISSUES

- **Pessimism or optimism?**
- **Electricity supply debate Strategic framework**
- **Concerted Action**

ENERGY FACTS?

- ✓ Fossil fuels drive global climate change
- ✓ Fossil fuel supplies in decline
- ✓ Transport & heating dominate
- ✓ Prices volatile & security of supply uncertain
- ✓ Consumption rising
- ✓ Energy savings poor record
- ✓ No technologies environmentally benign
- ✓ Energy storage not solved
- ✓ Electricity stations might all close by 2027

SCOTLAND'S POSITION?

Optimism

- ✓ Energy high on political agendas
- ✓ Public becoming engaged
- ✓ Top class R&D
- ✓ Industrial leadership
- ✓ Novel solutions in place
- ✓ Opportunity for scaling up

Pessimism

- ❖ No strategy
- ❖ Ineffective action on efficiency
- ❖ Price resistance
- ❖ No consensus
- ❖ Instruments not working effectively
- ❖ No decisions on electricity generation

NUCLEAR v. RENEWABLES

Our recommendation

Subject to agreement on implementing a satisfactory solution to the very long-term treatment of radioactive waste, we encourage the UK Government and the Scottish Executive to keep open the nuclear generating option in the interests of diversity and security of supply and suppression of greenhouse gases

NUCLEAR v. RENEWABLES: the issues

Unresolved

Radioactive waste storage

Landscape

Life time costs

Debateable

GHG emissions reduction

Importing nuclear from others

Obvious

Baseload

Grid connection & capacity

A STRATEGY FOR SCOTLAND

✓ Strategic aim:

**A secure,
competitive,
socially equitable &
low carbon emissions
supply of energy for Scotland**

ENERGY OBJECTIVES FOR SCOTLAND

1. To encourage energy efficiency to benefit economic development
2. To ensure that energy availability contributes to improvements in social benefits
3. To minimise environmental effects globally & locally
4. To capitalise on natural energy resources in economically viable & environmentally sensitive way

DOING NOTHING IS NOT AN OPTION: WE NEED ACTION NOW

1. Effective energy efficiency
2. Cleaner energy
3. More research, development & demonstration
4. Improving market operation
5. Increasing understanding & stimulating debate

And a carbon tax?