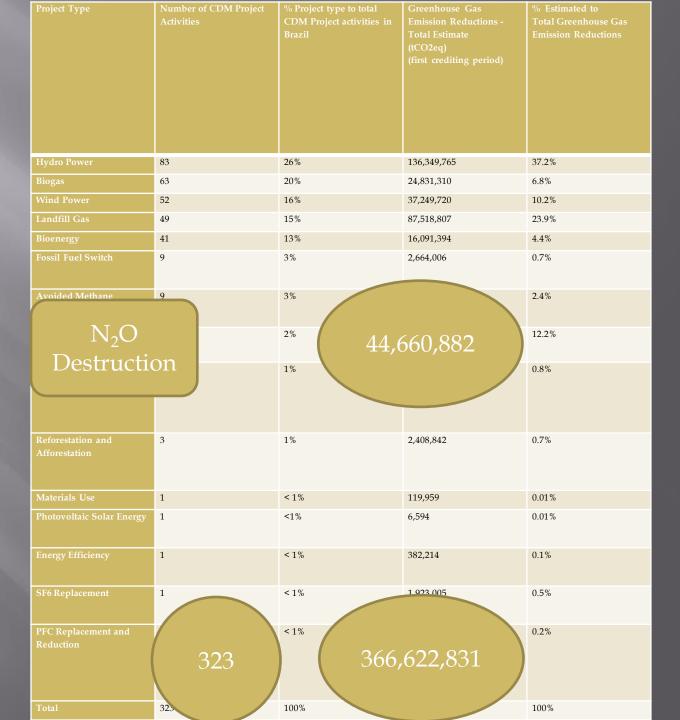
NON CO2 GREENHOUSE GAS EMISSION REDUCTIONS

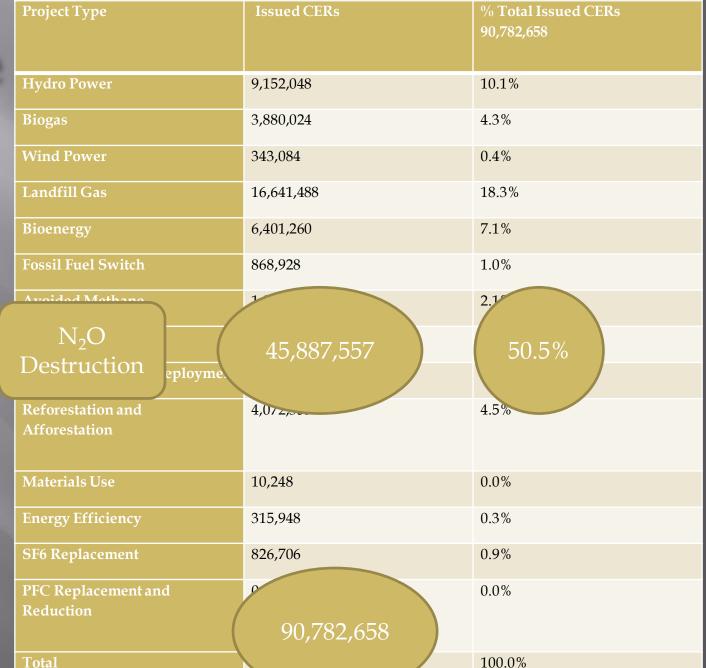
N2O emission reduction projects in Brazil: status, challenges and perspectives

Status



Dec 31/2013

Issuance



Dec 31/2013

5 Projects - 50.5% of Emission Reductions

25 Dec 05	N2O Emission Reduction in Paulínia, SP, Brazil	Brazil	Switzerland Japan Netherlands UK France	AM0021	5961165	0116
13 Nov 08	Fosfertil Piaçaguera NAP 2 Nitrous Oxide Abatement Project	Brazil	Switzerland UK	AM0028 ver. 4 AM0034 ver. 2	171931	1784
21 Mar 09	Fosfertil Cubatão NAP4 Nitrous Oxide Abatement Project	Brazil	Switzerland UK	AM0028 ver. 4 AM0034 ver. 2	109555	2257
02 Jun 07	N2O Emission Reduction in nitric acid plant Paulínia, SP, Brazil	Brazil	Switzerland France	AM0028 ver. 4 AM0034 ver. 2	80109	1011
29 Oct 09	Petrobras FAFEN-BA Nitrous Oxide Abatement Project	Brazil		<u>AM0034 ver. 3</u>	57366	1731

AR5

GWP₁₀₀ 264.8 GTP₁₀₀ 234.2

5 Projects - Practically, total N₂O emission reductions in the Industrial Sector in Brazil



Challenges

Prices of CERs very low



- Banned from EU ETS
- No mandatory legislation to reduce these emissions in most developing countries
- Very expensive technology
- High investment in the case of Adipic Acid
- High O&M in the case of Nitric Acid
 - 90,000 euros annually for the catalyst

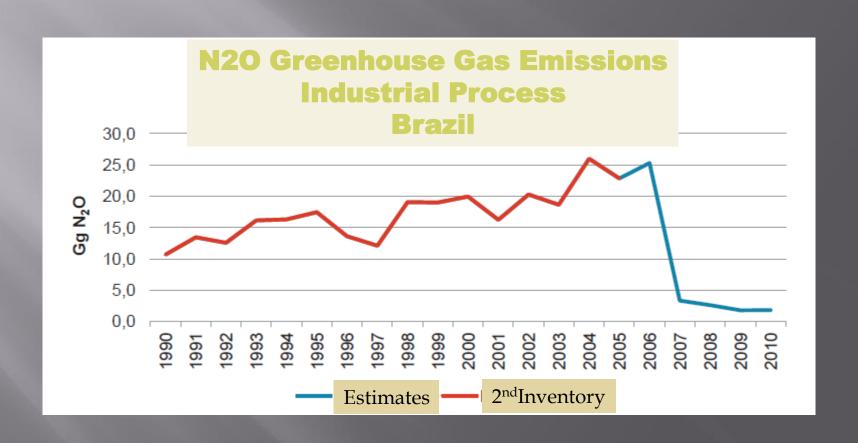




Perspectives

- Industrial gases should be prioritized in future agreement
 - High GWP, GTP
 - Long lifetime, long time residence in the atmosphere
 - No natural "sink"
 - Man made clearly anthropogenic
- Small amounts and few plants
- Alternatives have to be sought (funds, CDM+) to keep CDM project activities running

Gloomy Outlook



Thanks!

