The State and Future of Bioenergy
Sweden
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Sven-Olov Ericson
Dep Director,
Ministry of Enterprise, Energy, and Communications
sven-olov.ericson@enterprise.ministry.se
+46 8 405 24 02
Bioenergy – Swedens’ # 1

In 1975; 80 % fossil

Today 50 % renewables

...of which 32 % bio
Logging residue
~6-7% of biomass harvest: energy (branches and tops (and stumps))

Annual cut ~ 90 mill m³

Due Diligence - Regulation

RED

- 46% pulpwood
- 23% energy (black liquor, etc)
- 36% Pulp & Paper
- 16% Pulp chips
- 20% Sawn wood
- 13% energy (bark, sawdust, etc)
- 8% energy (direct harvest)
Trend for total standing volume since 1926

Million m3

- Döda träd: Dead or windthrown trees
- Lövträd: Broad-leaved
- Gran: Norway spruce
- Tall: Scots pine

Ministry of Enterprise, Energy and Communications Sweden
ownership of Swedish forests

- private individuals 50%
- private companies 25%
- state owned companies 14%
- other private owners 6%
- state 3%
- other public 2%
USE OF BIOENERGY IN SWEDEN

- Biofuels for transport
- Residential heating
- Bioelectricity in district heating
- District heating
- Bioelectricity in industry
- Industrial use
- Black liquor
District heating in Ostersund
The Swedish pellet market (t/yr)

Source: Swedish Association of Pellets Producers
... a million $m^3$ solid at Byholma
- illustrates the long term growth rate, 2-3 TWh/yr