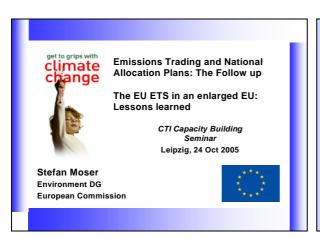
Session 3 • Emissions Trading and National Allocation Plans	
EU Emissions Trading System in an Enlarged EU	91
Stefan Moser	
Implications of the Linking Directive: Market Strategies for CEE/CIS Actors	93
Thomas Forth	
Implications of the Linking Directive: Market Strategies for CEE/CIS Countries	98
Dr. Roland Geres	
CO ₂ Trading – Insights from the Trading Floor	101
Tim Czwartynski Udo Wappler	
Implementation of EU Monitoring and Reporting Guidelines : Requirements and Current Practices in Germany	93 98 101 ines :
Dr. Jürgen Landgrebe	
Are the New EU Member States Ready for Kyoto First Commitment Period Trading?	112
Dr. Tiit Kallaste	

EU Emissions Trading System in an Enlarged EU Stefan Moser

European Commission, DG Environment



The EU emissions trading scheme

- ✓ EU ETS started on time
- ✓ As of 1 January 2005, nearly 12,000 energy intensive installations across EU-25 must monitor their CO2 emissions and surrender an equivalent number of allowances
- ✓ By far the largest emissions trading scheme in the world to date
- First major building block towards an international carbon market is therefore in place
- EU ETS gives emissions reductions a value and extra emissions a cost
- ✓ Will encourage new and more effective existing technologies that reduce emissions.
- ✓ Will contribute towards fulfilment of the Kyoto Protocol

2

Slide 1

State of play

- Phase I allocation: as of 20 June 2005, Commission has now made decisions on all 25 national allocation plans
- As a result of Commission scrutiny, proposed allocations were cut by over 290 million allowances for the first trading period 2005-7
- A total of close to 2.2 billion allowances will be put into circulation annually 2005-7
- An increasing number of national electronic registries are up and running (currently 11), over half of the allowances to be allocated in 2005 are already credited to companies
- http://europa.eu.int/comm/environment/ets: EU registries system homepage, where information on all registries and covered installations is available

Slide 2



The next steps (1)

- First compliance cycle is running:
- 31 March 2006: deadline for submitting verified emissions data
 - If deadline missed, Community transaction log will block transactions out of operator holding account
- 30 April 2006: deadline for surrendering allowances equal to 2005 emissions
 - If deadline missed, aside from financial penalties, Community transaction log will automatically publish the list of all noncompliant installations on 15 May

4

Slide 3



The next steps (2)

- Remaining registries need to go online, so as to ensure wider participation in the market
- Discussions on linking with other trading schemes taking place (e.g. Norway)
- Preparations for phase 2 (2008 to 2012) already underway
- Scheme will automatically expand with enlargement, as of the date of accession (Bulgaria and Romania)
- Commission preparing a review by mid-2006 that will (largely) focus on post-2012 EU ETS

Slide 4



What can be changed when?

- Commission will review the Directive by 30 June 2006 and make a legislative proposal, if appropriate
- The Directive itself can only be amended through "codecision" (approximately 2 years, plus implementation time)
- Therefore, the Directive cannot be amended prior to the submission of the second round of NAPs due by 30 June 2006
- So legal basis of 2nd round allocation will be essentially the same as for 1st round, but we will have 1st round experience

6

Slide 5



Review: non co-decision route

- Relevant for 2008-12 period
- Commission looking to issue further guidance for the 2008-12 period by the end of 2005
 - Fewer administrative rules, more confidence in a well-designed market (example areas: new entrants, closures, transfer rules)
 - Clarify the definition of combustion, and therefore the installations covered by the Directive
 - Assess characteristics of smaller installations
- · Commission is reviewing the Monitoring and Reporting guidelines
 - Taking into consideration experience to date on using the guidelines

 - Improving accuracy wherever possible
 Looking into possibilities for simplifying procedures for small
 installations and biomass installations



Review: co-decision route

- Primarily relevant for post-2012 periods, but earlier implementation possible if technically feasible and market has sufficient notice
- · Relevant areas:
 - Allocation rules may need more predictability and certainty:
 - stable baseline years
 - · longer allocation period
 - derive future allocation from past allocation
 - Accreditation and verification may need further harmonisation
 - The coverage of the scheme may be expanded, regarding further sectors and gases

Slide 7



Experience to date

- NAP process has been time-consuming in every Member State for several reasons
- Next time will be easier: installations covered will be known, more and better data will be available, companies will better understand emissions trading, and first solution serves as a benchmark
- Commission scrutiny has turned out to be crucial it may have been the decisive factor ensuring scarcity and an environmental benefit in the first trading period
- Ex-post adjustments and over complicated administrative rules undermine the certainty that companies need for the instrument to work properly and deliver cost-effective emission reductions
- Don't aim for or expect perfect allocations: companies' actual situations will always be best known to themselves, and not to governments

Slide 8



Concluding thoughts

Looking outwards:

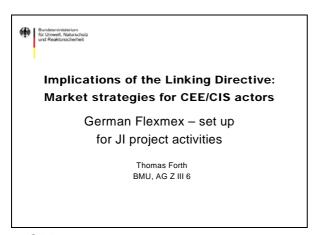
- The world is watching the performance of the EU ETS
- Market-based instruments, including the EU ETS, are essential in the post-2012 climate policy development
- ✓ A simpler scheme will be more likely to fulfil its promise Looking inwards:
- \checkmark EU ETS has made Member States think harder about how they are actually going to meet their Kyoto obligations - in more sectors than just those covered by the EU ETS
- ✓ As a result, some Member States need to focus on making use of the Kyoto Protocol's project mechanisms
- Companies need to focus on verification arrangements and ensure they are ready to make use of the market

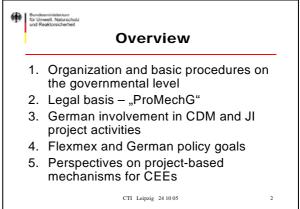
Slide 9

Implications of the Linking Directive: Market Strategies for CEE/CIS Actors

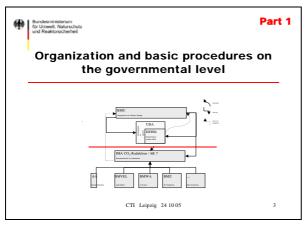
Thomas Forth

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

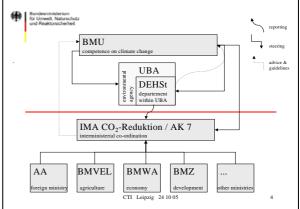


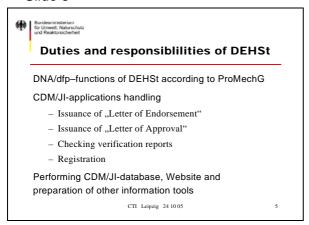


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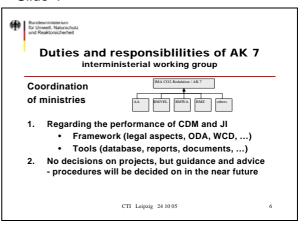


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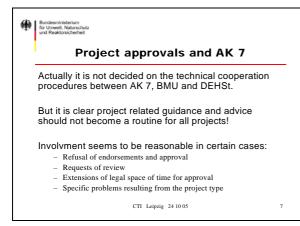


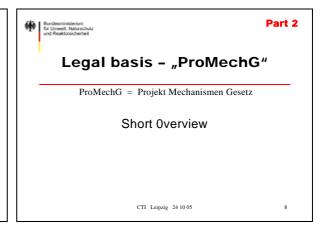


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Slide 5 Slide 6





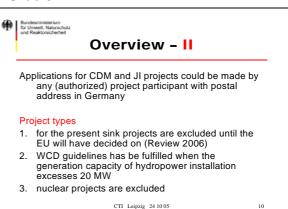


verification) ProMechG should lead in practice to a check of plausibility of the written documents

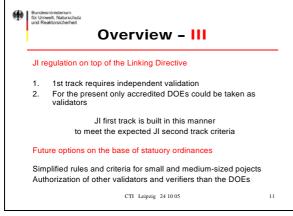
Only in case of inconsistencies the DNA has to go for own review, primarily with requests of clarifying and not by own investigations

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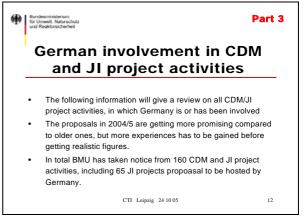
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Slide 9

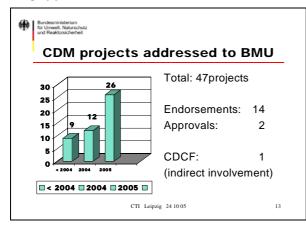


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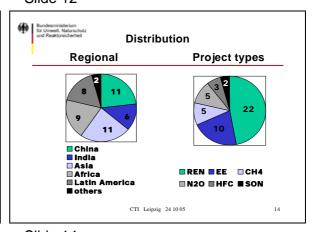


Slide 11

Slide 13

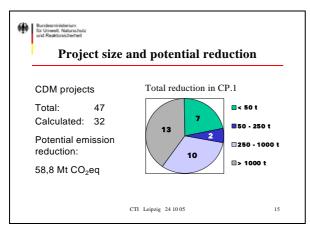


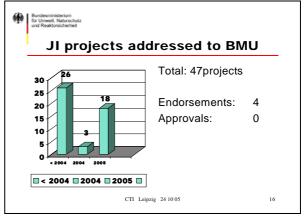
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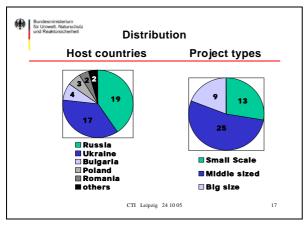


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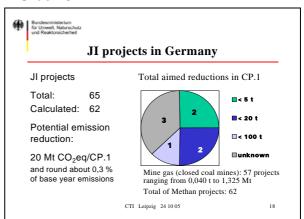
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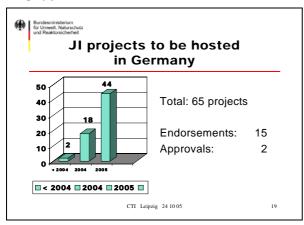




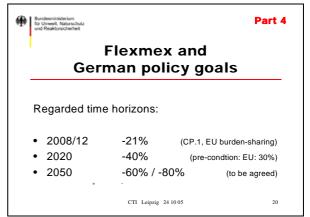
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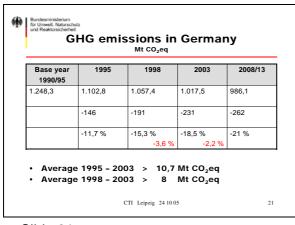
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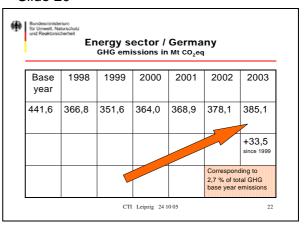
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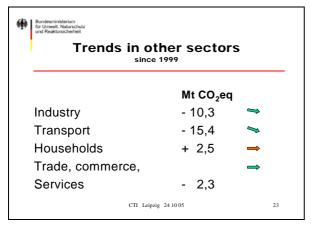
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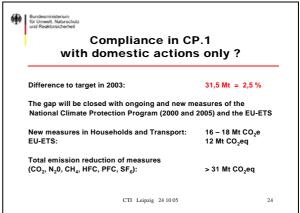


Slide 20



Slide 21 Slide 22







Use of CERs and ERUs in EU-ETS - I

- The Linking Directive opens the EUA market for CERs
- With regard to the supplementarity rule (signifcant level of domestic action) a cap on CERs and ERUs has to be
- Germany has decided to determine this cap in NAP2 next year.
- In case Germany goes for the same cap as The Netherlands (8%) the total margin add up to 40 Mt p.a. for the optional use of CERs and ERUs or 200 Mt in the whole trading periode 2008/12

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Slide 24



Use of CERs and ERUs in EU-ETS - II

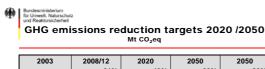
- Compared to the total yearly cap of German installations of 8 Mt in second trading periode this seems to be favourable for the German ETS as a whole, but not all companies are winners!
- From the disposibility of CERs and ERUs for 200 Mt 40 m certificates could be apportioned to the cap, but the other 160 m are also reclaimable in the second trading periode.
- That's could add to round about 3 % of the base year emissions.

Of course there are barriers for the full development of this market:

- Demand side: 160 m EUA would have been set free! Who will ask for and at what price ?
- Even regcognizing the technical reduction potential as high enough it is complex and longsome to develop

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Slide 25



2003	2008/12	2	020	20	50	2	050		
	-21%		-40%		-60%		-80%		
1.017,5	986	749		499		250			
	-31,5		-269		-518		-768		
Average reduction 1995 - 2003 > 10,7 Mt CO ₂ eq / y									
as basis for	"BAU" scen	ario v	vith am	bient	domes	tic ac	tions		
Reduction level in 2020/50			-181		-395		-395		
Total emissions	s in 2020/50	837		623		623			
Emission target in 2020/50		749		499		250			
Difference to "BAU"			-88		-124		-373		
Necessary average reduction		-16		-14		-21			
Compared to 1	995/2003		-5		-3		-10		

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Slide 26



Aggregated costs for the German national economy by 2020

Assumptions:

- Compliance in CP.1
- Difference to "BAU" totally compensated by CDM and JI
- Total lack of reduction units between 2012 and 2020: 684 m

Price per unit 8 €

5,472 bn € Total cost: Only in 2020: 0.704 bn €

Not inflation-adjusted

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Slide 27



The project-based mechnisms will be used in Germany during CP1 by German companies mainly.

Actually the role of the Government is focused on setting the suitable framework for private use, but also to provide for the institutional arrangement for the future,

- · especilly with view to the target Germany proposes for following commitment periodes,
- including for the relevant use of Flexmex for the own national commitments.

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Slide 28



Perspectives on projectbased mechanisms for CEE

What is on the table?

- 1. JI first track
- 2. JI second track
- 3. Green Investment Schemes GIS
- 4. Domestic emission reduction projects/ national projects (NP)

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Slide 30



für Umwelt, Naturschut und Reaktorsicherheit

JI first track

- The performance of JI projects under 1st track conditions will be at risk with important JI host countries
- The problem will persist during CP.1
- In these cases JI projects participants should provide for 2nd track procedures
- Germany has done it with ProMechG: especially the requirement of a validation by an independent accredited certifiers (DOEs of the CDM) should ensure to fulfil the criteria of the 2nd track
- After establishing the JISC and the review of the Inking directive adjustments of ProMechG has to be considered
- Simplifications of the JI 1st track depend on the fulfilment of the eligibility criteria (Marrakesh-Accords) and could be done on a bilateral level

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JI second track

- JI 2nd should not be developped as a tool to be used in perspective
- The 2nd track option should safeguard of investments in emission reduction projects and should encourage project participants to proceed
- The demonstration of the project's additionality is such essential as the monitoring and the verification, but there is no reason to built it up in the way of CDM
- It is to discuss, whether the addititionality should not be limited to the environmental aspects

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Slide 31



Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit

Green Investment Schemes - I

- GIS becomes more and more interesting, but only for Annex I – Countries, which getting eligible in time and which in the position to sell AAU
- GIS could become a very powerful instrument for those countries and replace JI on the whole
- But there are many options to built a Green Investment Scheme
- Catchwords are hard greening and soft greening, re-investment of the payments, institutional framework including the criteria for eligible projects and monitoring)

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Slide 32



Green Investment Schemes - II

- For Germany GIS could become interesting in the near future, when there are more types of certificates could be gained
- With regard to the use in the EU-ETS EU-Allowances or ERUs are needed

There are three options to solve the problem

- 1. Linking GIS with the EU-ETS on a legal basis
- Involving JI 1st track as a lean option for investors
- Establishing the option "national project" being scheduled in the Linking Directive for the upcoming review in 2006

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Slide 33



Linking GIS and EU-ETS

This idea could be considered seriouly only if the linking will be based on Green Investment Schemes characterized by the catchword "hard greening"

Essentials

Additionality incorporated in GIS (same level as for "opt-in"-activitities in the EU-ETS)

Projected related

- Monitoring and verification
- Avoiding of double counting
- 1:1 balance of emission reductions and certificates
- Independent verifiers

Academic, but not attactive solution

Additional problem: the agreement with the EU CTI Leipzig 24 10 05

Slide 34



Solution 2

Combining GIS and JI 1st track

Essentials

- Environmental additionality incorporated in GIS
- Standardized monitoring and verification

Projected related

- Avoiding of double counting (in any case)
- Simplified reporting format appoved by host country

Conclusion

Additional transaction costs could be reduced to a very low level

To clarify

Are there different intense work for the host country. when they have to decide to issue AAUs or ERUs

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Slide 35



Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit

Solution 3

Combining GIS and "national projects"

- National projects (NP) or domestic emission reduction projects have been discussed controversely during the negotiation of the Linking Directive (LD)
- Finally it has been decided to work out this instrument on a technical level (review of the LD in 2006)
- Probably NP could not be handled so liberal like JI1st track. There is no bilateral control and therefore NP could misused to bypass the national allocation plans
- In case this central problem of "NP" could be regulated in an unbureaucratic manner the combination with GIS should take the same patterns as for JI 1st track (solution 2)

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Slide 36



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Main conclusion

Joint Implementation will play in an important role in the early years. In the long run GIS are more powerful. In host countries establishing a GIS JI will turn to an supplemental instrument.

The historical turning point of the role of JI depends primarily

- · the fulfilment of the eligibility criteria for "trading"
- the volume of tradable AAUs
- the international progress on the concept of GIS
- · the national preparation of concrete GIS
- · and maybe on the membership of th EU regarding the double counting issue which leads to a reduced potential of JI projects

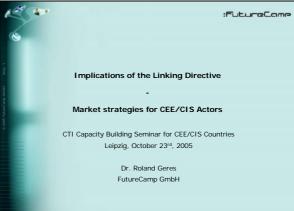
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Implications of the Linking Directive: Market Strategies for CEE/CIS Countries

Dr. Roland Geres

FutureCamp GmbH, Munich

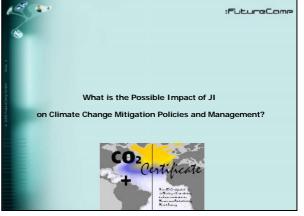




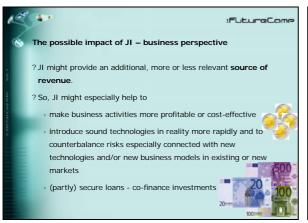
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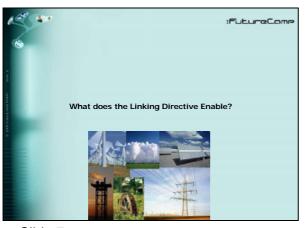
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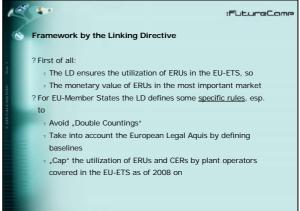


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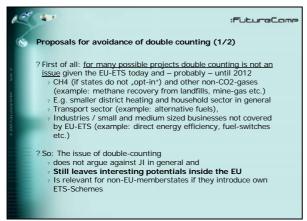


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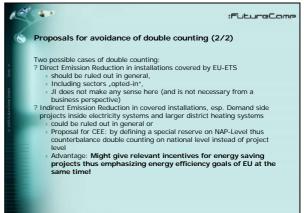




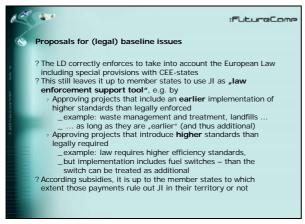
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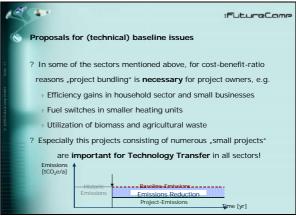
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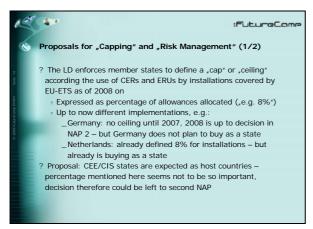
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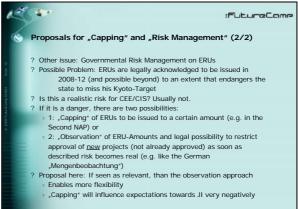


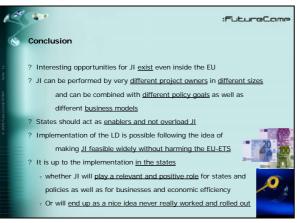
Slide 12



Slide 13 Slide 14







Slide 17 Slide 18



CO₂ Trading – Insights from the Trading Floor

Tim Czwartynski Udo Wappler

EEX European Energy Exchange AG, Leipzig

The EEX European Energy Exchange is continental Europe's largest power exchange, based in Germany. It offers both Spot and Derivatives markets for power and EU Emission Allowances, as well as offering OTC clearing services to the market.

The European Energy Exchange currently has 128 participants from 16 countries, with 117 members on the Spot Market and 58 on the Derivatives Market.

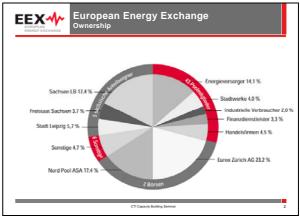
In the trading of EU Emission Allowances (EUA), the so called CO₂ certificates, the EEX has offered a Spot Market as of March 2005 and a Derivatives Market as of October 2005. Both markets are complemented by OTC clearing, which allows parties to bilaterally trade, with the counterparty risk taken over by the EEX clearing house.

The products currently traded on the exchange are EU Emission Allowances for the first and second EU compliance periods. Both markets offer continuous trading, with financial settlement through EEX clearing members, members which financially settle all Non Clearing Member transactions on the exchange. In the Spot Market, once a trade has occurred, the settlement payment versus delivery takes place at t+2, two days after the transaction has occurred. In the Derivatives Market however, delivery takes place at a later fixed date.

Being a new market, trading volumes over exchanges are relatively low, but increasing week by week. The EEX has been seeing trading volumes of 300.000 EUA/month over the previous few months. The number of trades is also on the increase.

Further information on the Spot and Derivatives markets can be downloaded from http://eex.de/info_center/downloads/dl_spot/booklet_e.pdf for the Derivatives Market.



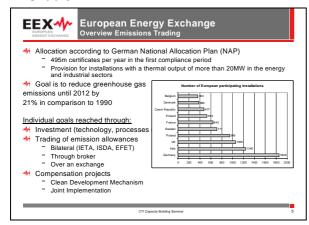




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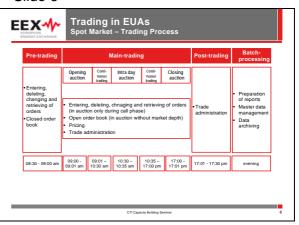


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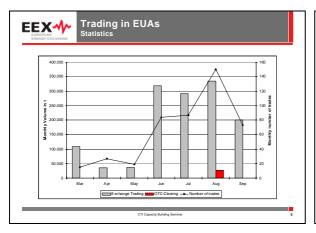


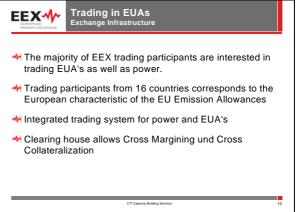


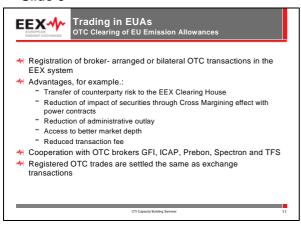
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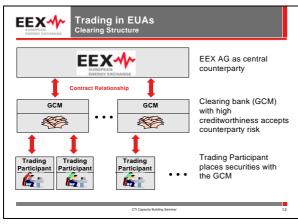




Slide 10



Slide 11



Slide 12



Slide 13



Slide 15

Slide 14

Implementation of EU Monitoring and Reporting Guidelines: Requirements and Current Practices in Germany

Dr. Jürgen Landgrebe

German Emissions Trading Authority – Deutsche Emissionshandelsstelle (DEHSt)

Introduction

On 31 March of each year, operators of installations covered by the European Emissions Trading Directive (Directive 2003/87/EC) are obliged to submit emission monitoring reports in accordance with the Monitoring and Reporting Guidelines – MRG (EC–Commission decision from 29 January 2004). The MRG shall ensure a complete, transparent and accurate monitoring and reporting of greenhouse gas emissions. They contain detailed criteria in form and content for

- the monitoring and reporting of emissions resulting from the activities listed in Annex 1 of the Emission Trading Directive,
- the controlling and acceptance of the reporting system (monitoring concepts) by the competent authority and
- the verification of the reports submitted by the operators. The operators are obliged to establish an effective data management system as part of their monitoring concepts.

The operators had to substantiate the tier approach for each installation and to elaborate individual monitoring concepts before 1 January 2005.

The specific requirements of the MRG, e.g. resulting from the tier approach, are ambitious and time-challenging. Furthermore, the MRG include various parts with opening clauses or parts that provide scope for interpretation which require clearer definition in individual cases – and in some cases the approval or permission of competent authorities. While this allows a greater flexibility with respect to the interpretation of the requirements of the MRG in the individual member states, at the same time it can lead to major inequalities of treatment between and within the individual member states. Such inequalities in interpretation give rise to significant market distortions among the operators of installations of a given sector in different member states.

Implementation of Monitoring and Reporting Requirements in Germany

Due to the shared tasks stipulated in the MRG among operators, verifiers and competent authorities as well as the split competences in the German Greenhouse

Gas Emission Trading Act (Treibhausgas-Emissionshandelsgesetz - TEHG) between federal and regional authorities, a National Working Group on technical questions of the Monitoring and Reporting Guidelines was established already in 2004. The participants are the German Emissions Trading Authority (DEHSt), the Federal Environment Ministry and the Länder Authorities. The target of the DEHSt / Länder competent authorities team is to achieve a harmonized implementation of the requirements on the national level in order

- to avoid distortion of competition due to varying implementation of the MRG in the Länder (Federal States),
- to avoid distortion of competition due to different measuring and evaluation instructions by allocation and reporting,
- to secure high legal certainty and low transaction costs for enterprises and independent verifiers,
- to minimize administration efforts for the concerned competent authorities
- to elaborate common positions to the EC-Commission for improvements and further harmonization of reporting obligations and requirements on the European level, and
- to develop a uniform (digital) reporting format for cost-efficient communication via electronic interfaces.

Tasks and results of the DEHSt / Länder competent authorities team

Numerous issues concerning the implementation of the Monitoring Guidelines have been addressed – both by the affected industrial associations and by Länder competent authorities involved in the assessment of monitoring concepts - and decided on in the DEHSt / Länder competent authorities team up to now. This very time-consuming process of coordination and adjustment is still well under way in Germany.

As a first result of the DEHSt / Länder competent authorities team, the form and content of a monitoring concept was exactly defined and a template (in German language only) was created and published on the internet (http://www.dehst.de). The template is not mandatory, but well accepted and more and more used by the operators. In addition, many frequently asked questions (FAQ) concerning the requirements of the MRG have been addressed and discussed, such as

- necessity of ISO 17025 accreditation for laboratories,
- frequency for representative sampling and criteria,
- consistency of emission and oxidation factors used for reporting and allocation application,
- criteria and benchmarks for "economically not reasonable" measures in cases where the operator wants to fall below the specified tier approach.

More than 60 FAQ in the context of monitoring are already answered and all the answers are published in the FAQ-sector on the website (http://www.dehst.de). Stepwise all published FAQ will be translated into English. Please find the first translations of FAQ in Annex I.

The results and decisions of the DEHSt / Länder competent authorities team are as well used to give an input to the review process of the MRG. The European

Commission has initiated the European review process set out in the Monitoring Guidelines by issuing a wide-ranging questionnaire and due for completion by 31 December 2006. The review is intended to take into account experiences in applying the MRG in the member states, with a view to any changes that might be taking effect from 1 January 2008. The DEHSt / Länder competent authorities team welcomes the initiative of the European Commission to undertake a review of the MRG, and in particular the plan to integrate all stakeholders into this process on a broad basis. On 15 April 2005, the DEHSt / Länder competent authorities team has finalized a Position Paper on the review of the MRG and sent to the European Commission. Enclosed, please find this Position Paper in Annex II. Furthermore, the team is integrated in the ongoing discussion on the review of the MRG.

Currently the attention of the DEHSt / Länder competent authorities team is occupied by important issues relating to the preparations for reporting emissions in March 2006 – the form and content of emission reports, electronic reporting format – and their verification. As well as in 2004, when the German Emissions Trading Authority was receiving verified allocation applications and issuing 1,849 allocation notices, it is intended to communicate entirely paper-less by the use of electronic data-exchange (see picture 1) between operators, independent verifiers, Länder competent authorities and the German Emissions Trading Authority. The monitoring software will be a server-based solution. Prototypes are currently under development and will be delivered to the operators on 1 December 2005.

Verification

Enterprise

Emission
Report

Umwelt
Bundes
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Fig. 1: Communication channels for electronic monitoring reports

Last but not least guidelines on verification will be elaborated by the DEHSt / Länder competent authorities team and published to make sure that the independent verifiers contribute effectively to assess the data submitted by the operators. The role of the verifiers is, of course, to focus on all site-specific aspects of the monitoring reports and to verify the data in comparison with the monitoring concepts including acceptable uncertainties for individual fuel or material streams. The main focus of the Länder Authorities will be to validate the consistency of the monitoring reports with the IPPC permits (e.g. are all sources covered?). Furthermore, they will take random samples to control the work of the verifiers that are active in their country.

Future tasks

The first monitoring reports are expected in March 2006. The German Emissions Trading Authority will then validate the emissions reports provided by the operators, verified by the verifiers and – random sampling likewise – checked by Länder authorities. The German Emissions Trading Authority will also validate whether the operators' CO_2 emissions tally with the allowances they hold, and – if not – will serve sanctions. To set up the Emission Trading as environmentally and economically effective as possible, the German Emissions Trading Authority will continue

- to harmonize monitoring and reporting on emissions in Germany (implementation of MRG and coordination with international reports on climate protection),
- to develop proposals for future harmonization on EU level (e.g. definition of a site, BAT-benchmarks/benchmarks, monitoring and reporting),
- to evaluate the experiences with regard to NAP II (2008-2012) and national legislation,
- to integrate Kyoto mechanisms CDM and JI and
- to implement new software (for "new entrants", monitoring reporting, IT-workflow system for IT-based administrative proceeding).



Slide 1



Compliance Factor Incl. Proportionate Adjustment:

Number of installations

About a quarter of installations received allowances with a reduction of less than 2 %, two thirds with a reduction of more than 4 %

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Slide 4

German Emissions Trading Authority: TASKS (2) to operate the registry () March 2005 · to open and to activate accounts: 1,849 operator accounts 100 personal accounts to issue allowances >494 Mio. EUA to operator accounts to facilitate trading - transactions: 11.6 Mio. EUA CTI Capacity Building Seminar for CEE/CIS Countries - October 2005

German Emissions Trading Authority: TASKS (2) EEX CO2 Index Tradingday [€/EU Allowance] 21.10.2005 21.80 to operate the registry (\checkmark) to open and to activate accounts: 1,849 operator accounts - 100 personal accounts to issue allowances 5494 Mio. EUA to 1,849 operator accounts Jan. Mrz. Apr. Mai. Jun. Jul. Aug. Sej. 05 05 05 05 05 05 05 05 to facilitate trading - transactions: 11.6 Mio. EUA

Slide 5

German Emissions Trading Authority: TASKS (3)

to control operator's monitoring reports (March 2006)

- to evaluate the data submitted
- to serve sanctions (March April 2006)
 - freeze accounts
 - in cases of non-compliance: collect payments of €40/t

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Slide 6

Monitoring - Legal framework: EU

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Emission trading directive (Sec. 14 and 15):

- Art. 14, Sec 1: basis for the specification of guidelines for monitoring and reporting of emissions (Annex IV and monitoring and reporting guidelines)
- Art. 14, Sec. 2 and 3: the member states shall ensure that emissions are monitored in accordance with the guidelines and that operator reports after the end of the each year
- Art. 15: reports submitted by operators shall be verified in accordance with criteria set out in Annex V

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Slide 7

Monitoring - Legal framework: EU

Monitoring and Reporting Guidelines (EC-Commission decision from 29 January 2004):

- shall ensure a complete, transparent and accurate monitoring and reporting of greenhouse gas emissions
- contain detailed criteria in form and content for
 - the monitoring and reporting of emissions resulting from the activities listed in Annex 1 of the emissions trading directive
 - the controlling and acceptance of the reporting system by the competent authority and
 - the verification of the reports submitted by the operators.

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Monitoring Guidelines

- Monitoring concept
- Tier approach

Slide 8

- · Determination of greenhouse gas emission (calculation or measurement)
- · Reporting of emission: data format and content
- · Quality assurance

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Slide 9

Content of the MR Guidelines (1)

Monitoring concept:

- has to be elaborated by the operator before 01.01.2005
- · has to substantiate the tier approach for each installation
- shall be approved by the competent authority, in all cases of deviation from the specified tier approach or given methods

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Slide 11

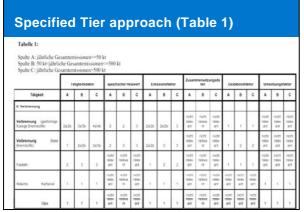
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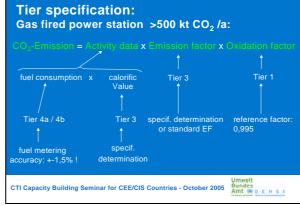
Content of the MR Guidelines (2)

Tier approach:

- principle: a higher tier-number represents a higher level of accuracy for the determination of emissions
- the operator has to choose the tier with the highest number - resp. the higher accuracy requirement - <u>if technical feasible</u> and economically reasonable
- <u>Table 1</u> of MRG specified <u>minimal</u> tier approach for different activities and plant size (total annual emission) for the period 2005/2007

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Slide 13 Slide 14

Legal framework: Germany (1)

Split competences between Federal (DEHSt) and Länder Authorities

- (16) Länder Immission Control Authorities:
 - permitting
- approval of monitoring concepts
 validation of monitoring reports (focus: site-specific aspects)
- German Emission Trading Authority
- evaluation of data submitted (focus: emission factors etc.)
- enforcement of monitoring requirements / sanctioning

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Slide 16

Organisation:

Slide 18

Harmonized implementation in Germany

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Legal framework: Germany (2)

Monitoring Guidelines are directly legally

some specific requirements of the MRG are ambitious

MRG include various opening clauses and parts providing

binding to plant operators!

and time-challenging

scope for interpretation

DEHSt/Länder-Task Force (Nov. 2004) to discuss and to decide on technical questions

Tasks were to decide on ...

- form and contents of monitoring concepts (template),
- criteria for the interpretation of the opening clauses,
- form and contents of monitoring reports,
- requirements for verification,
- a uniform digital reporting format for cost-efficient communication via electronic interfaces.

Results (templates, >60 FAQ, ...) are published: www.dehst.de

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Slide 15

Harmonized implementation in Germany Reasons:

- to avoid <u>distortion of competition</u> due to varying implementation of the MRG in the (16) Länder
- to avoid distortion of competition due to different measuring and evaluation instructions by allocation and reporting
- to secure high legal certainty and low transaction costs for enterprises and independent verifiers
- to minimize administration efforts for the concerned competent authorities

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Slide 17

Questions and Answers (1)

Which tier approach must operators apply during the allocation period 2005-2007 and in which cases deviations from tier approach must be approved by competent authorities?

- Generally, MRG always requires the <u>maximum</u> tier approach
- For allocation period 2005-2007, table 1 MRG lists the tiers to be applied as a minimum
- In Germany, deviation from table 1 must be approved by the competent authority; operators have to justify that necessary measures to meet the accuracy requirements of the tier are in the individual case not technically feasible or would lead to unreasonably high costs.

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Slide 19

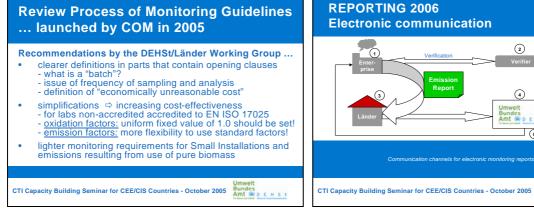
Questions and Answers (>60)

Further questions and answers ...

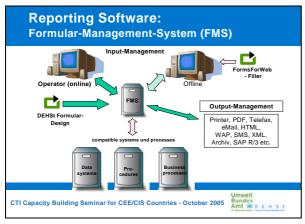
- ... are discussed and decided continuously in the DEHSt/Länder competent authority team and
- ... will be published as FAQ on the DEHSt-homepage www.dehst.de.

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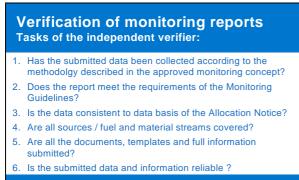
Slide 20



Slide 21 Slide 22







- further harmonization and simplification of requirements on international level DEHSt will continue ... - to answer FAQ - to contribute to the EU review process - to publish national guidelines on verification - to supply operators with monitoring software on 1 Dec. 2005 CTI Capacity Building Seminar for CEE/CIS Countries - October 2005

Implementation of MRG has been very time-challenging!

Verification of monitoring reports

Installation permit

emission report

tasks of the independent verifier

Tasks of the independent verifier: TEHG and

toring Guideli

site-specific

monitoring - concept

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Market distortions should be avoided by

- harmonized implementation on national level

operator

Conclusions

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Allocation notice

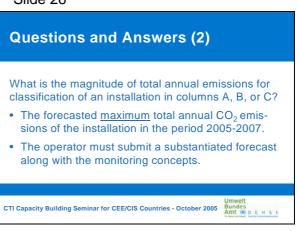
Templates & additiona

Slide 25

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Slide 26



Slide 27 Slide 28

Questions and Answers (3)

Do apply the requirements of the tier approach resp. the defined tier for single variables for all sources and/or fuel or material streams of an installation?

- Generally, all sources and/or fuel or material streams must be considered.
- The MRG differentiate between major, minor, "de minimis" sources and pure biomass fuels.
- For minor and de minimis sources as well as for pure biomass fuels (exception: CEMS) the MRG require less stringent accuracy requirements

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Slide 29

Questions and Answers (4)

How is "batch" defined in the Monitoring and Reporting Guidelines?

- "batch" means a shipment of fuel or material of uniform and identical sources in defined units, for example delivery by train or ship in case of imported coal or expressed as the delivery period for in pipeline-bound fuels as well as fixed supply relationships between mines and power
- A "batch" is subject to representative sampling in order to determine the average energy and carbon content as well as other relevant aspects of the chemical composition" (see annex I, Cap. 2 of MRG)

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Slide 31

Questions and Answers (6)

Which emission factor (EF) is to be proved in the monitoring?

- For commercial fuels those EF must be proved, who are used for the ${\rm CO_2}$ calculation in the allocation process.
- A change of the calculation base from activity specific determination of the factor to standard factor and vice versa is only possible, as the factor used in the monitoring is not lower than the one used in the allocation process.
- If an EF is not used within the allocation process, the operator can choose between standard factor and activity specific determination of the factor
- For non-commercial fuels additional facilities are provided for small emitters (total annual emission < 50 kt/a).

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Slide 33

Questions and Answers (8)

What must be considered by the determination of the net caloric value?

- The net caloric value must be determined specific in all cases
- As a general rule, the net caloric value must not be analysed, but rather can be taken from the document of the fuel supplier (if necessary, the value must converted form the gross to the net caloric value for natural gas.
- converted form the gross to the net caloric value for natural gas). If the allocations based von § 7 ZuG 2007 and the same fuel is still used clear deviations of the net caloric value between the allocation process and the monitoring must be explained; especially if the value still characterise the fuel), additional facilities are provided for special cases (tier 2 weighted median caloric value proved in the allocation process if the same fuel is used within allocation process and monitoring).

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Slide 35

Major, Minor and "de minimis" Sources

- Major sources: classified in descending order account for at least 95 % of the annual CO₂ emission of the installation ⇒ tier approach according to table 1 is essential!
- Minor sources: account cumulatively for less than 5 % or for maximum 2.5 kt CO₂ of the annual CO₂ emission of the installation the greater absolute value is applied.

 ⇒ the nearest lower tier according to table 1 is essential; approval
 - by the competent authority.
- "de minimis" sources: account cumulatively for less than 1 % or for maximum 0,5 kt CO₂ of the annual CO₂ emission of the installation the greater absolute values applied.

 ⇒ tier-independent estimation; approval by the competent authority.

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Slide 30

Questions and Answers (5)

Are EN ISO 17025 accredited testing laboratories to be used in all cases?

In allocation period 2005-2007 non-accredited external and company internal labs may also perform sampling and analysis, provided that .

- accredited labs carry out additional test in order to compare the values and the equipment and procedural methods of the labs are assessed an accredited lab at regular intervals
- the exact procedures and the frequency of these measures should be determined in accordance with the accuracy requirements of the installation (measures should however be carried out at least once a year).

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Slide 32

Questions and Answers (7)

Which oxidation factor (OF) is to be proved in the

- monitoring? Generally, those OF must be proved, who are used for the CO₂calculation in the
- allocation process A change of the calculation base – from activity specific determination of factor to standard factor and vice versa – is only possible, as the factor used in the monitoring is not lower than the one used in the allocation process.
- If an OF is not used within the allocation process, the operator can choose between standard factor and activity specific determination of the factor. However he have prove that the activity specific determination is more precisely.

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Are the New EU Member States Ready for Kyoto **First Commitment Period Trading?**

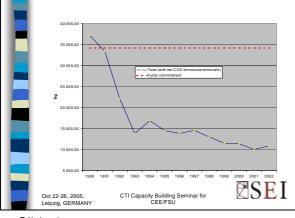
Dr. Tiit Kallaste

Stockholm Environment Institute SEI – Tallinn Centre

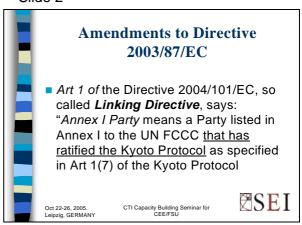


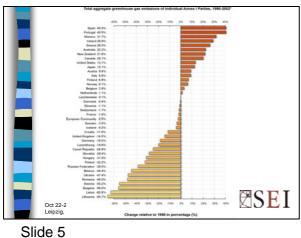
Different starting positions 8 new MS are principally in different situation compared to 15 old MS with their ${\rm CO_2}$ emissions reduction target and relevant development trends compared to old MS. All former EIT countries but Slovenia, are well below of the Kyoto target (see for example the GHG emission trends and Kyoto target for Estonia). The same trends with different absolute figures could be drawn for Latvia and Lithuania. Also for the majority of new MS. This sets up principally different approach for the construction of NAP2 Old MS have set target to reach the Kyoto target being above the target, new MS approaching it being below. New MS have formally no need to "reach" Kyoto target as requested in the Directive and in Guidelines! (As they already reached it in the course of economic transition from centrally planned to market economy!) ₿SEI CTI Capacity Building Seminar for CEE/FSU

Slide 1



Slide 2

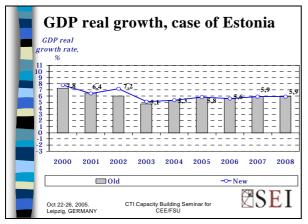




Slide 4



Slide 6



New MS far below their **Kyoto targets** Estonia, for example, is today up to ~ 3-fold below of Kyoto target; 10, 85 Mt of CO2 considering LUCF in 2002 vs 34,20 Mt of CO2 (Kyoto target for Estonia), see the following Figure! Actual figure for 2004 will be close to **12,5 Mt**, it will be included in NC4 report The same is valid for Latvia and Lithuania. Also for the rest of 4 CEE countries; Poland, Hungary, Czech Republic and Slovak Republic. ZSEI

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Slide 7

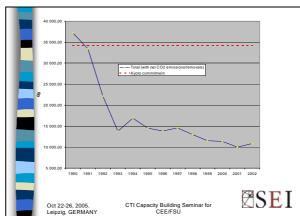
Important changes in new MS **GHG** emission trends

- The important change towards the raise in the GHG emission trends has appeared during recent years. The fast economic development brings with the significant growth of GHG emissions. Estonia's increase in emissions is ~10,6 %, Latvia and Lithuania both stand for the growth rate about 15 %
- New inventories and forecasts are in process at present. Estonia will accomplish NC4 in Nov. and submit it to UN FCCC Secretariat in Bonn to the end of year. It is of high importance to have updated GHG emission forecasts while working on NAP, see the Figure!

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Slide 8

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Slide 9

Specific issues

- Pooling issue comes to the picture. It has been skipped for the first trading period. Pooling as an approach for sharing the market has high importance in particular for heating sector where the grids overlap.
- OPT-IN and OPT-OUT of installations must be handled similarily in MS.
- Reserve for new entrants
- Accounting of AAUs and ERUs in NAP-2

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Slide 10

Main principles for new NAP

- General approach Bottom Up! As there are no sectoral targets set. New MS have their AA fixed. There is still a national reserve available, which means, no specific restrictions in allocation process...
- The Old MS use the Top Down approach. This makes a difference!
- Which allocation mode is to be preferred? Grandfathering, benchmarking,...
- Should the allowances allocated free of charge, or should there be the auctioning up to 10%?

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Slide 11

The profile of market participants

- Number of installations in NAP-1has been relatively small in Baltics compared to old MS. In Estonia, e.g. 43, in Latvia 95, in Lithuania 93.However, in Poland it reached 1000.
- Not all four sectors foreseen by the Directive are included. In case of Estonia and Lithuania the metal processing sector does not have any installations to be included to scheme. Latvia has only one installation included in this sector.
- Only recently here has been discussion in EC whether or not to include more sectors to NAP-2. For example, the chemical industry which could significantly widen the scope other gases beyond the CO2. Also the number of installations.

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Slide 12

"Open ends"

- There are still many "open ends" to be solved and harmonised. Just some of them: **Opting out** (and in) of installations. Is it fixed by now? What rules will be in force? When opting out
 - the installation still must proceed the monitoring and reporting procedures and complete the verification report?! This may cost a lot to a small installation.
- New entrants issue. It is important how to define new entrant. The Directive defines it in very general terms.... Could the reconstructed installation be just added to the existing list of installations in new NAP?!
- Harmonised criteria for assessment of the national reserve in NAP-2. Could it be 1% or 25%...?!

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Slide 13

Slide 14

Early Action in NAP-1 &NAP-2 Early Action is foreseen by the Directive Early action in Estonia's NAP-1 was applied in cases of: - fuel switch from fossil fuel to biomass in DH subgroup, energy saving in electricity transfer grids actions taken towards increasing the share of CHP replacing HOB (heat only boilers). For the first NAP no old MS accommodated this provision. In case of New MS it is the case when it will be possible to grant allowances to those installations who have done voluntary activities to reduce the GHG emissions before submission of NAP to European Commission. New MS have still the reserve to go up till Kyoto target! No need to cut relevant amount from another actors. What about the defining Early Action for the NAP-CTI Capacity Building Seminar for CEE/FSU Oct 22-26, 2005. Leipzig, GERMANY

Slide 15

Linking Directive implementation Art 1 of LD amending Art 11b of Trading Directive, says in p. 3 "Until 31 Dec 2012, for JI and CDM project activities which reduce or limit directly the emissions of an installation falling within the scope of this Directive, ERUs and CERs may be issued only, if an equal number of allowances is cancelled by the operator of that installation. In p.4 it says "...ERUs and CERs may be issued only if an equal number of allowances is cancelled fom the national registry of the Member State of the ERUs' or

- CERs' origin.' So, 1 ERU = 1 EUA ?? Sounds like nice profit-making?!
- May be it would better to emphasise more to "national projects"?

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Slide 17

Real situation today

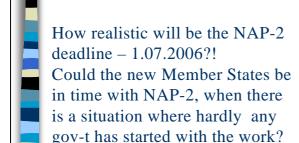
- Real spot trading based on NAP-1 has not actually started yet in any new MS. There are a number of different reasons for that.
- At the same time new MS are the ones who bring most of the "stuff", tradable allowances to the
- As the gov-t has failed to launch the registries in good time, we may critisise that it has thus hindered the juridical and private persons actual trading on EUAs spot market.
- Estonia has been the first new MS (the 12th in EU 25) what has got "the green light" from European Commission on the 5th of October 2005. However, "the devil is hidden in details"

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QUESTION?

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Slide 19



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Slide 21 Slide 22

The Linking Directive Directive 2004/101/EC of 27 Oct 2004 amends the Directive 2003/83/EC establishing the scheme for GHG emission allowance trading

Are the MS ready to implement LD? It says in the Art. 2 of LD "...MS shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 13 th of November

The Linking Directive says: use of ERUs by operator is allowed starting from 2008 up to a percentage of the allocation to each installation, to be specified by each MS in its national allocation plan. Specified on which basis?

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Slide 16

Should we keep the hopes on more instructions?

- Would there be a new set of instructions according to changed situation with the NAP-2? Yet, I have not seen
- OPT-IN and OPT-OUT of installations must be handled similarily in MS
- We still keep the same 32 pages COMMUNICATION FROM THE COMMISSION on guidance to assist
 Member States in the implementation of the criteria listed in Annex III to Directive 2003/87/EC establishing a scheme for greenhouse gas emission allowance trading, what says no word about the new MS.

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Slide 18

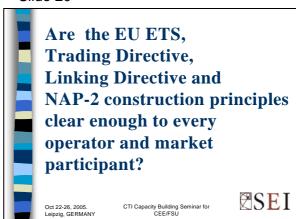
Some new MS still puzzling on the NAP-1

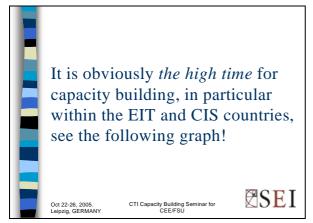
- Not all new MS ready with the NAP-1 yet, e.g. Poland is still negotiating with the industry as the EC request to cut 16,5% from the Brussels is hard for gov-t to reach the consensus with industry.
- Poland will be happy to reach NAP-1 final approvement by gov-t in November only.
- Thereafter it will be high time to start looking around to buy a lisence for some Registry.... and start adjusting the technical details to get it running. It may take more time as expected.

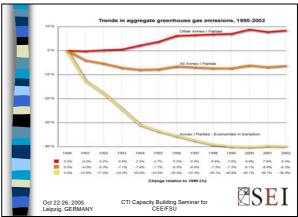
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Slide 23

Conclusions from the last year meeting

- Next NAP is designed to be ready to July 2006. This means the gov-ts should start the relevant activities in good time next year!
- Significantly more experts in New MS should be involved to NAP construction!
- More public informing must take place!
- More emphasis to be put on dialog with the operators of installations.
- Gov-ts in New MS must make climate change mitigation and carbon intensity high priority!

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Slide 25



Slide 27

Conclusions

- When preparing to merge EU Trading Directive and the Linking Directive more emphasis has to be put on New MS specifics!
- More clear and detailed instructions well needed from side of European Commission!
- Further capacity building in New MS is needed 1. For the governmental officials coordinating the implementation of EU ETS; 2. For the operators of installations on principles of NAP-2 construction, functioning of ETL (Registry) and in envisaging the further GHG emission reduction potential.

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Slide 26