



Caring for the Climate

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SEKEM efforts and progress

07.11.2009

Climate Change and other major challenges



CC threatens the Millennium Development Goals

- Undernourishment increased to over 1 billion
- Wasteful uses of fossil fuels and resources
- Environmental degradation and loss of biodiversity
- Adaptation major challenge for LDC



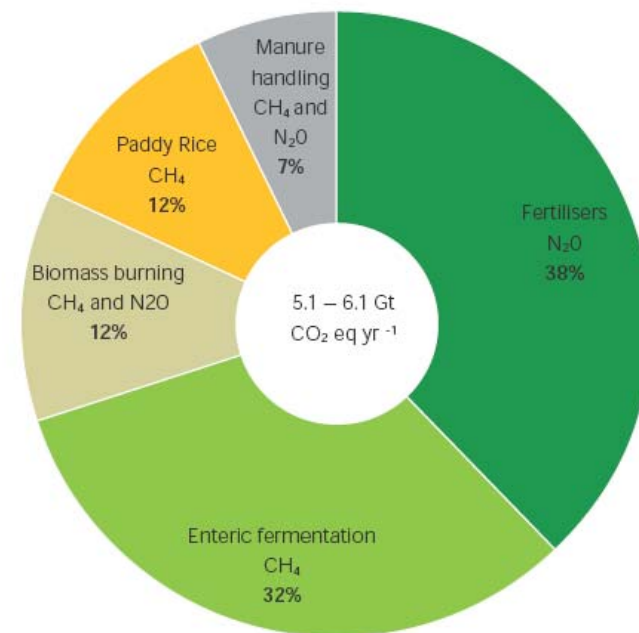
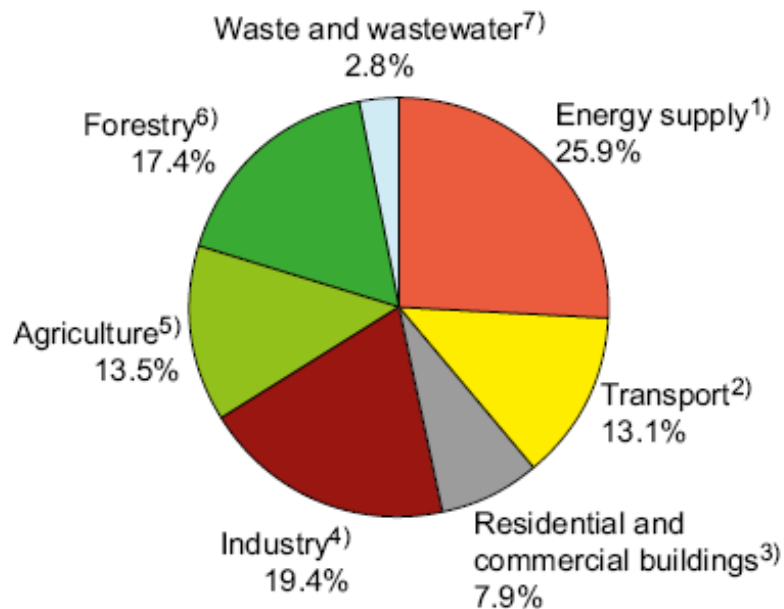
→ Climate Change has to be addressed in a much wider context of sustainable economic systems!

→ Agricultural mitigation and adaptation need far more attention

Emissions of agricultural sector



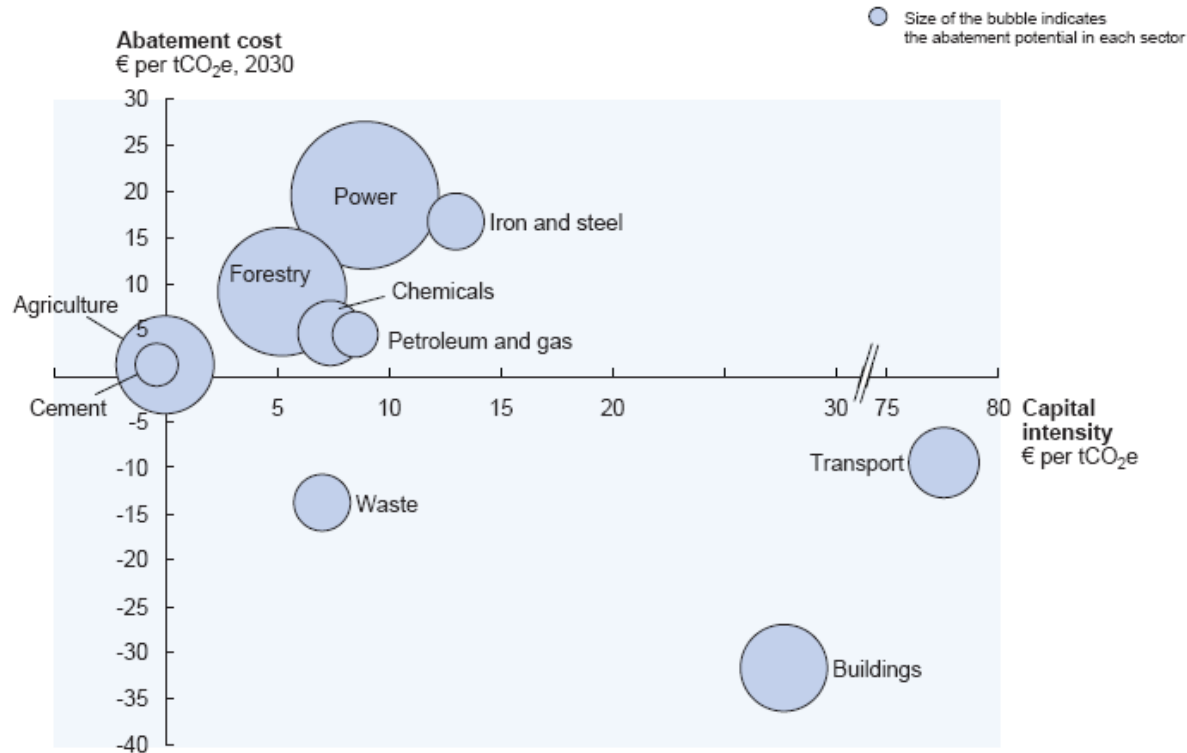
- Agriculture is responsible for around 6 GtCO₂-eq/year
- Mainly from fertilizer, which also are energy intensive



Mitigation Potential of Agriculture



Capital intensity and abatement cost



Source: Global GHG Abatement Cost Curve v2.0

Agriculture has great potential for cost effective mitigation!

SEKEM efforts to fight Climate Change



- Research and Development
 - Carbon Soil Sequestration
 - Sustainable Water Usage
- Production
 - Soil Carbon Sequestration
 - Carbon Assessments
 - Renewable energies
- Political Efforts
 - Living Carbon Partnership
 - Private Sector Statement



Verified Emission Reduction through Methane Avoidance



- Sekems sophisticated Organic Waste management reduces methane emissions and creates high valuable compost to green the desert.
- Registered at the UNFCCC



Carbon Soil Sequestration



Sequestration of 0.8 ton Carbon per ha per year

Sustainable Food Production

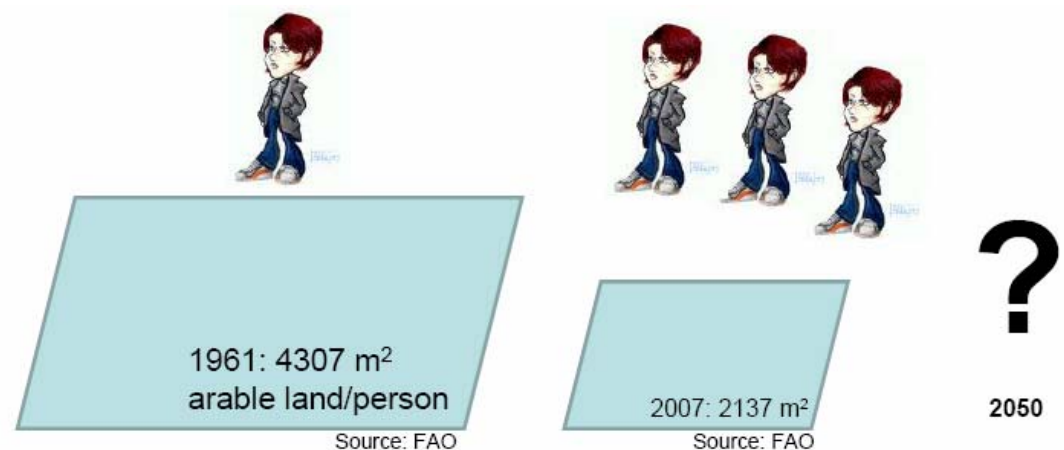


Healthy organic food without pesticides or fertilizers!

The manifold benefits of organic agriculture



- Carbon soil sequestration
- Higher water holding capacity
- No waste of scarce resources (closed nutrient cycles)
- Less energy intensive
- Restores soils, the most precious resource
- Constantly high yields



Sekems Political Engagement



Private Sector Declaration on Global Challenges

Food Security, Poverty Alleviation, Environmental Degradation and Climate Change are the major Global Challenges of the 21st Century, and are highly interdependent. The prevailing model of conventional industrial agriculture has failed to achieve food security and prosperity for impoverished nations or secure livelihoods for rural communities, while exploiting natural resources, causing severe environmental degradation, and fuelling climate change. Especially involving GMO would dramatically increase the dependency on multi-nationals and therefore economic risk of small-scale growers worldwide. The signatory organizations are convinced that organic agriculture offers a holistic approach to address all these challenges simultaneously. Therefore we call on consumers, suppliers and governments to acknowledge the multifold benefits and to support and further develop the organic agriculture systems.

Living Carbon Partnership



Living Carbon Partnership

Organic Solutions for climate security



Vision:

- Diverse Ecosystems
- Nutrient rich soils
- Closed nutrient cycles
- Mitigation of climate change



- Adaptation of climate change
- Healthy food products
- Employment of rural population



Fields of Action:

UNFCCC

1. Support of CDM
2. Support of Sectoral Approach
3. Limitation of the use of credits from LULUCF

International Policies

1. Trade agreements
2. Development Aid
3. Biodiversity
4. Rural Development

National Policies

1. Subsidies
Fertilizer
Energy
Water
2. Taxes
3. Land
Concession
4. R&D spending
5. PPP

Agricultural Sector

1. Sustainability Goals

Agricultural Organizations

2. Certification for organic farmers

Research & Development

1. Traditional knowledge
2. Carbon Sequestration
3. Capacity Building
4. Social structure for know how management
5. Regional centers of excellence in nutrient management

Consumer Awareness

1. Education
2. "Foot-printing"
3. Food Quality
- 4.

Thank you for your attention!

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