

Nice, 12th June 2012

21st EGTEI Meeting

Iron & Steel sector in GAINS model -WORK IN PROCESS-

Background

The current representation of I&S Industry is incorrect in GAINS, with especially:

- ❖ Activity data (production per process) are derived through PRIMES in an unclear process with incorrect output; analysis of these data have proven wrong figures
- ❖ Unabated emission factors are very questionable with different values from one country to another
- ❖ Abatement techniques foreseen are not based on real techniques; associated emission factors are not consistent with numbers observed throughout the European I&S industry
- ❖ No possibility to evaluate TOTAL emissions from I&S processes

New proposal for the modelling of I&S emissions

To improve the model and ease further reviews, EUROFER with the support of EGTEI and IIASA, worked on a new representation of I&S in a “**stand alone box**”.

Input data will be:

- Country’s activity data;
- Country’s % of abatement technique implemented;

Thus, there will be:

- No more derivation of the activity through PRIMES;
- No distinction between *combustion* versus *process* related emissions. All emissions related to process gases would be accounted in this new representation

How did EUROFER work?

The basis for the structure of this representation are the **I&S BREF** documents.

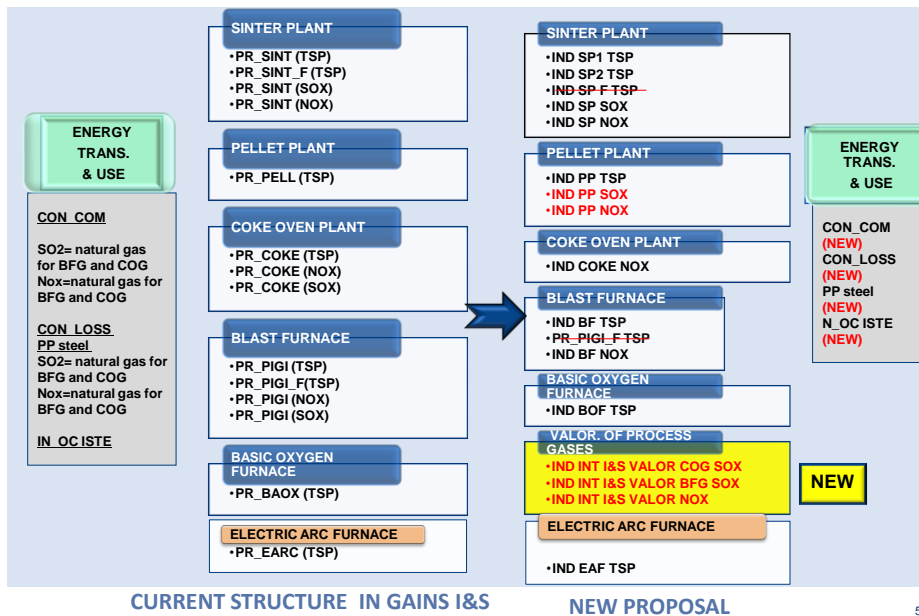
However, in some cases:

- BREF does not provide data on the emissions (particularly unabated emissions);
- The scope of the sources considered in the GAINS model is different than that one available in BREF;

The data proposed in the model are thus derived taking these specificities into account.

The data set remains a theoretical representation of I&S emissions.

New structure defined for I&S sector



5

Latest achievements

- ❖ 28th February 2012 bilateral meeting EUROFER/IIASA
- ❖ March-May 2012 : Data analyse and complementary information provided by IIASA
- ❖ 4th June 2012: Data submitted to IIASA:

New structure: EUROFER has redefined GAINS codes for I&S sector including both emissions from process and combustion. From the current status of the model all codes related to I&S sector (both process and combustion) should be removed assuring no double counting. The consistency among the process must be kept, IIASA will modify the model accordantly.

Abatement techniques and emissions factors: Following IIASA request we have defined different levels of abatement including techniques description and emissions factors on basis of the I&S BREF 2012.

Associated abatement efficiency: For each technique the associated abatement efficiency has been included.

Next steps

- ❖ Activity data by countries and processes
(from 2005 to 2030 every 5 years)
- ❖ Implementation rate of techniques by countries
(from 2005 to 2030 every 5 years)
- ❖ Costs linked to each technique

Timing:

- Data and implementation rates foreseen to be shared with IIASA by mid-July 2012
- Costs information in function of the data available is planned to be provided by next fall.