

Sustainability criteria implemented for stationary bioenergy in Flanders (Belgium)

November 29th 2010



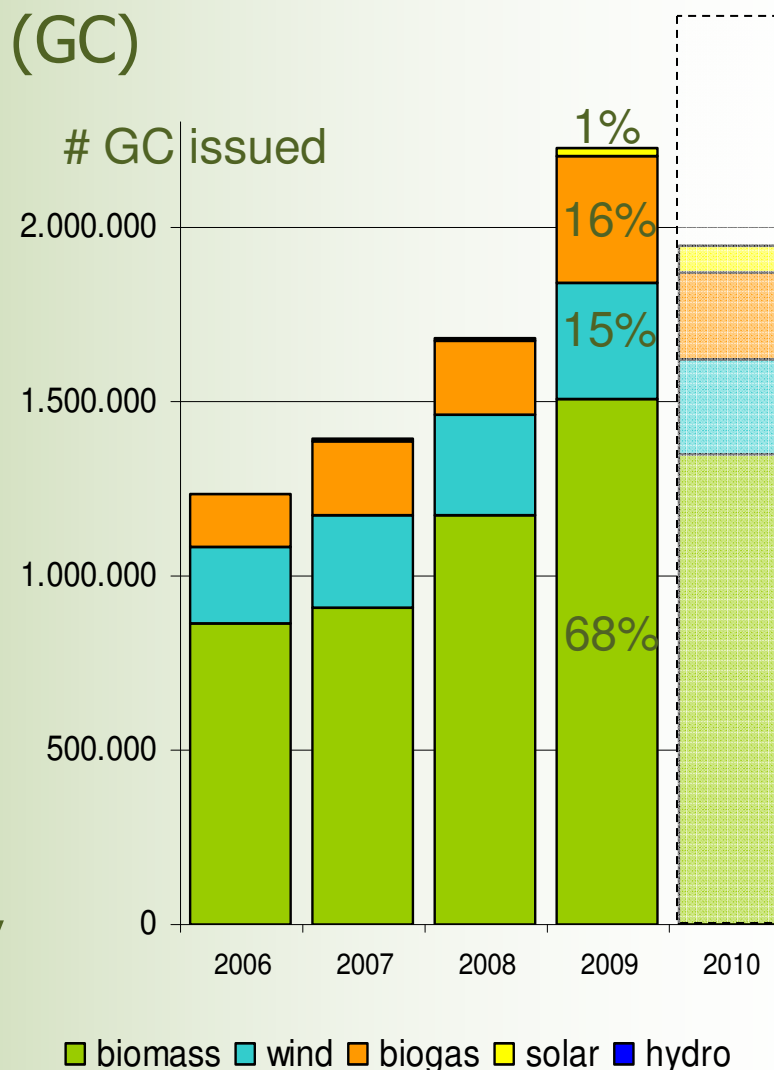
Current support scheme

⚡ Tradable Green Certificates (GC)

- 1 GC = ±107€ = 1 MWh **net green electricity**
- Minimum prices technology specific
- Yearly quatum

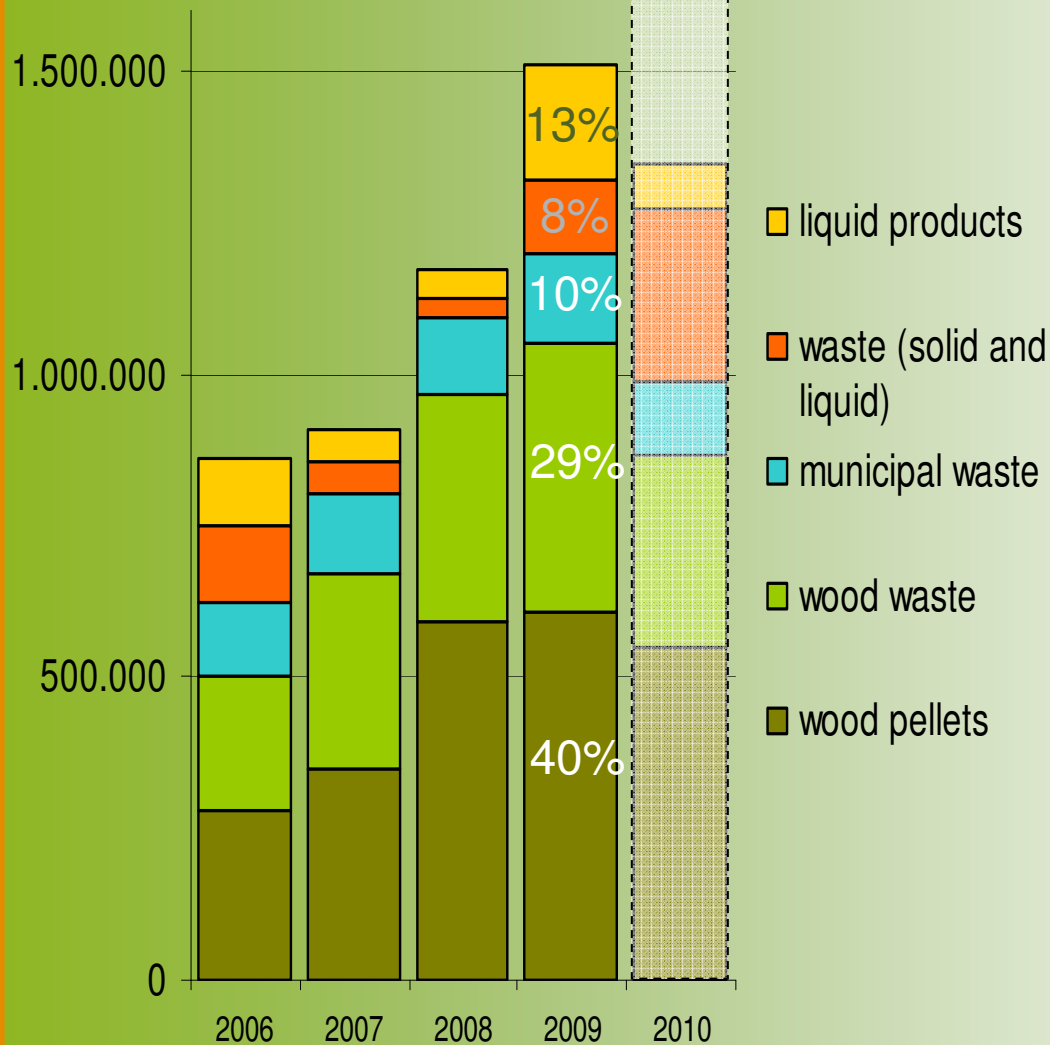
⚡ Results since 2002

- Quota were met since '06
- 5,25% in 2010
- 85.000 solar panel installations
- 219 other installations
- Absolute growth in GC mostly due to **biomass**



Biomass

GC issued for biomass



Relative importance '09

- 68% of all GC are produced from biomass, of which
 - ± 83% is solid biomass
 - ± 55% is import imported

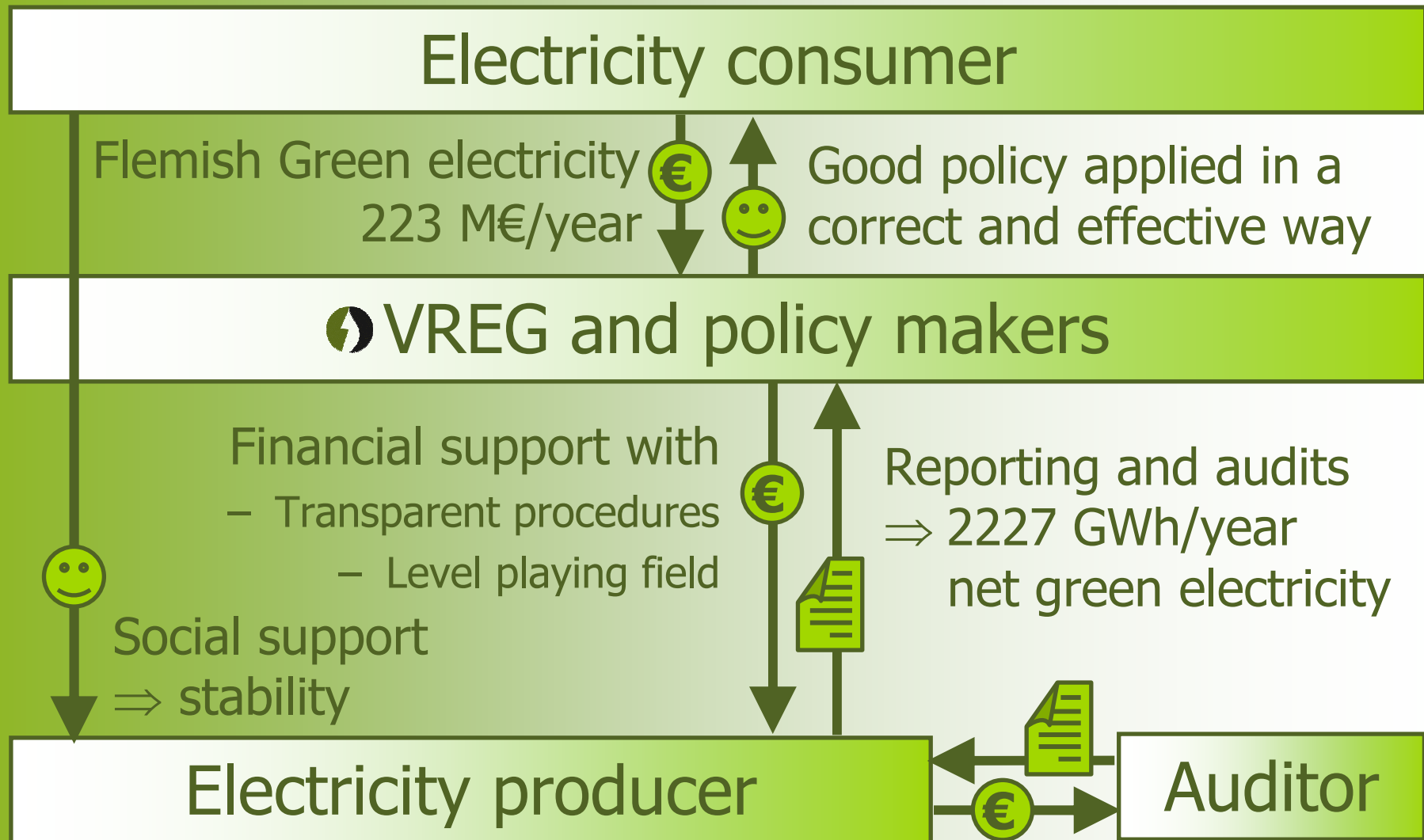
In absolute data '09

- Flemish society paid
 - ± 161 M€/year for biomass
 - ± 135 M€/year for solid "
 - ± 518 kton/year import

This is why

- Framework for (solid) biomass is of utmost importance
- Net green electricity is calculated

Current support scheme



Current support scheme

⚡ Net green electricity (in MWh)

= Electricity produced on site

- Energy needed for the electricity production on site
- Energy needed for production of biomass
- Energy needed for transport of biomass

⚡ How are these terms determined?

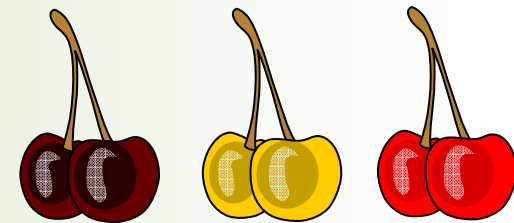
- On site inspection, followed by monthly reporting based on measurements
- **Audit procedure**, followed by monthly reporting
- Primary energy is converted to electric equivalent

Current audit procedure

- ⚡ 68 suppliers have an audit approved by VREG
 - Large electricity producers have many biomass suppliers
 - Large biomass suppliers deliver to many electricity producers
 - Small electricity producers produce their own biomass
- ⚡ Current audits cover
 - Origin of the biomass waste/residue or product
 - Chain of custody: harvest, all processing, transport
 - Mass balance: paper trail complemented with declarations
 - Calculation of the energy needed for processing and transport
- ⚡ Timing
 - Audit must be approved before GC are issued for that biomass
 - Audit must be repeated every 2 years, at that time a control of the mass balance for the past 2 years is performed by VREG

Concluding

- ⚡ Binding sustainability criteria for all kinds of biomass
 - 68% of the GC are produced from biomass
 - 83% of this biomass is solid
- ⚡ Prevent “cherry picking”
 - Calculations
 - Can lead to differences up to 20%
 - Standardised values and calculation-methods:
RED transparency platform, ww.BioGrace.net
 - Competition for biomass by member states
- ⚡ Harmonisation is needed
 - Prevent double-counting
 - Controls are much more effective when automated and centralised in a monitoring database



Thank you for your attention



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