



Heat Action Plans

All Energy 2009

David Cameron
Chief Technical Officer

The Forum for Scotland's Renewable Energy Industry



Renewable Energy Targets

Targets set to contribute to Kyoto agreement
By 2050

- Scotland 80% Green House Gas reduction

By 2020

- EU overall 20% renewable energy
- UK 15% renewable energy
- Scotland 20% renewable energy

Renewable Energy Targets

In Scotland this breaks down to

- 50% Renewable Electricity
- 10% Renewable Transport Fuels
- 11% Renewable Heat

by 2020

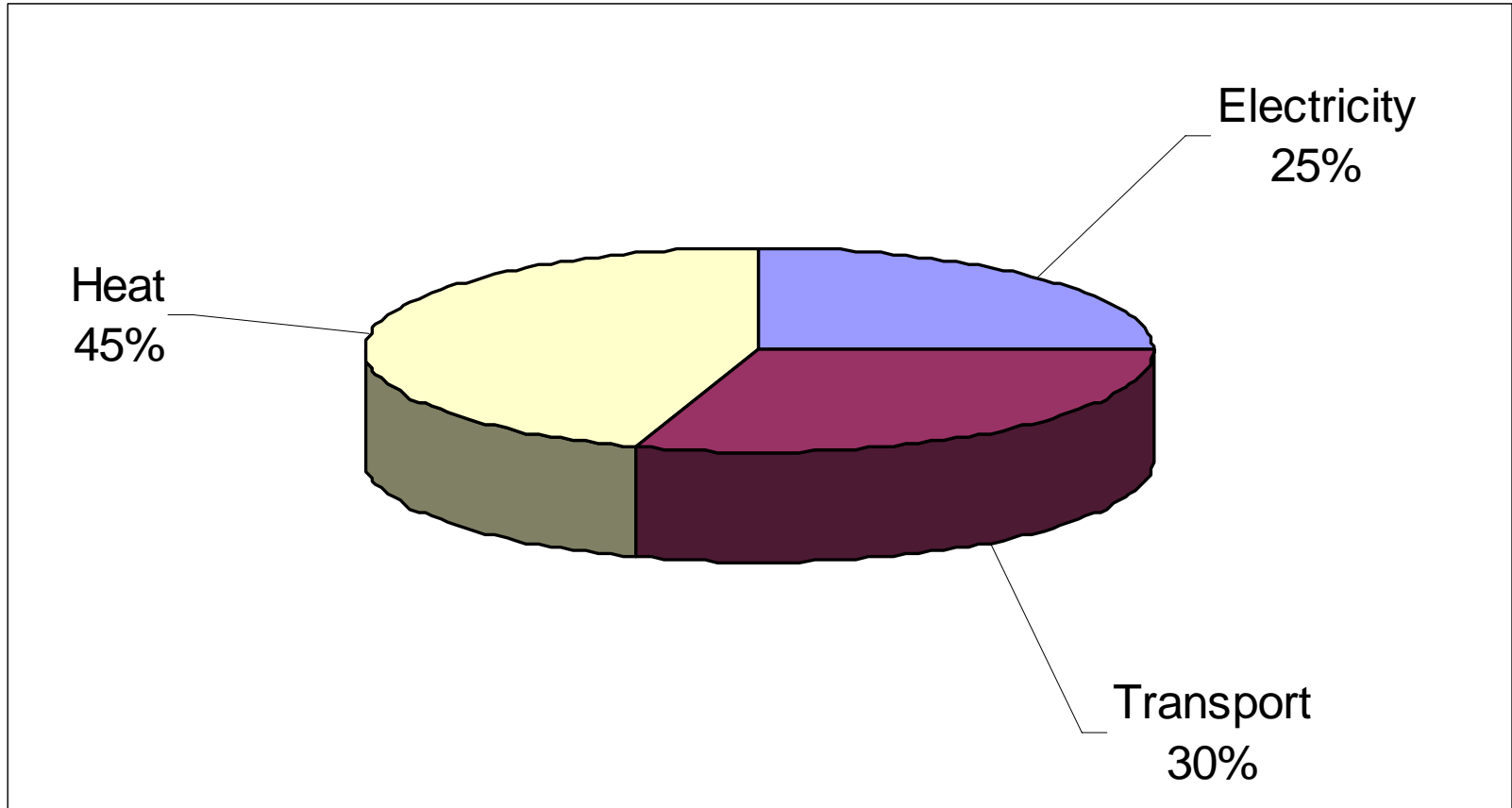
Energy Usage

Putting this in context

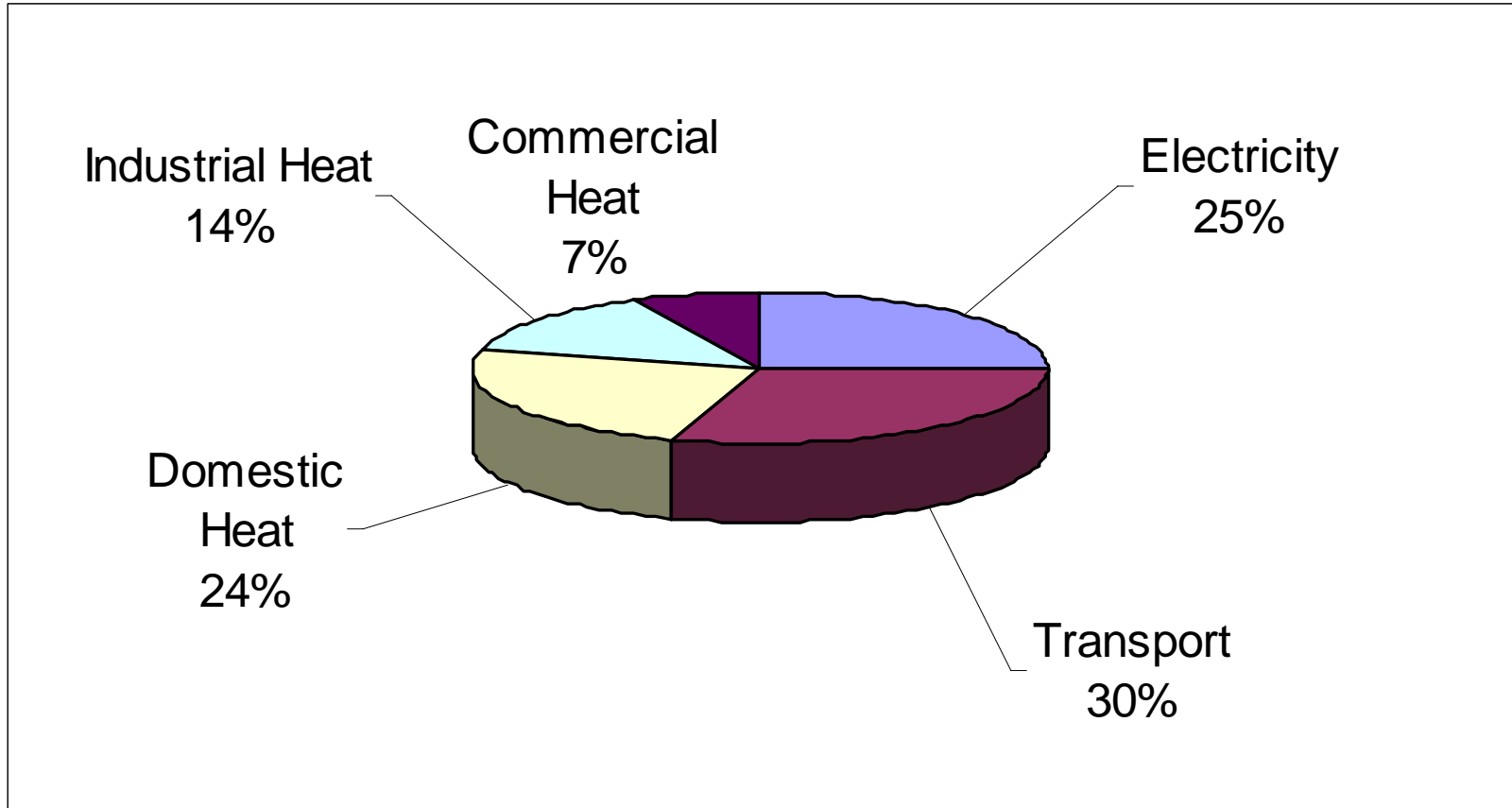
Of the total energy used approximately

- 25% for electricity
- 30% for transport
- 45% for heat (split 54:46 domestic and non domestic)

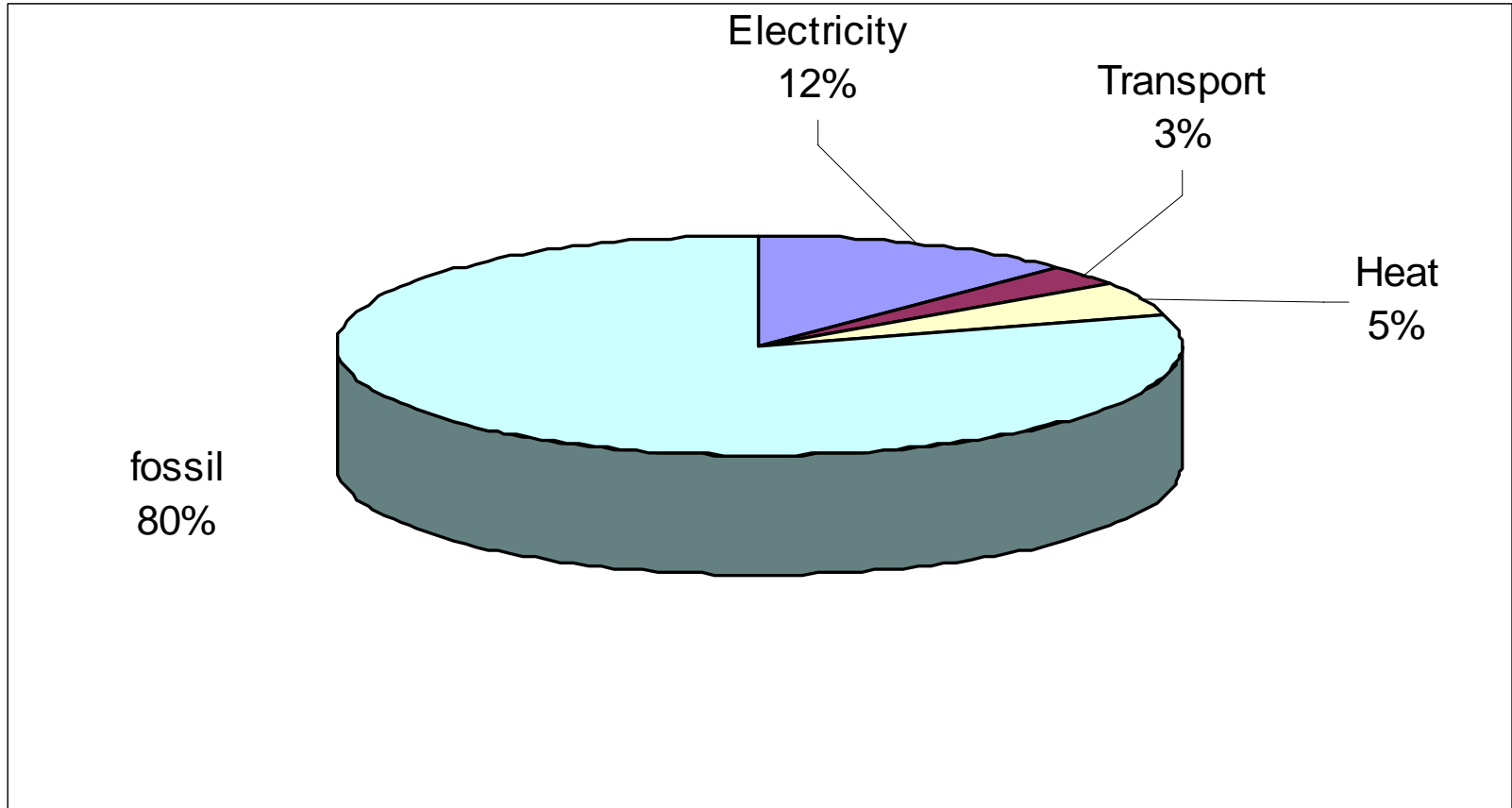
Scottish Energy Split



Domestic Heat Use



Renewable Generation



Renewable Energy Targets

So where are we today?

- 25% Renewable Electricity (50%)
- 1% Renewable Transport Fuels (10%)
- 0.6% Renewable Heat (11%)

Renewable Energy Actions

- FREDS 2007-2008
- REF 2008
- HES 2009
- Energy Assistance Package 2009
- Home Improvement Scheme 2009
- RAP 2009

Renewable Energy Actions

FREDS Heat Sub Group

- Published recommendations to ministers last year
- Reconvening to refine recommendations
 - Reflecting changes in last year

- Forum for Renewable Energy Development Scotland

Renewable Energy Actions

REF and RAP

- Renewable Energy Framework
 - Closed December 2008
- Renewables Action Plan
 - Plan for each technology
 - Builds on REF and FREDs reports
 - Due June 2009

Renewable Energy Actions

HES Executive Summary

- All lofts and wall cavities insulated by 2015
- All houses to have whole house packages by 2030
- Measures to incentivise and finance renewable heat
- Strategies for CHP and district heating

Renewable Energy Actions

Energy Assistance Package

- This is the new Central Heating Program
- Key element introduction of ASHP
 - Following results of the Renewable Heat Pilot

Renewable Energy Actions

Home Improvement Scheme

- Street by street energy efficiency package
- Concentrating on insulation
- 90,000 home target

What does the 2020 targets mean?

Renewable Electricity – 50%

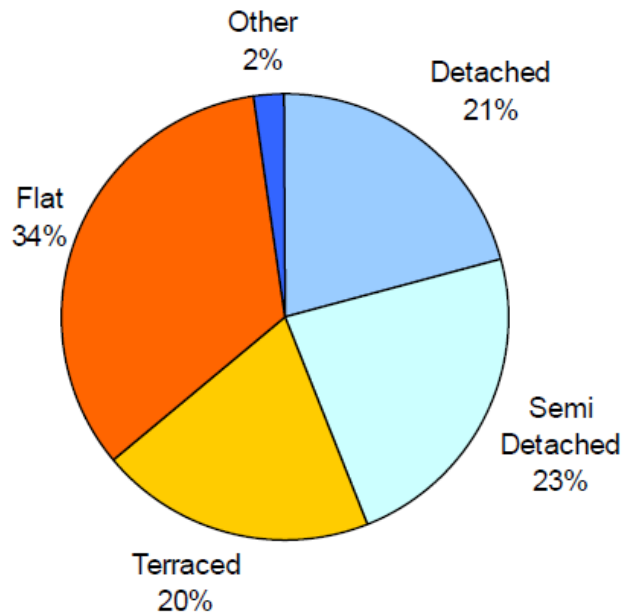
- Equal to Scottish homes having renewable electricity

Renewable Heat – 11%

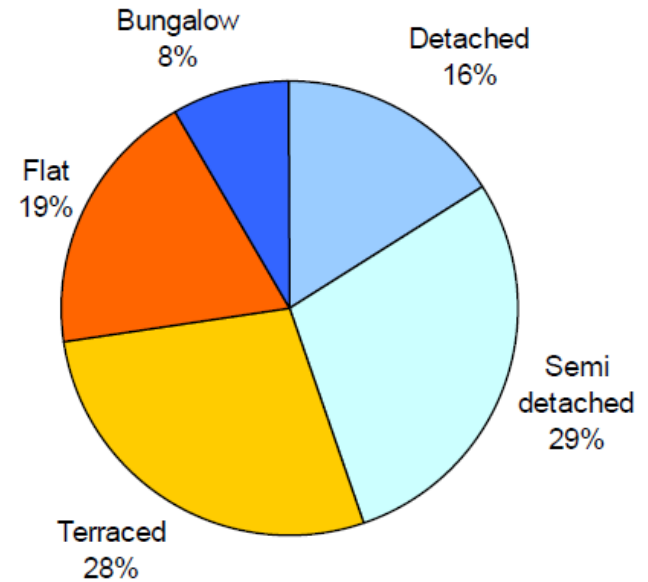
- Equal to 275,000 homes having renewable heat
- Equals 25,000 installations pa
- Grant supported level is 1200 approx

The North South Ready Reckoner

Scottish Housing Stock 2001



GB Housing Stock 2001



The North South Ready Reckoner

	North of Border	South of Border
RE Target	20%	15%
Electricity	50%	32%
Transport	10%	10%
Heat	11%	14%
Gas grid connection	85:66% Access:actual	90%
Grants	LCBP & SCHRI/CARES	LCBP
Incentives	FiT & RHI	FiT & RHI
Energy Efficiency packages	CERT/CESP/HIS	CERT/CESP
Renewables in new housings	SPP6 15%	Merton 10%



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