ECO**FYS**



Allocation in phase 3 of EU ETS

A SUSTAINABLE ENERGY SUPPLY FOR EVERYON

Presentation of allocation rules

2 May 2011

Scope of the workshop

- This workshop is about free allocation
- The following topics will **not** be addressed in this workshop
 - Auctioning
 - Monitoring and Reporting issues
 - Aviation
 - Exclusion of small installations
 - Transitional free allocation for modernisation of electricity generation (Article 10c)

A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

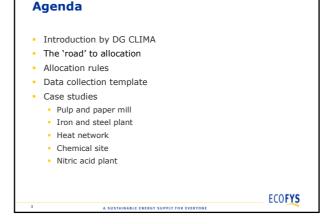
ECOFYS

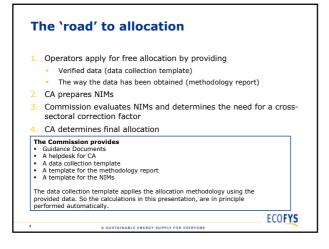
Disclaimer and copyright

- This workshop is conducted in the framework of a project for DG Climate Action. However, the Commission is not responsible for the correctness, completeness or quality of the information provided.
- The contents of these slides are based on the guidance documents as endorsed by the Climate Change Committee on 14 April 2011 and by no means substitute the legal text
- Any values used in examples do not necessarily reflect existing situations and are only meant for illustrative purposes.
- Situations and are only meant for illustrative purposes.
 Ecofys makes no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability with respect to the information in this presentation. Any reliance you place on such information is therefore strictly at your own risk and Ecofys is not liable for any damage whatsoever arising from the use of this information
- The copyright of this presentation is reserved. It may therefore not be used for any purpose without the explicit permission of Ecofys

A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

ECO**FYS**





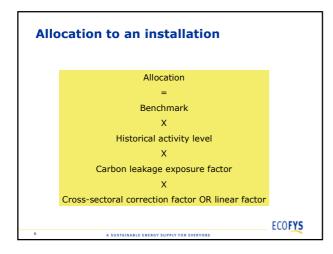
The following documents describe the allocation methodology

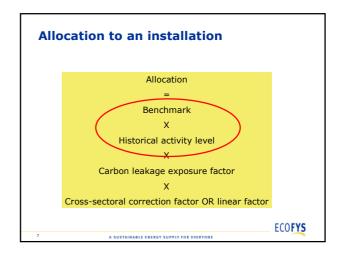
 Commission Decision provides the Community Implementation Measures (CIMs) = legal context for application of allocation rules

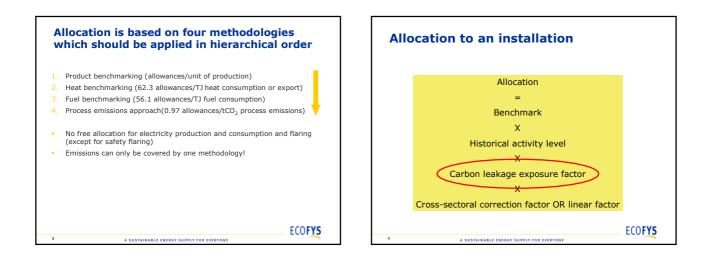
Guidance documents provide further guidance for correct and harmonized application:

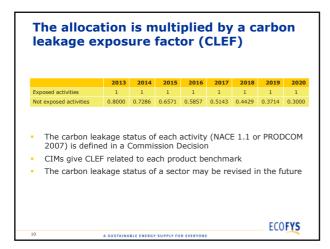
- 1. General guidance
- Guidance on allocation methodologies
 Guidance on data collection
- Guidance on verification
- Guidance on carbon leakage
- 5. Guidance on carbon leakage
- 6. Guidance on cross-boundary heat flows
- 7. Guidance on new entrants/closures
- 8. Guidance on waste gases and process emissions
- 9. Sector specific guidance

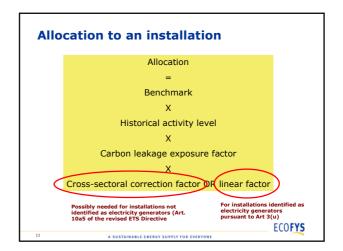
A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE



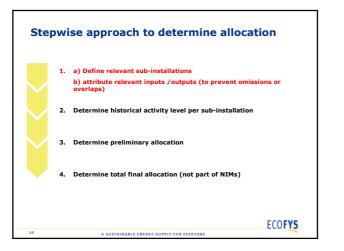


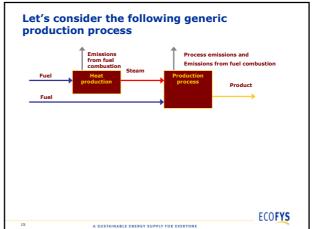


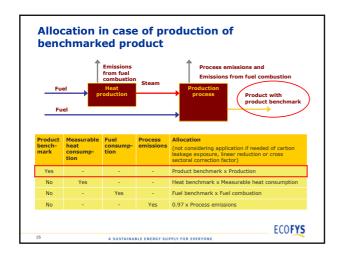


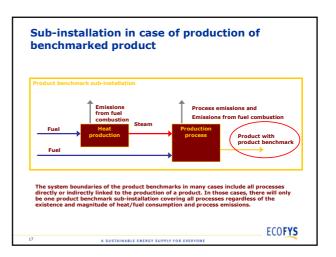


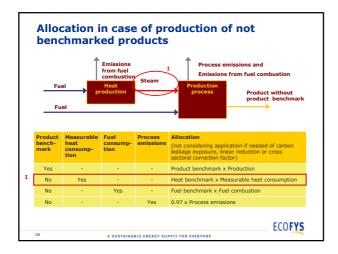


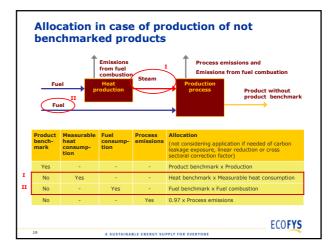


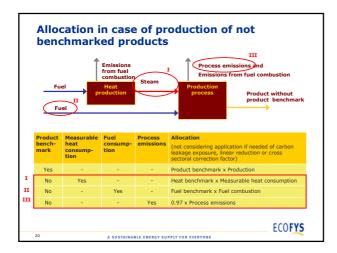


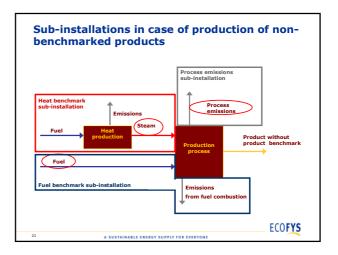


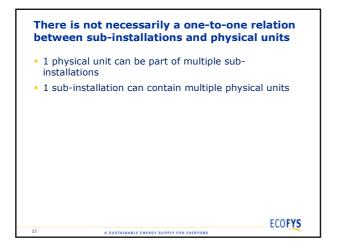


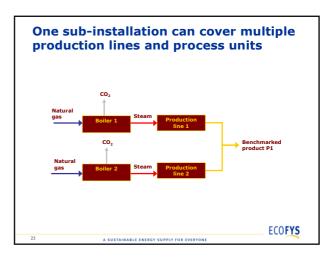


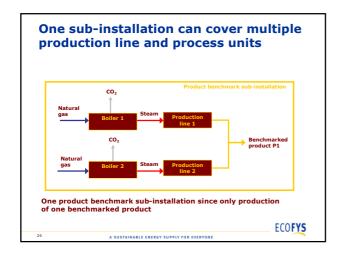


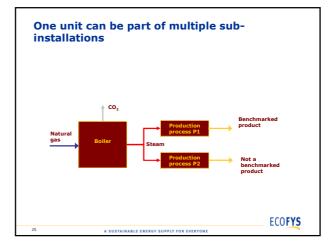


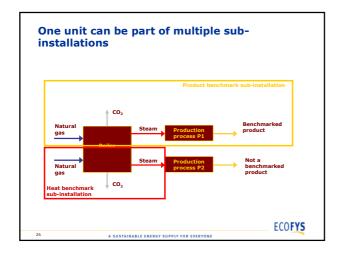


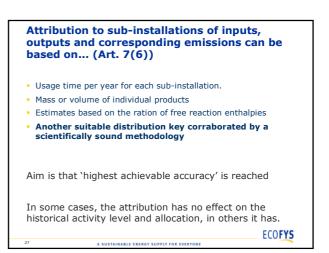


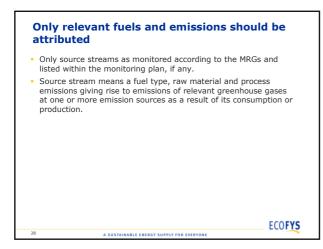


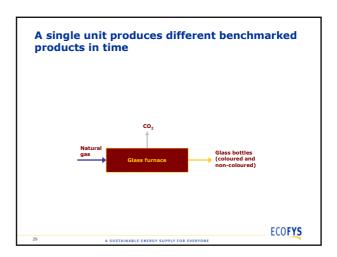


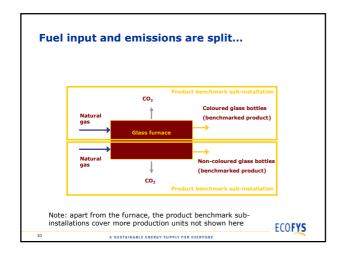


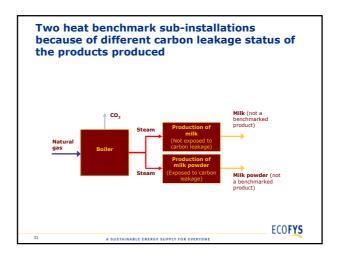


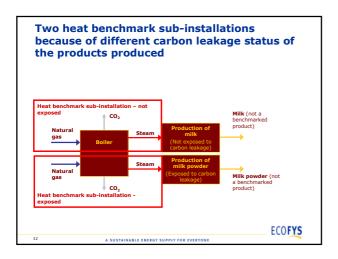


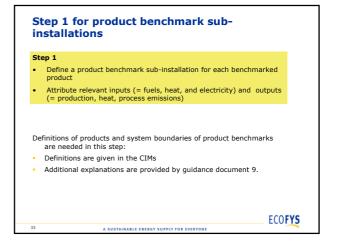


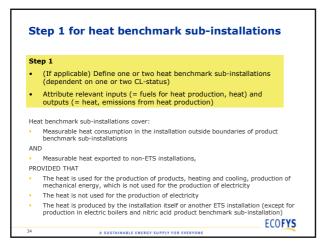


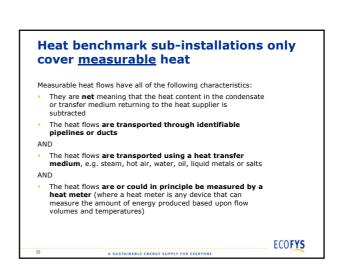


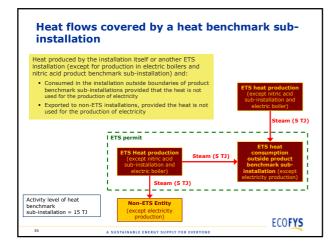


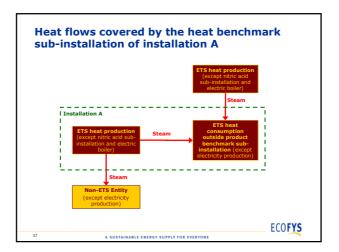


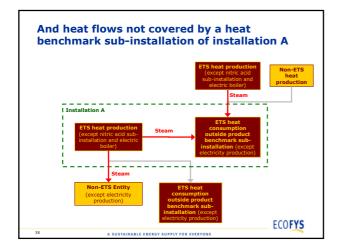


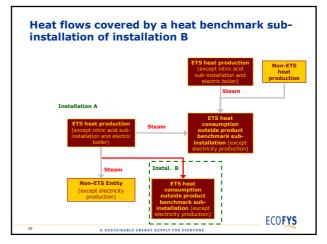


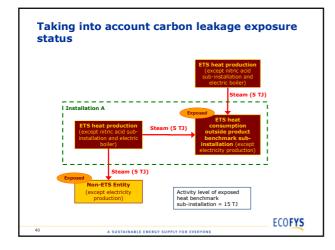


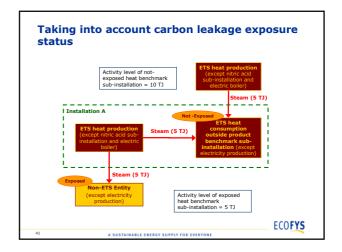


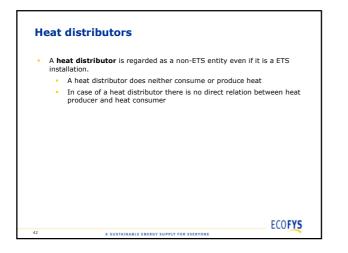


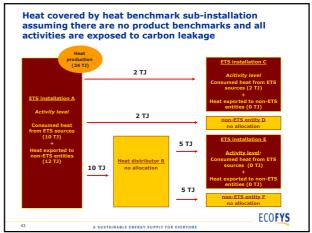


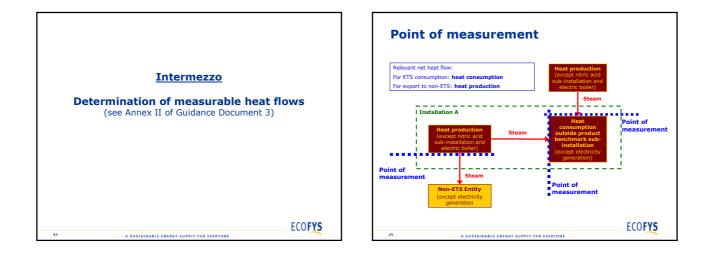


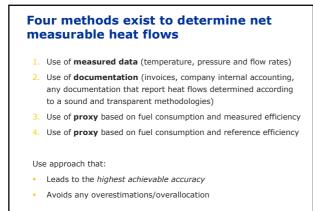




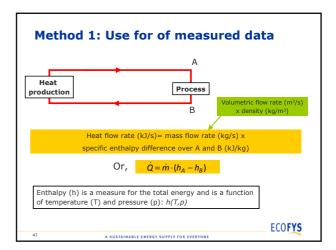


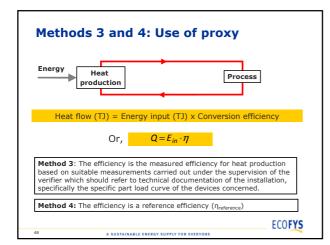


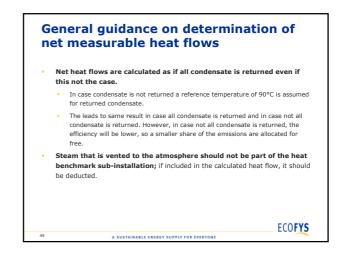


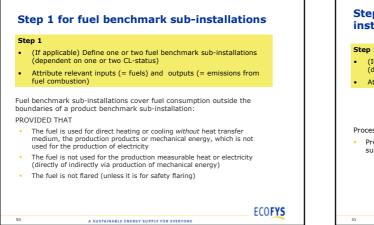


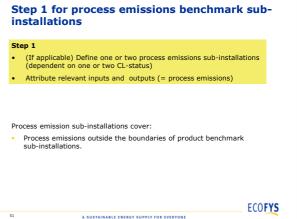
A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

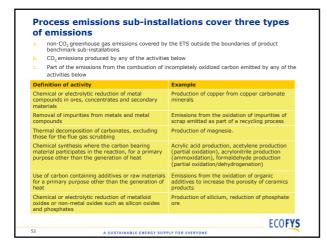


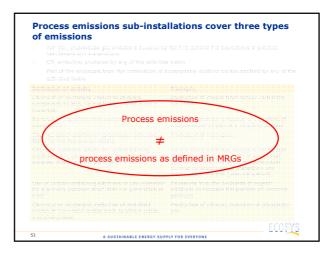


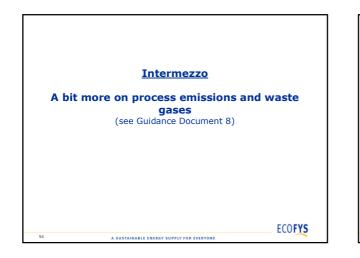


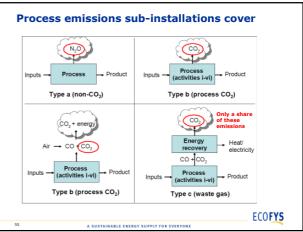


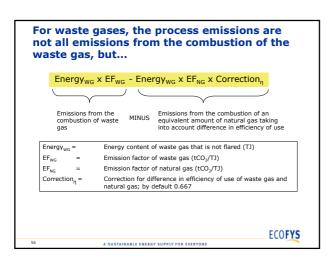


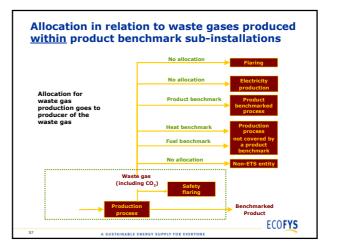


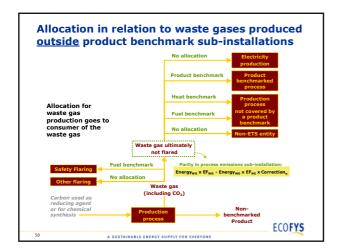


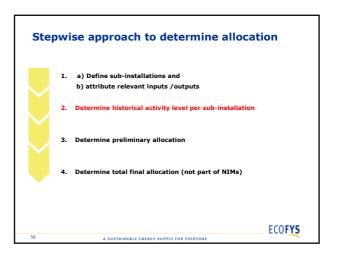


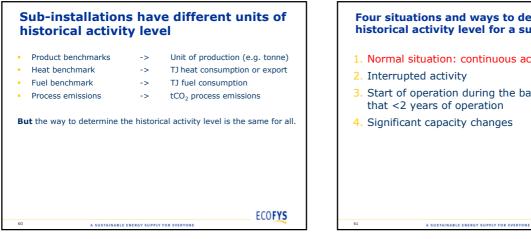


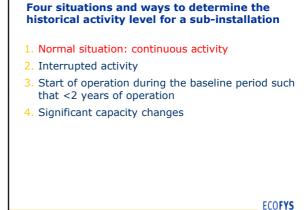


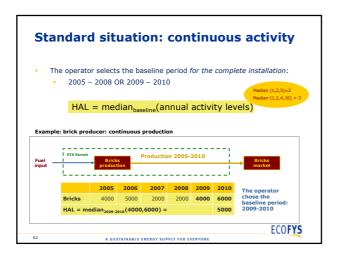


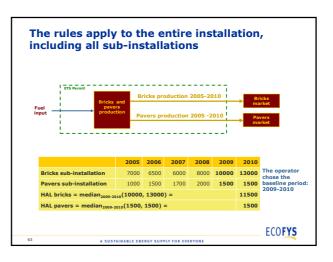


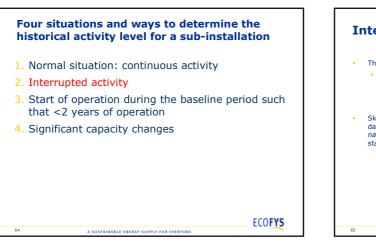


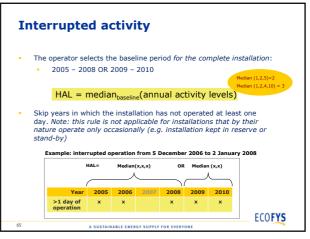


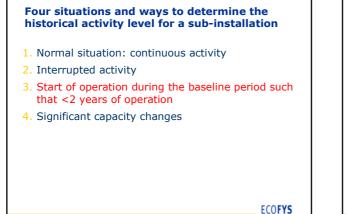


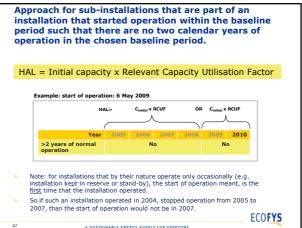












The relevant capacity utilisation factor will be estimated by the operator but eventually set be the CA Based on: The installations intended normal operation

- The maintenance cycle
- Common production cycle
- Energy efficient techniques (for fuel and heat benchmark subinstallations)
- Greenhouse Gas efficient techniques (for process emissions subinstallations)

A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

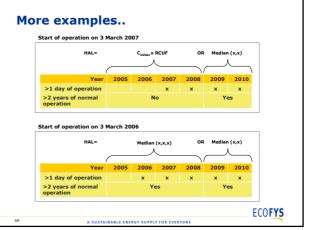
Data quality requirements:

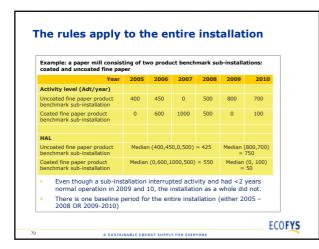
 $\ensuremath{\mathsf{Plausibility:}}$ Should be checked against typical utilisation rates in the sector concerned

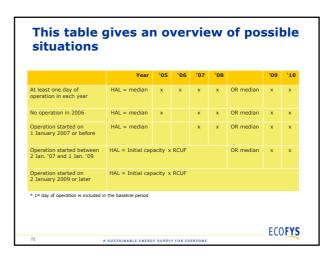
A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

68

Values > 100% should not be accepted Should be independently verified







Four situations and ways to determine the In case of significant capacity changes.. historical activity level for a sub-installation $HAL = HAL_{initial} + HAL_{change}$ 1. Normal situation: continuous activity 2. Interrupted activity HAL_{initial} = HAL related to capacity before change 3. Start of operation during the baseline period such HAL_{change} = HAL related to changed capacity that <2 years of operation How to determine capacity? 4. Significant capacity changes What is a significant change in capacity? How to determine HAL_{initial} and HAL_{change}? ECOFYS A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

Capacity

74

Capacity is needed for

- Product benchmark sub-installations (for determination of SCUF)
- Sub-installations of on installation that operated <2 years in the baseline period
- Sub-installation before and after a significant capacity change
- There are two ways to determine capacity:

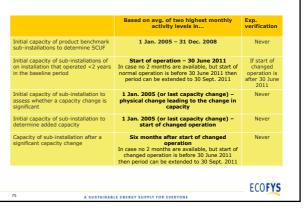
Average of 2 highest monthly activity levels in a period x 12 months per year OR

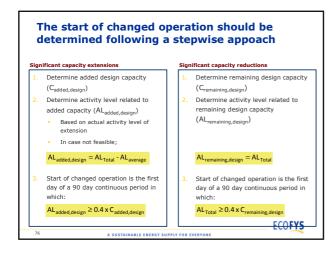
Experimental verification (48 hours continuous test)

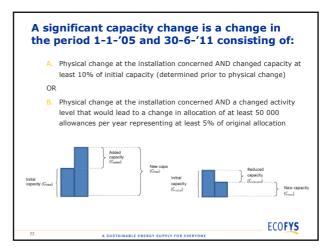
A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

ECOFYS

Overview of when to use what method









- There should be a causal relation between physical changes and capacity changes
- A physical change can only lead to one capacity change per sub-installation
 One significant change in capacity can be the result of multiple physical changes
- There can be a long time between the physical change and the significant change in capacity
- Physical change in the baseline period could lead to capacity change after the baseline period.
- Measures that exclusively aim at increasing efficiency and not increasing output should not be regarded as physical changes.

78

A SUSTAINABLE ENERGY SUPPLY FOR EVERYONE

