**Title of the measure:**

TER-NLD19 - Internal CO$_2$ equalisation system for the greenhouse sector  
(CO$_2$ sectorsysteem voor de glastuinbouw)

---

**General description**

To improve the energy efficiency of the Dutch greenhouse sector, which is the dominant user of energy in the agricultural sector, a CO$_2$ equalisation system has been set up for this sector that became operational in 2011. The ceiling for this system is set by the government. The CO$_2$ equalisation system will **not** be linked to the EU-ETS.

The introduction of a market price for CO$_2$ encourages companies to invest in saving energy. The basis for the emissions is the gas consumption set off against heat and CO$_2$ production. The CO$_2$ price is based on the price in the ETS.

The CO$_2$ equalisation system is applicable for all specialised horticulture companies as well as not specialised one holding a glass area of at least 2500 m$^2$, but excluding those companies that are participating in the EU-ETS. Up to the year 2015 the Productschap Tuinbouw manages the system. The Ministry of Economic Affairs will decide on the future management.

Each year it will be judged whether the target of the system (maximum absolute CO$_2$ emissions) is met. In case the realised reduction is below the target, this will result in costs for the individual companies that will show up in the energy price of natural gas. The amount of money is related to the number of CO$_2$ emission rights the government has to buy to match with the target. The target is to have in the year 2020 maximum 6.2 Mton CO$_2$ emissions; this equals an annual reduction of 0.2 Mton.

The CO$_2$ equalisation system is included in the Dutch NEEAP2 and NEEAP3.

---

**Impact evaluation (methods and results)**

**Methods**

Annual evaluation.

**Results**

The target set for the year 2012 and 2013 was met.

<table>
<thead>
<tr>
<th></th>
<th>1995</th>
<th>2000</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ex-post evaluation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>direct CO$_2$ (kt)</td>
<td></td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Energy (TJ) (Fuels/Electricity)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ex-ante evaluation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>direct CO$_2$ (kt)</td>
<td></td>
<td></td>
<td>0-500</td>
</tr>
<tr>
<td>Energy (TJ) (Fuels/Electricity)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Measure Impact Level**

- [ ] low
- [ ] medium
- [x] high
Interaction of measures

Mitigating interaction:
- TER-NLD23: Long-Term Agreement Energy transition horticulture 2014-2020

Reinforcing interaction
- TER-NLD16: Subsidy schemes (IRE, MEI, UKR, Clean and Efficient Demonstration projects)
- TER-NLD21: Innovation and Action Programme for Clean an Economical Agro sectors
- TER-NLD22: Innovation programme Greenhouse as Energy Source

Historical data

References
http://ec.europa.eu/energy/demand/legislation/end_use_en.htm#efficiency
http://ec.europa.eu/energy/efficiency/end-use_en.htm
Third National Energy Efficiency Action Plan for the Netherlands, 30 April 2014
Bute, F. Et al (2007), Emissiehandel voor glastuinbouw, Effecten van een CO2-vereveningssysteem, LEI Rapport 3.07.03, Wageningen
http://www.lei.wur.nl/NL/publicaties+en+producten/LEIpublicaties/?id=827
CO2 sectorsysteem en Energie Besparingsysteem Glastuinbouw
http://www.energiek2020.nu/co2-sectorsysteem/
http://www.tuinbouw.nl/artikel/co2-sectorsysteem-voor-de-glastuinbouw
Verordening PT CO2 sectorsysteem glastuinbouw 2011
http://www.tuinbouw.nl/sites/default/files/page/PT%20Verordening%20CO2%20sectorsysteem%202011.pdf