

Regulation

Samsø

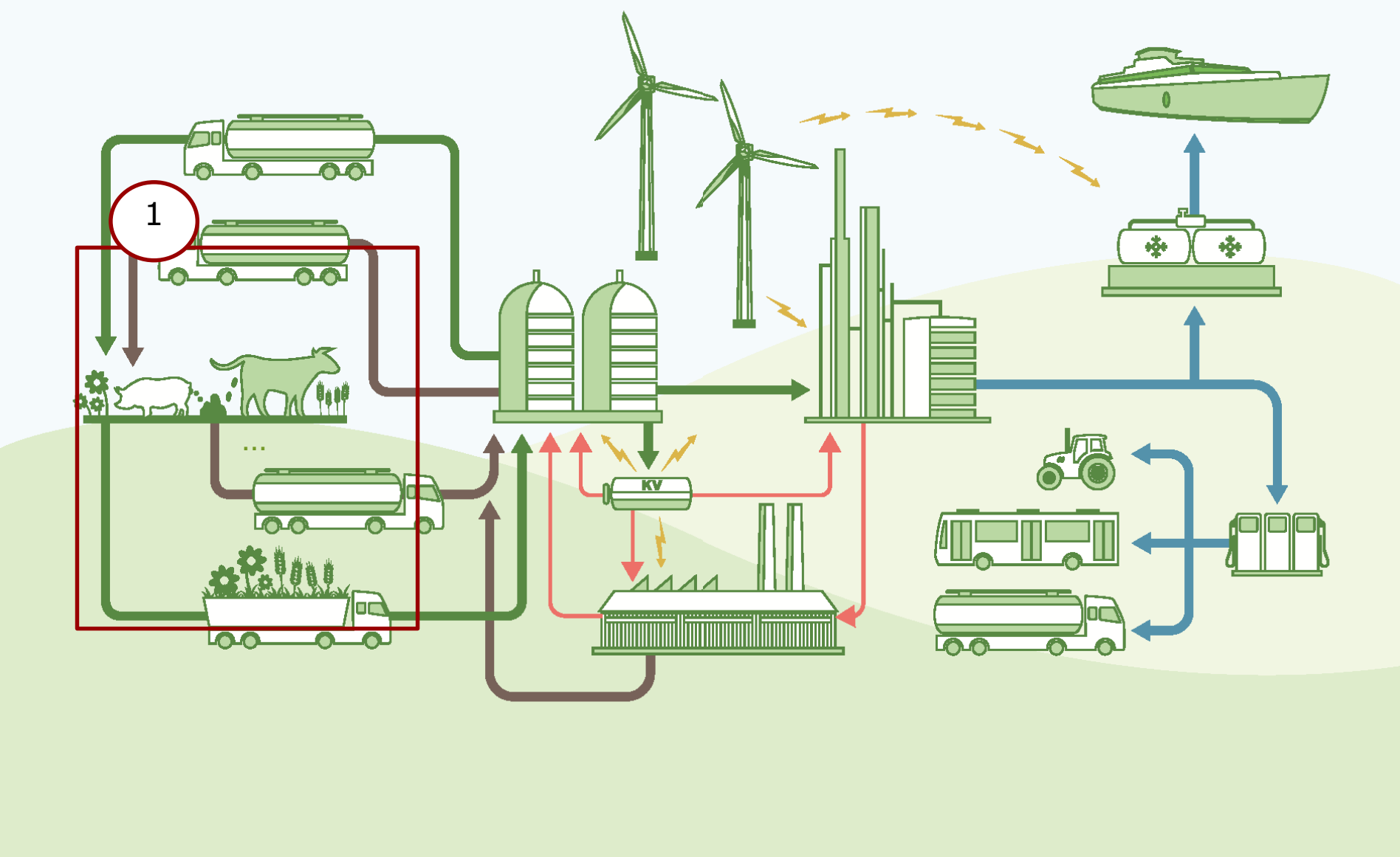
22.01.2017

Energy Agreement 2012

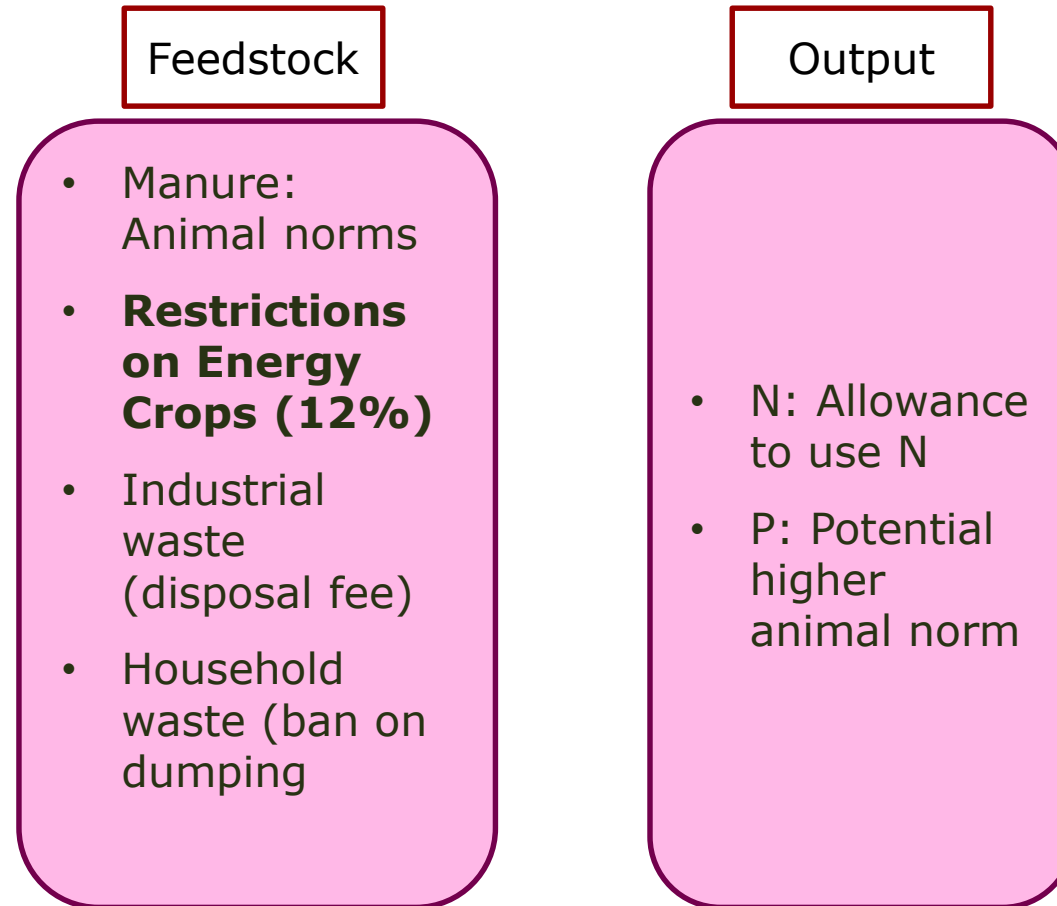
“An important challenge for Denmark is to ensure the expansion of biogas. Biogas is useful in the energy system, and the technology reduces environmental problems.”

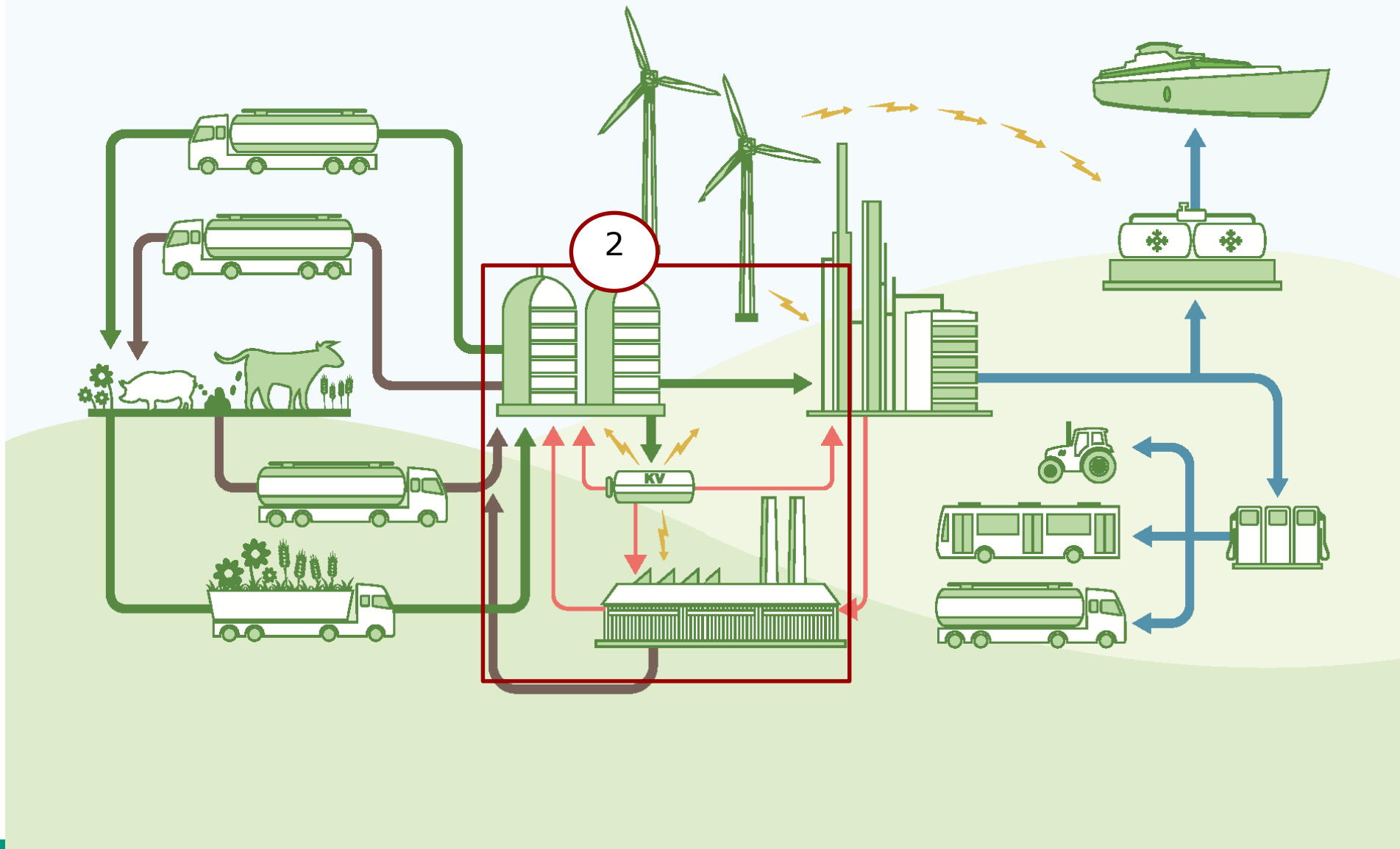


New funding scheme for Biogas



1. Biogas Input





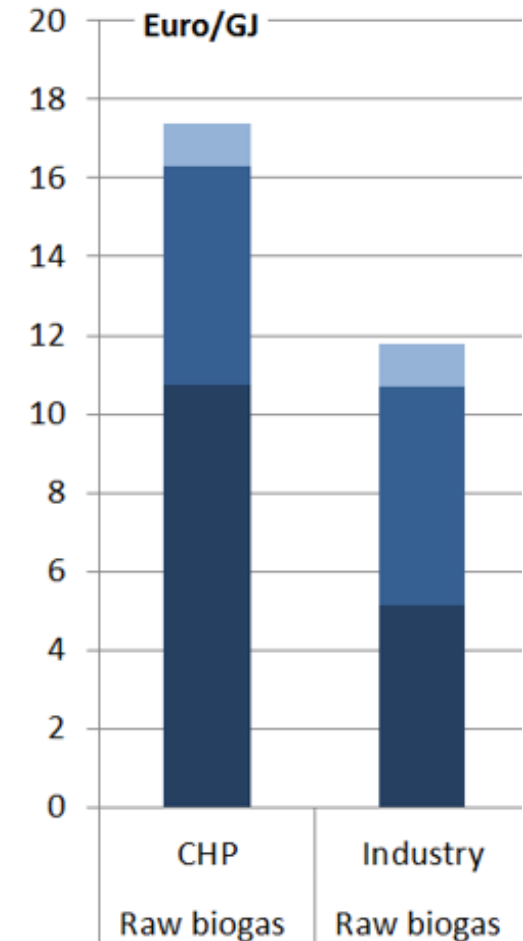
2. CHP and Industry

Tax

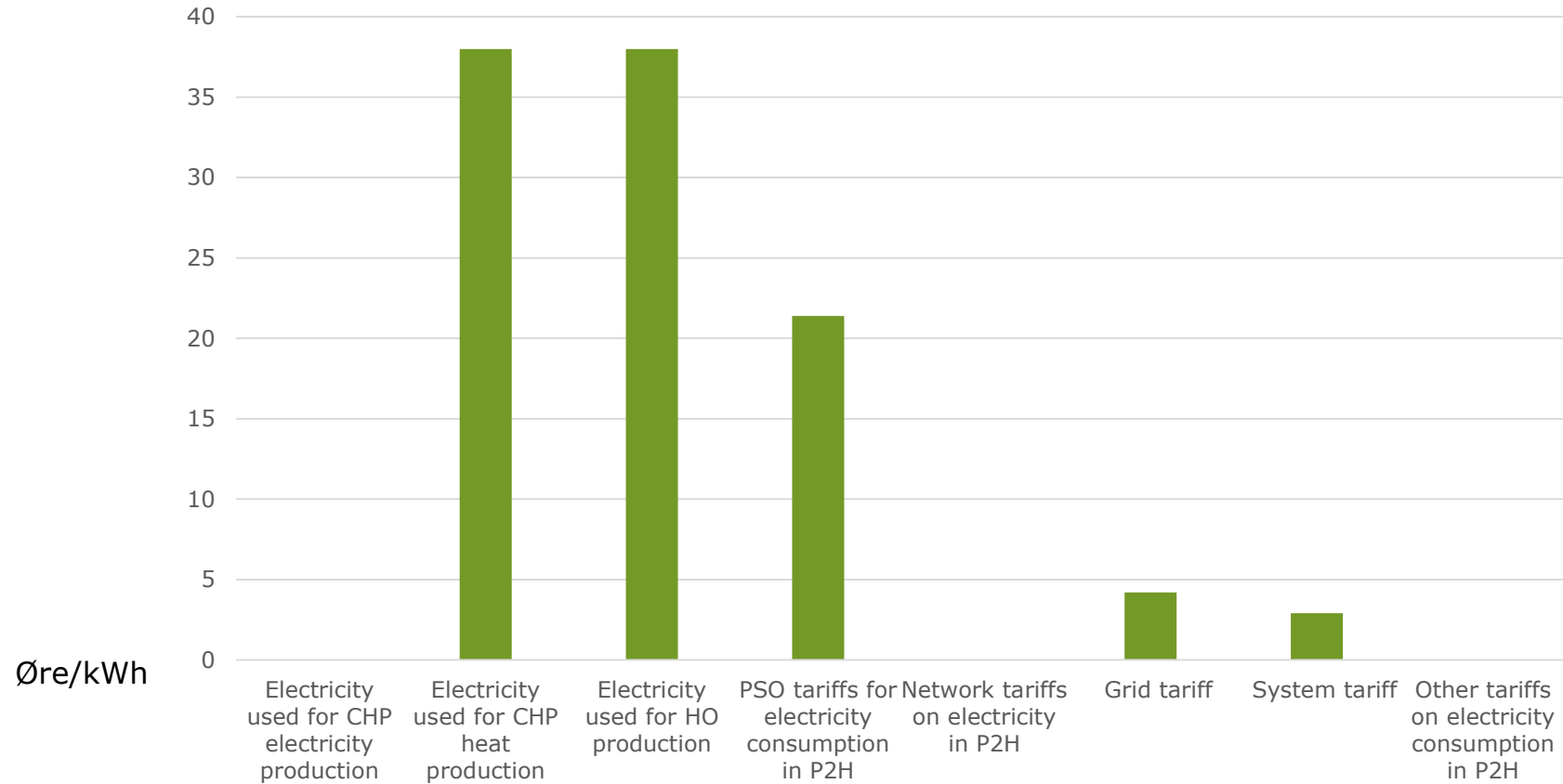
- No tax on Heat Production for heating (which there is with fossil fuels)
- *There is already tax exemption for process heat and electricity production
- NOx tax

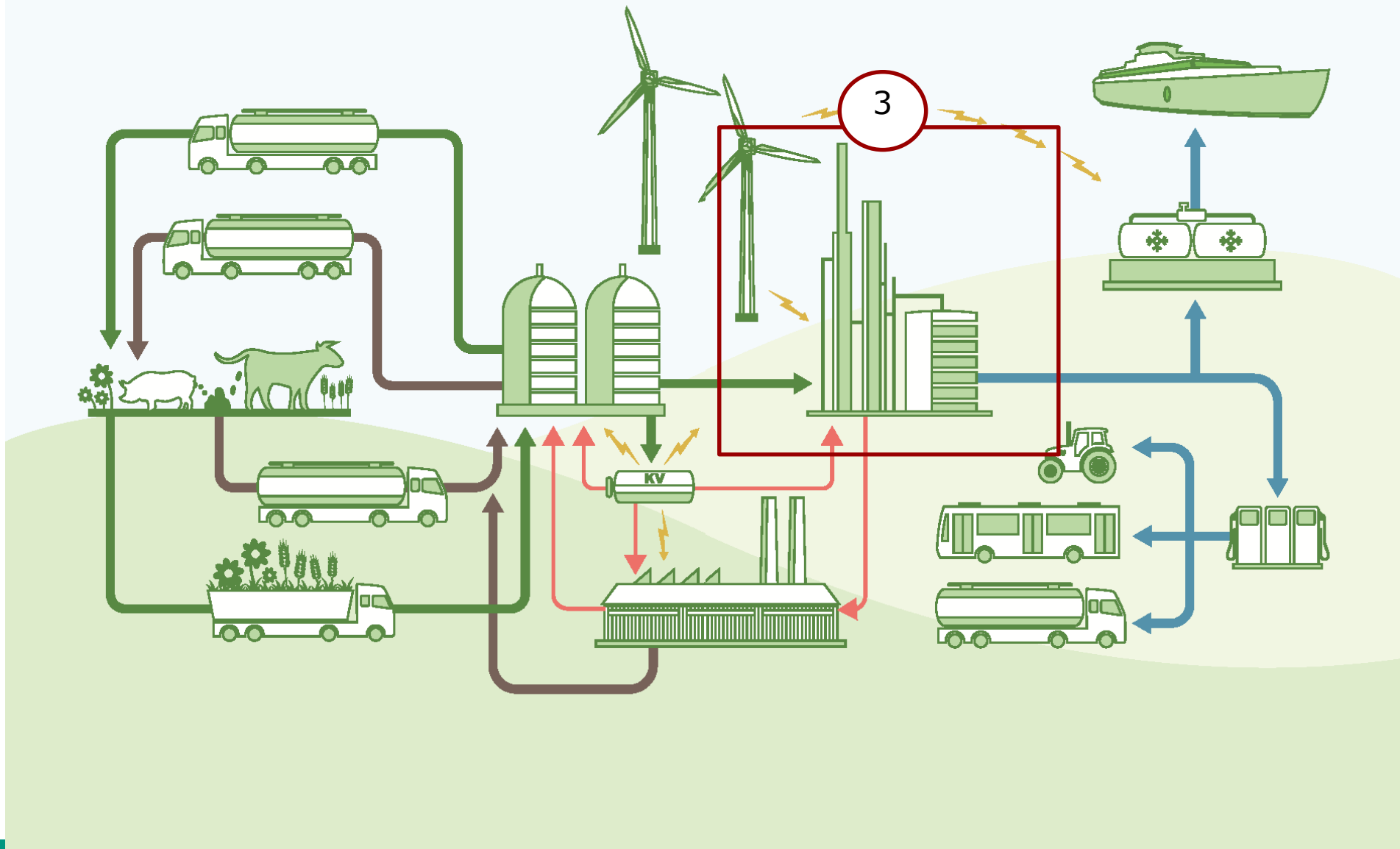
Support

- Support for biogas use in industry (equivalent to the support for transport)
- Support for CHP using pure biogas (Renewable Energy Agreement 2012):
 - **Fixed settlement price:** 0,793 DKK/kWh (from 2012)
 - **Price supplement 1:** 0,26 DKK/kWh
(Increases in case of a reduction in the price of NG)
 - **Price supplement 2:** 0,10 DKK/kWh
(set to a fixed gradual reduction from 2016 and will be repealed in 2020)



Taxes and tariffs in electricity consumption for CHP's





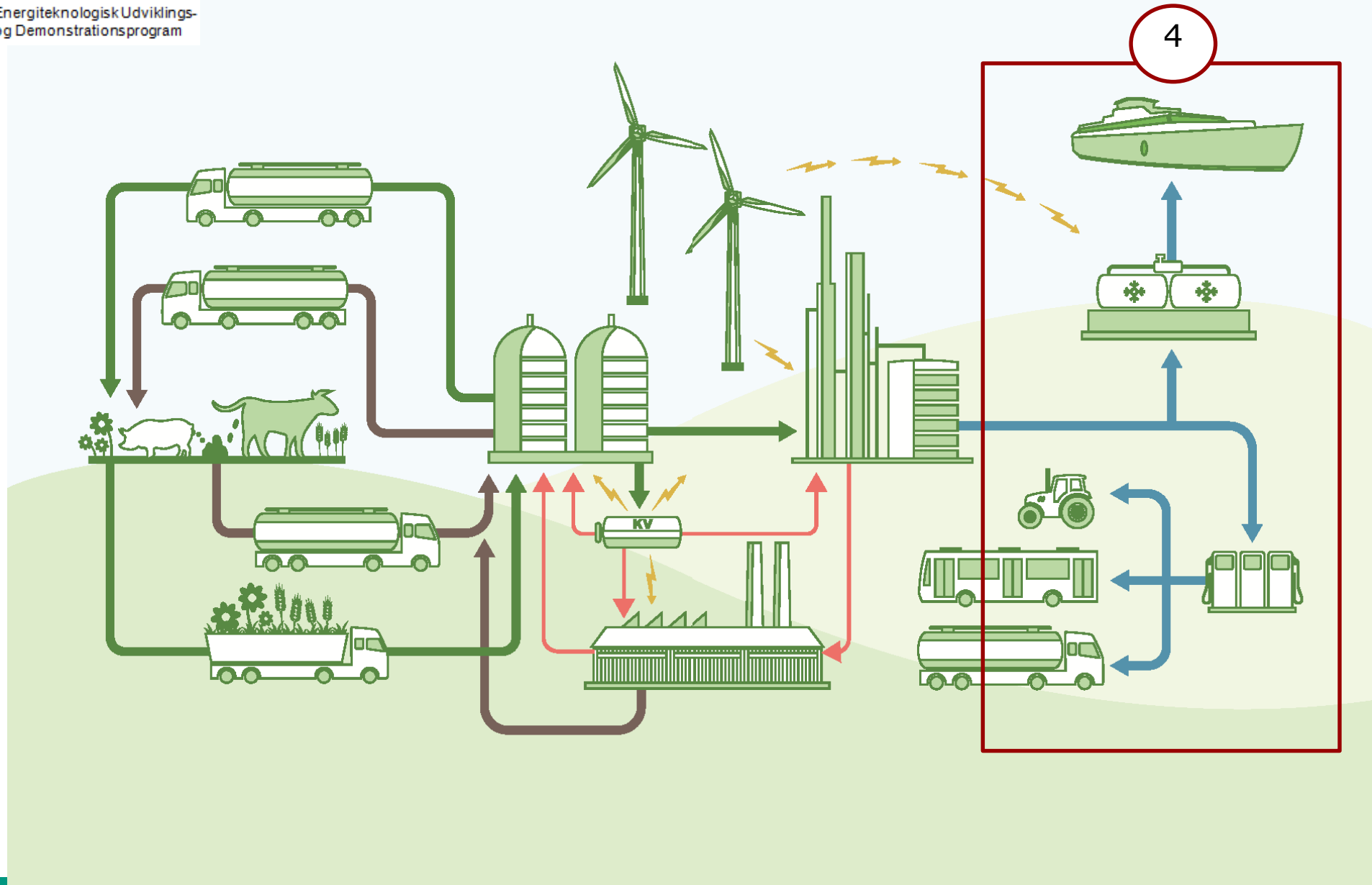
3. Biogas Upgrading

Tax

- With relation to methanation
 - the power tax is expected to be low – as for process
- Bio Natural Gas (BNG) is taxed as Natural Gas when upgraded for the gas grid, however not if NOT injected to the gas grid

Support

- No support for Samsø
 - Only BNG which is injected to the Danish gas grid is subject to the support scheme
- Certificates given by Energinet.dk can be exchanged for CO2 quotas
 - otherwise no support



4. CNG and LNG Production/Consumption

Tax

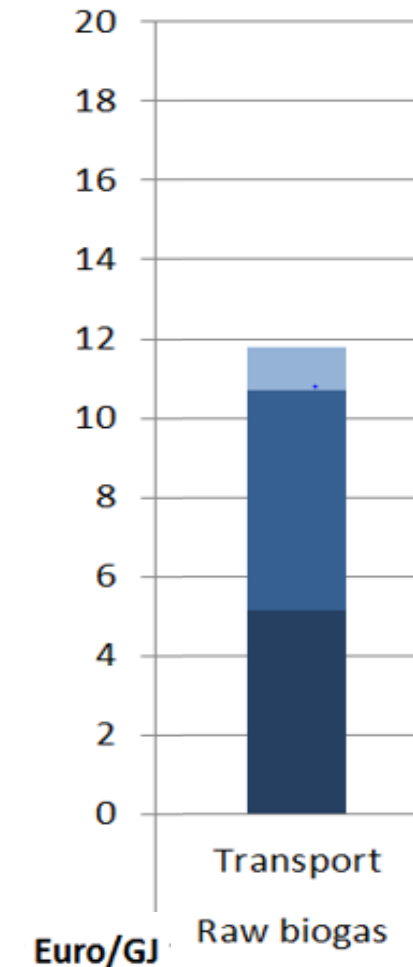
- Tax level as for process energy
 - with regard to electricity consumption for LNG-production
- Tax on biogas for transport – probably low EU-level

Support

- Support for Biogas for transport, according to the **calorific value**
 - **Fixed settlement price:** approx. 39 DKK/GJ (from 2012)
 - **Price supplement 1:** approx. 26,25 DKK/GJ
 - **Price supplement 2:** approx. 10 DKK/GJ

Other Regulation

- Emission Control (Sox and Nox)
- CO2 quotas for shipping (in progress)
- Blending Obligation: 5.75%, Danish biogas is counting double if...

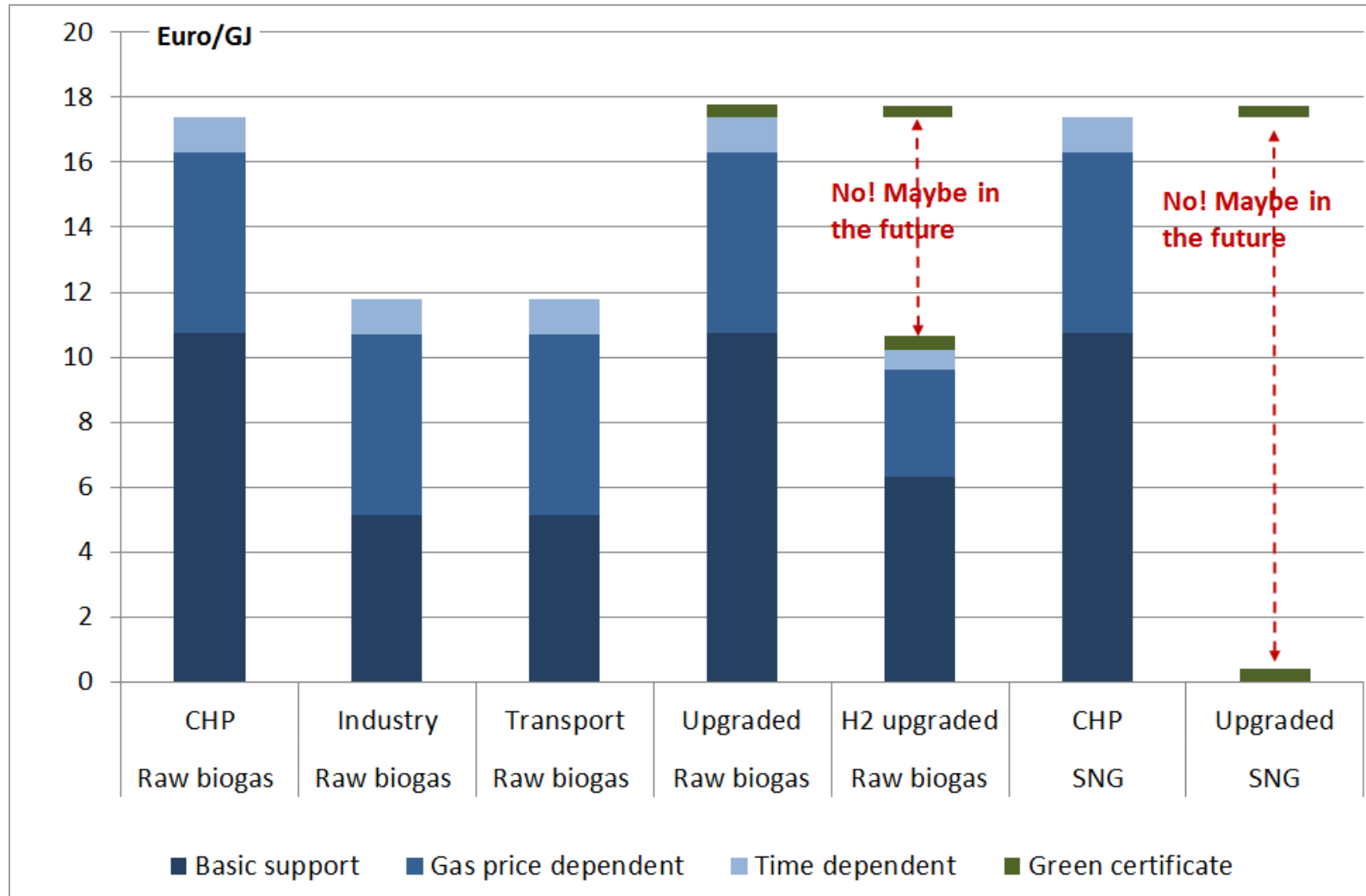


Guarantees of Origin

Directive proposal for 2021

- Extended to cover RE-gas
- Should facilitate cross border-trade of RE-gas
- Showing to a final customer that a given share or quantity of energy is RE
- Can be transferred independently of the energy to which it relates
- Double counting should be avoided
- If GO related to an amount of energy has been sold, this energy should not be sold as renewable energy

Overview support



Ideas and Outlook

- Virtual Upgrading
 - Decentral physical use of biogas and virtual injection into the grid
- Certificates for LNG and CNG
- Guarantees of Origin

Thank you for your attention