



**Scotland – a devolved nation
perspective
GSHPA Conference 2009**

**David Cameron
Chief Technical Officer**

The Forum for Scotland's Renewable Energy Industry



FREEDOM!



The Forum for Scotland's Renewable Energy Industry



What is Scottish Renewables?

- Member-led trade association
- Over 250 members
- NGOs, public bodies, communities & commercial
- Sectors - wind, marine, hydro, bio-energy and micro renewables
- Providing information to members
- Raising awareness among decision-makers
- Creating viable and sustainable markets for renewable technologies



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

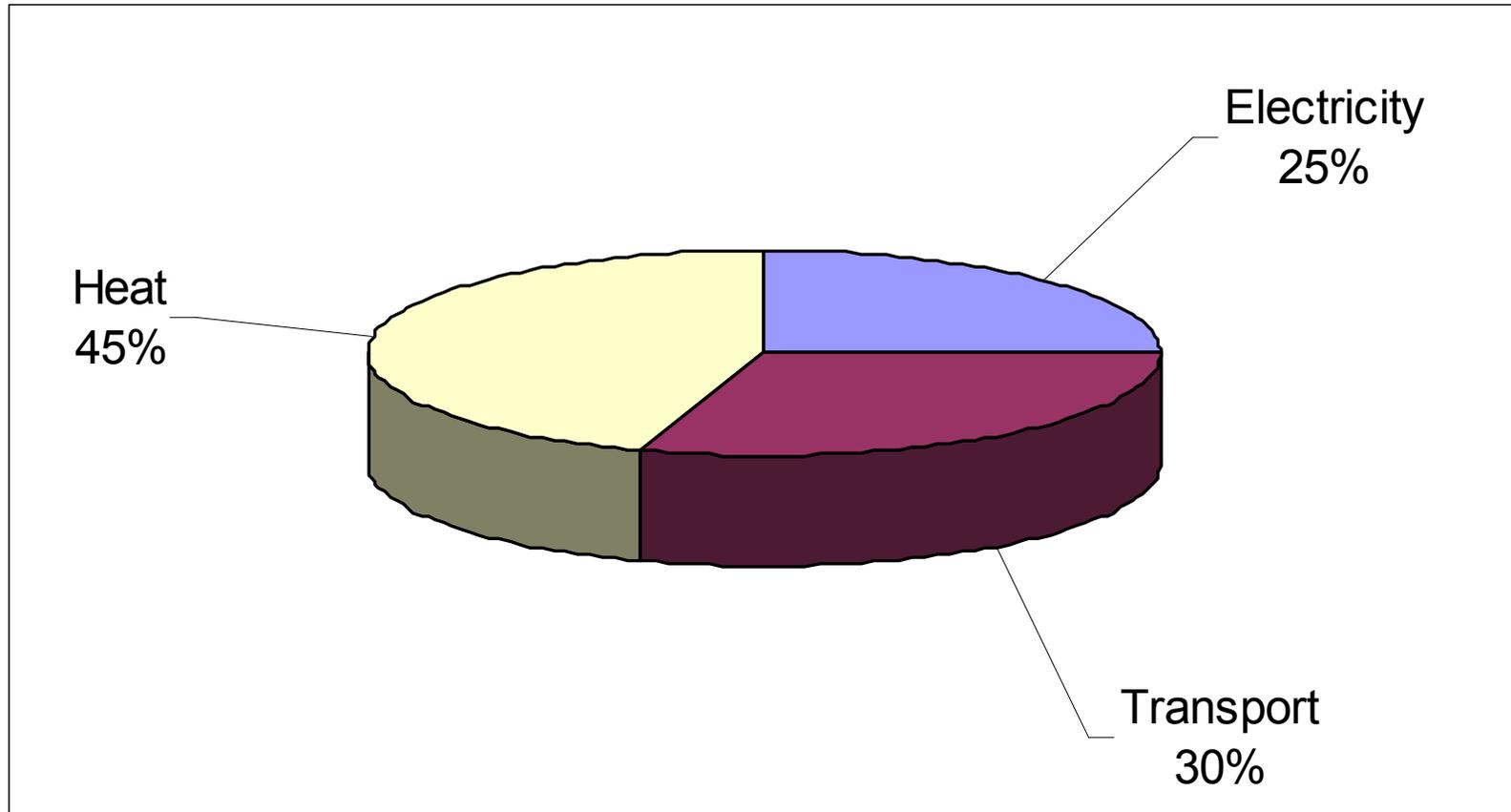
Energy Usage

Putting this in context

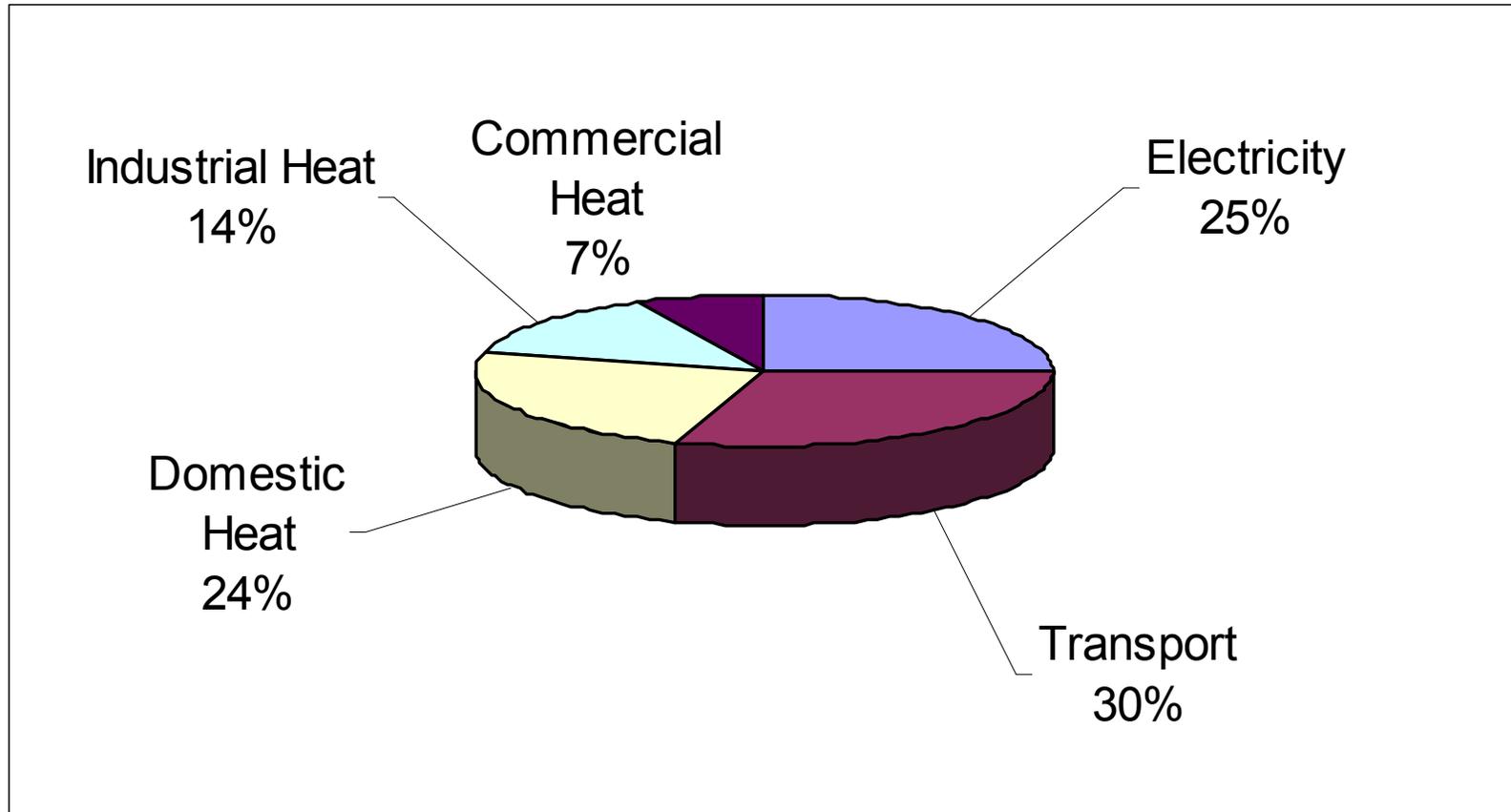
Of the total energy used approximately

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

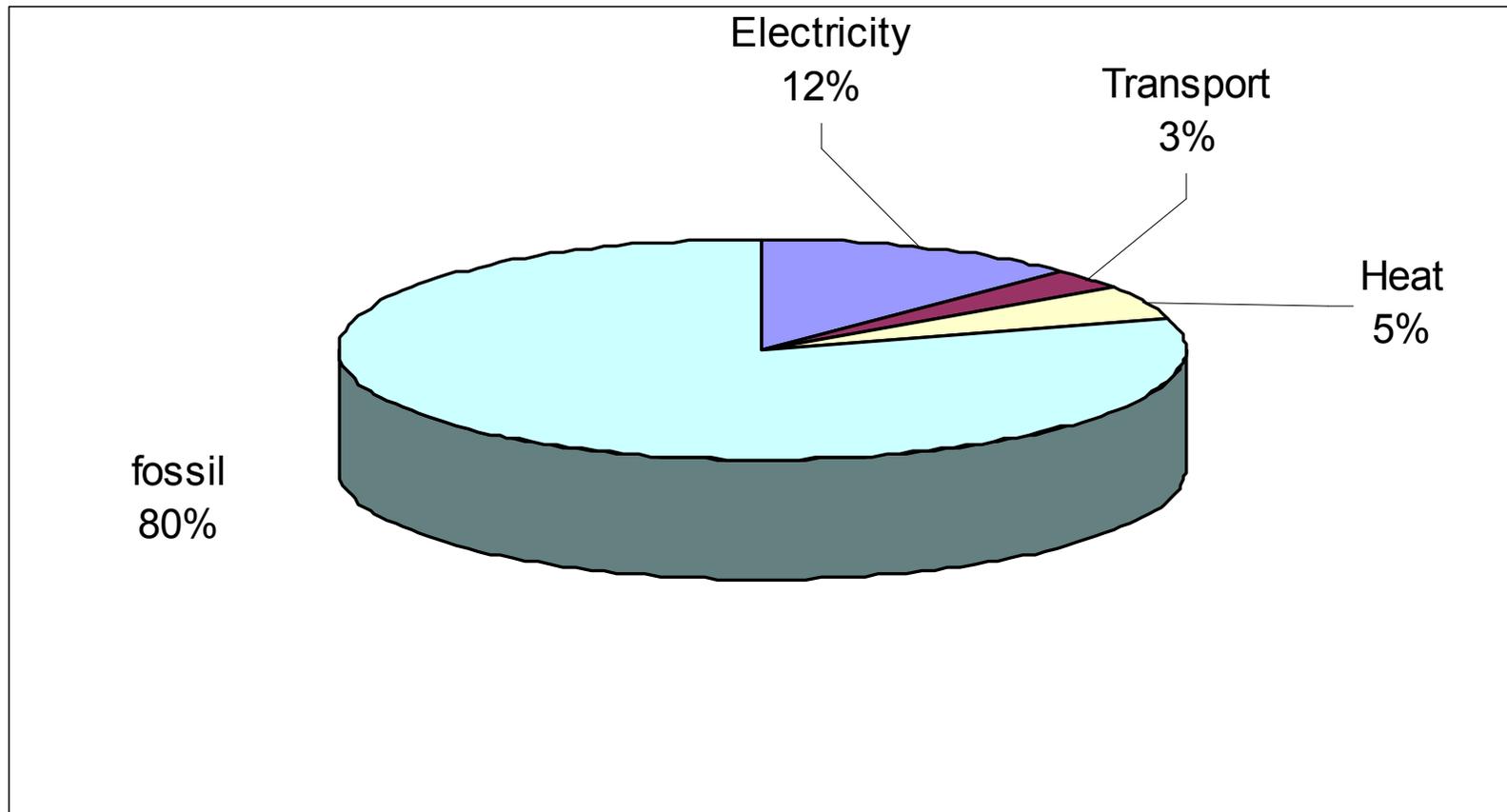
Scottish Energy Split



Domestic Heat Use



Renewable Generation



Renewable Energy Achievement

So where are we today?

- 25% Renewable Electricity (50%)
- 1% Renewable Transport Fuels (10%)
- 1.4% 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?

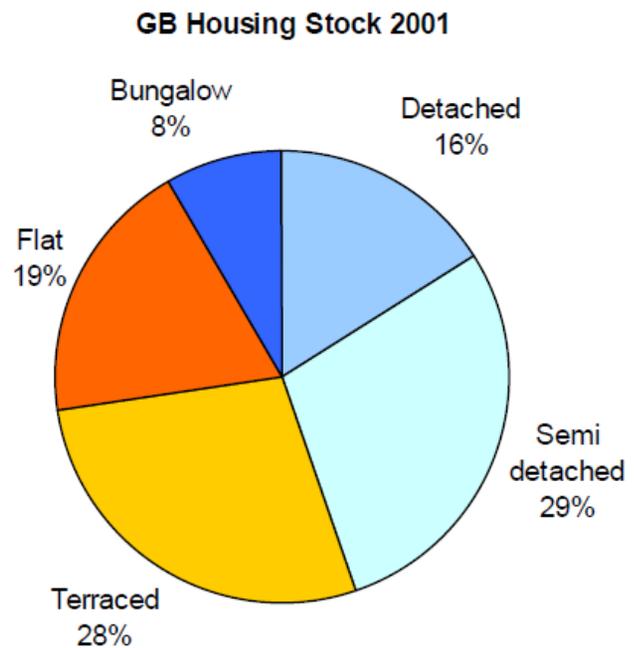
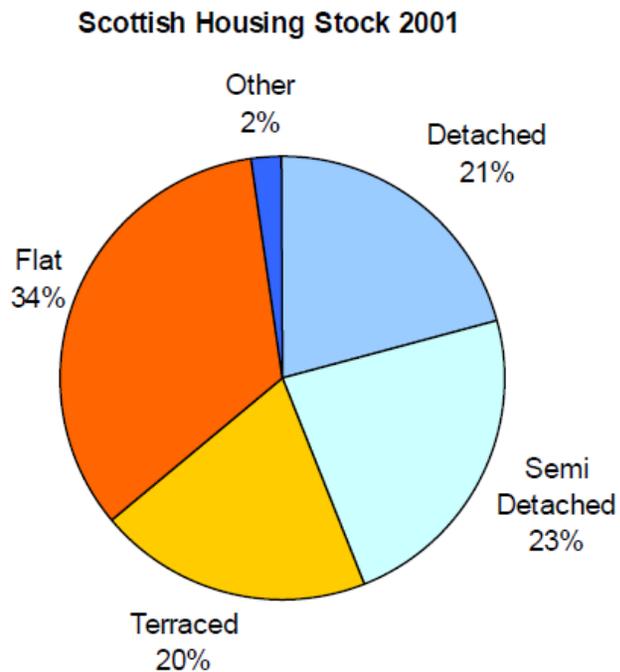
Renewable Electricity – 50%

- Equal to all 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



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
Future Incentives	FiT & RHI	FiT & RHI
Energy Efficiency packages	CERT/CESP/HIS	CERT/CESP
Renewables in new housings	SPP6 15%	Merton 10%

What will be the enablers?

Move from Grants to Tariffs

- New funding mechanisms
 - Feed-in Tariff (FiT) from 2010
 - Up to 5MW
 - Renewable Heat Incentive (RHI) from 2011
 - All scales

What will be the enablers?

Upskilling

- Skilled workforce
 - Trade bodies SNIPEF, Select, HVCA upskilling
 - Summit Skills developed occupational standards
 - Growth in number of colleges now providing training

This should be a bolt-on to existing skills

What will be the enablers?

Consumer confidence

- Needs reliable product
- Needs positive information
- Needs accredited workforce

What will be the enablers?

Accreditation must

- Give consumer confidence
- Protect industry
- Be cost effective and not overly bureaucratic
- Allow bona fide businesses employing properly trained individuals to install microrenewable products

Conclusion

Summary

- Challenge is huge in renewable heat
 - Nearly 10 fold increase required
- Challenge is achievable
 - Proposed support mechanisms
 - Developing workforce
 - High potential demand



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