

Research Fund for Coal and Steel (RFCS)

PolSCA Meeting 15 April

Alan HAIGH
Head of Unit DG RTD G.5

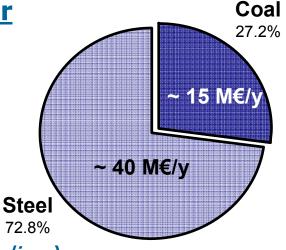




WHAT is the RFCS Programme?

A research fund with a budget of ~55 M€/year

- Promoting <u>industrial</u> research in the field of
 - Coal and Steel
- Open call for proposals for
 - Research projects (60% funding)
 - Pilot & Demonstration projects (50% funding) RFCS funding allocation
 - Accompanying measures
 - Deadline: in principle, September 15th of each year
- Outside the FP...yet closely co-ordinated & complementary





RFCS Information Day

Facts and Figures

- Typically 40 Million € per year for Steel ~= 30 Grant agreements
- Typically 15 Million € per year for Coal ~= 8 Grant agreements
- Approximately 350 Grant Agreement running at any one time
- 440 Million € invested in Coal and Steel research since 2003
- Good mix of Industry, academia and research centres
- Scientific, technical, innovative projects, well defined objectives
- Can be complimentary to other funding
- Typical funding, 1 to 2 Million €. Occasionally as large as 5 Million €.





WHO can participate?

- Any legal entity established in any of the Member States
- •Consortium size no minimum but typically 4 to 8 participants
- Not necessarily directly connected with the coal or iron and steel industries but the project has to be within the scope of the programme
- •Partners from Candidate or Third Countries are welcome (though not eligible for EC funding)





RFCS - COAL research: Funding distribution & activities

Total RFCS funding allocation for COAL projects from 2003 to 2011*: 136.6 M€







SOURCING

CONVERSION

26 M€

COMBUSTION

49 M€ 36%

- Coal mining
- CO₂ geol. storage
- Underground gasification

Coal preparation

- Coal gasification
- Synfuels

19%

Clean coal tech.

61 M€

- CO₂ capture
- Co-combustion

15 April 2011 (*) 2011 provisional figures

Research Fund

DG RTD G.5 – Research Fund for Coal & Steel (RFCS)

45%



RFCS Flagship projects

ULCOS

COMTES700

Component Test Facility for a 700°C Power Plant

- √ Testing of advanced materials
- ✓ Budget: 15 M€ (initial) 40% by RFCS
- √17 partners from 6 EU countries
- √ Final Objective:

n > 50% Coal Power Plant







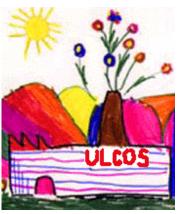


Host Plant: E-ON Scholven F. Gelsenkirchen (D) DG RTD G.5 – Research Fund for Coal & Steel (RFCS)

Ultra-Low CO₂ Steelmaking

- ✓ Selection of promising steelmaking routes
- ✓ Budget: 55 M€ co-funded by RFCS & FP6
- √ 48 partners from 13 EU countries
- **√Final Objective:**

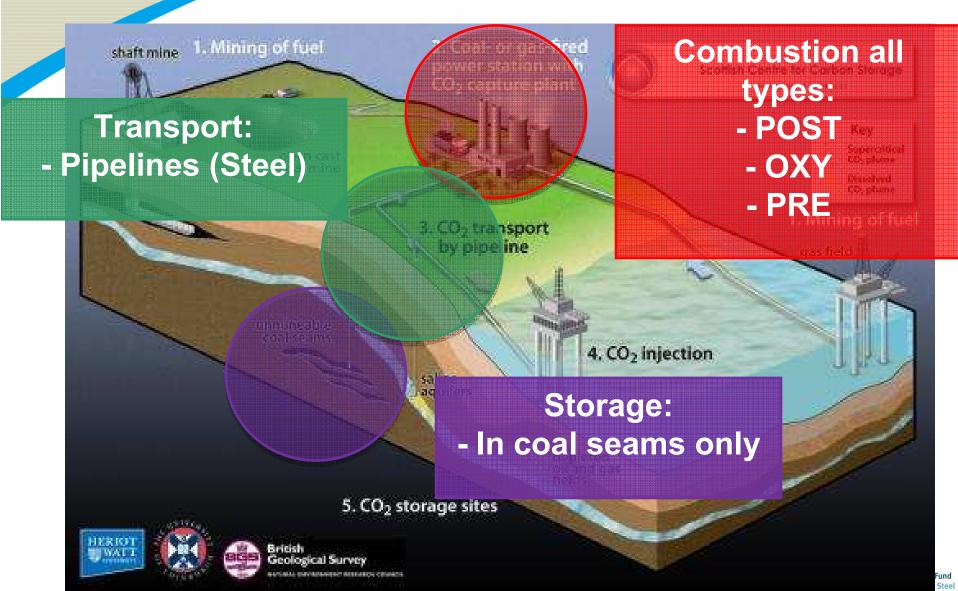
50% CO₂ reduction in steelmaking

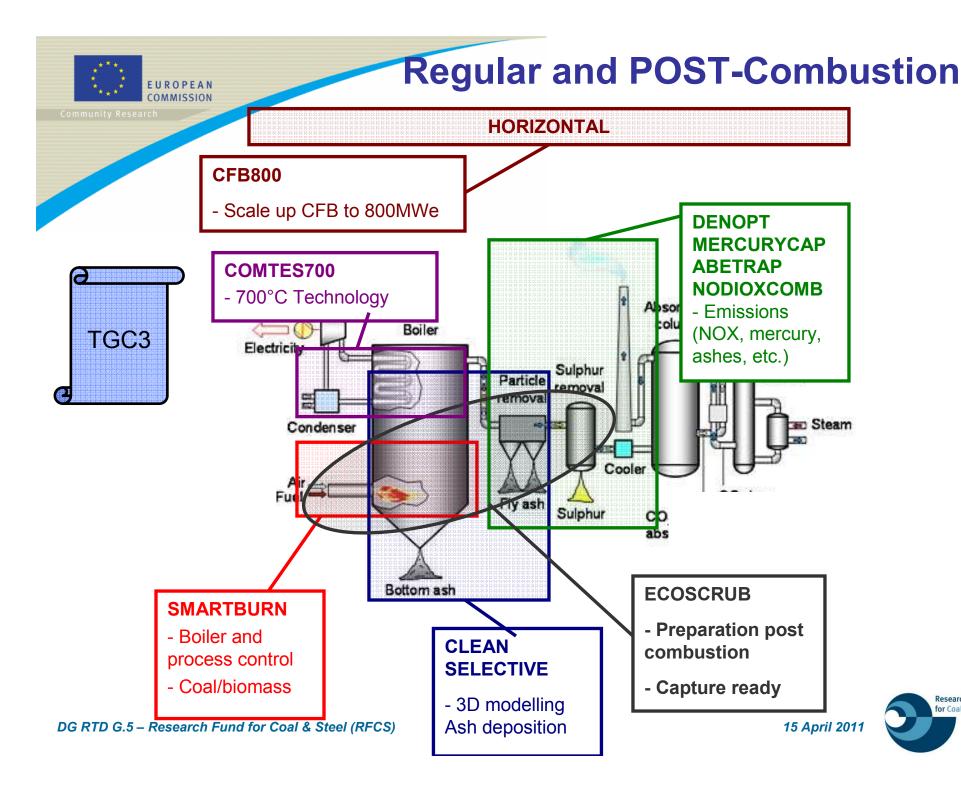




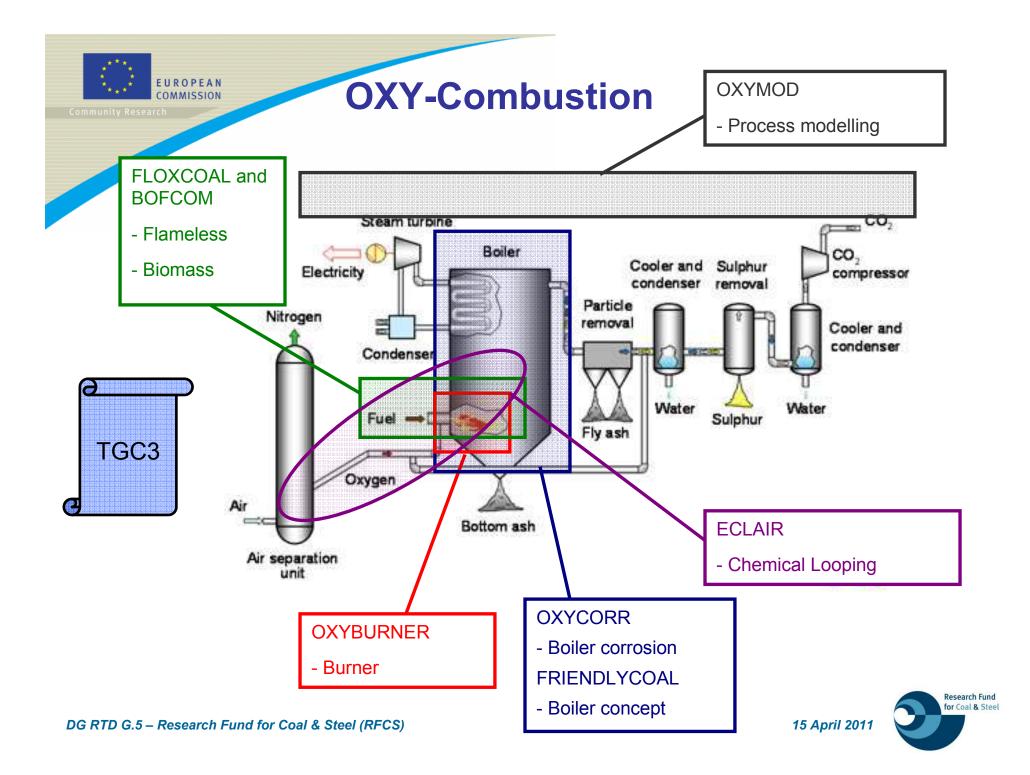


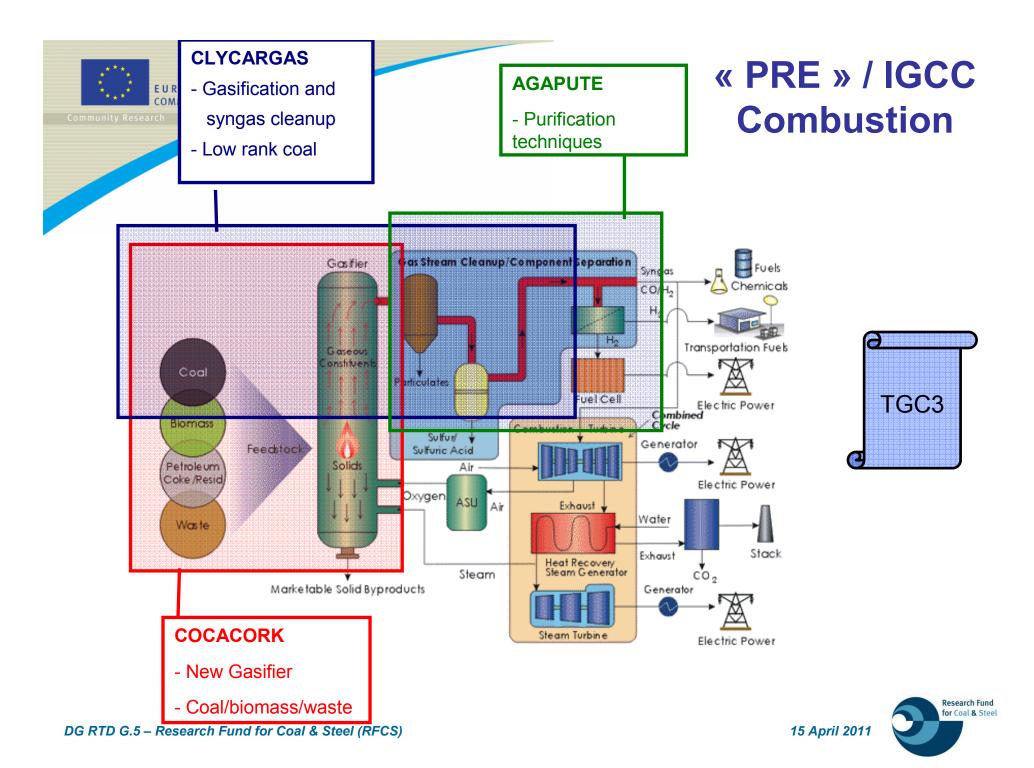
What we can do in RFCS?





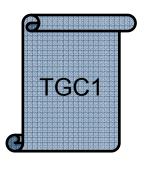
Research Fund







RFCS in Storage



CARBOLAB

 CO2 storage coupled with Enhanced Coal Bed Methane (methane recovery) in unmineable coal mines

COALSWAD

Behaviour of coal for CO2 sequestration and methane production





RFCS Weblinks

- RFCS website:
 - http://cordis.europa.eu/coal-steel-rtd/
- Information Package
 - http://cordis.europa.eu/coal-steel-rtd/infopack en.html
- Latest published technical reports:
 - http://bookshop.europa.eu/
 - http://cordis.europa.eu/library/
- Synopsis of ongoing RFCS projects:
 - http://cordis.europa.eu/coal-steel-rtd/synopsis_en.html

