



UNECE Convention on Long-range Transboundary Air Pollution

New Structure of Power Plant Sector in GAINS Europe

Unofficial presentation

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21st EGTEI Meeting - Nice, June 12, 2012

1



Update of the Gains Model structure

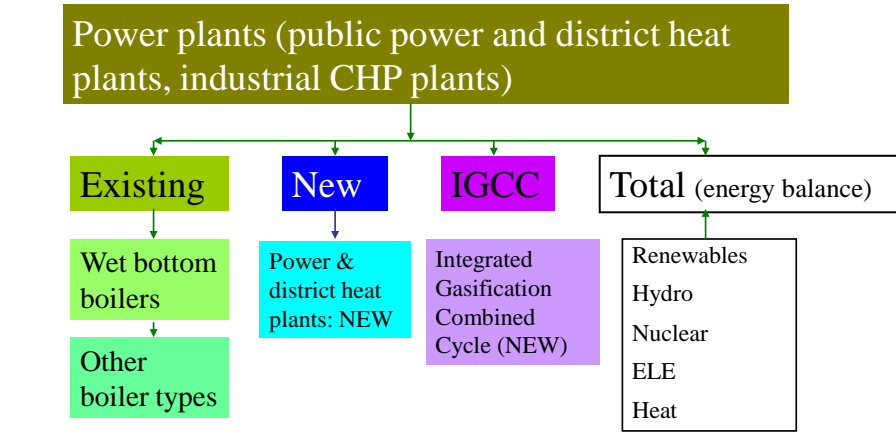
The structure of the GAINS Model is updated, time by time, with purpose of maintaining the performances of the Model at the highest possible level, with respect to representation of the several sectors and their characteristics.

According to the evolution of the sector technology, changes are made in the structure to properly reflect the characteristics of the sector, in terms of activity level, abatement technology, process, emission factors, to calculate emissions with the most appropriate level of accuracy.

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2

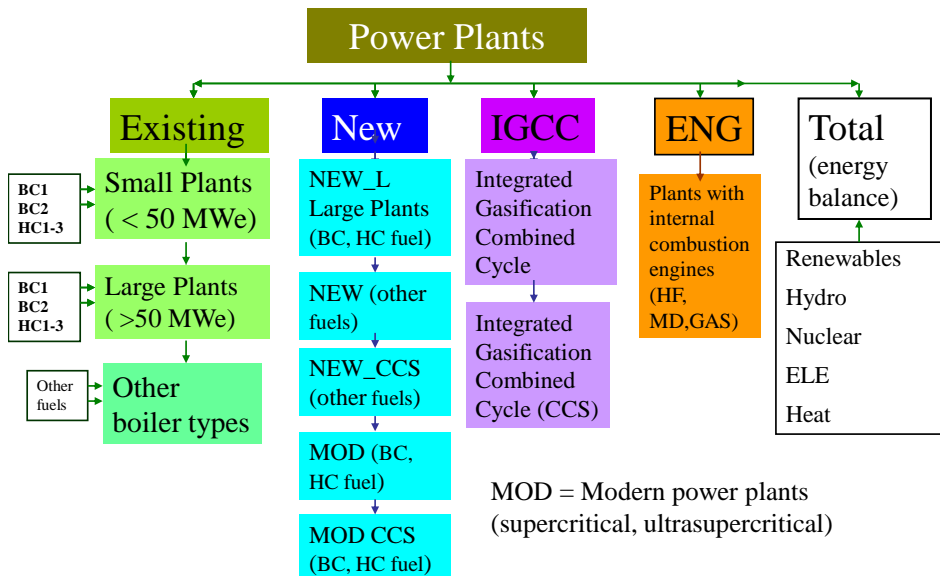
The Power Plant Sector – structure (Gothenburg)



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3

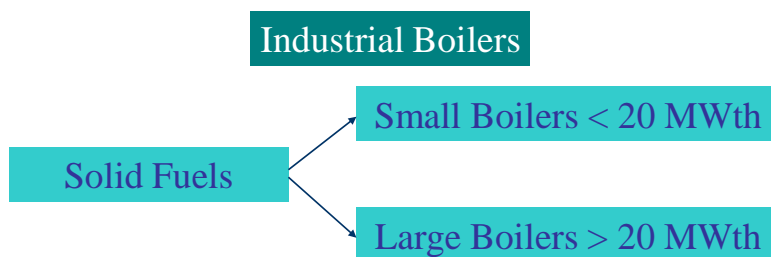
The Power Plant Sector – New structure



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4

The Industrial Boilers – New structure



Other Fuels

IN_BO_CON	Industry, transformation sector, combustion in boilers
IN_BO_CHEM	Industry: chemical industry (combustion in boilers)
IN_BO_PAP	Industry: paper and pulp production (combustion in boilers)
IN_BO_OTH	Industry: other sectors; combustion of fossil fuels other than brown coal/lignite and hard coal

Conclusions

The new structure of the Power Plant sector (and the Industrial Boilers sector) in the GAINS Model will provide a more accurate emission calculations. Indeed, disaggregating the sector in sub-sectors, allows the assignment of the most appropriate emission factor to each combination subsector-fuel-technology.

The IIASA web site on GAINS Model

<http://gains.iiasa.ac.at/>