

WILLOW VARIETIES FOR BIOMASS PRODUCTION

Stig Larsson
European Willow Breeding AB

Short rotation willow coppice

- harvest interval, 2-4 years
- first harvest 3 years after planting
- shoots regrow from stumps after harvest
- is easily removed if the soils are decided for other crops



*Plant protected, certified SRC willow varieties
from 1990 to 2015*

Orm, Ulv, Rapp, Björn, Jorr, Tora, Jorunn, Unn, Astrid, Ingun, Jodis, Aud, Loden, Osk, Ivar, Halla, Helga, Hild, Valborg, Sven, Torhild, Olof, Asgerd, Gudrun, Tordis, Inger, Sherwood, Doris, Karin, Terra Nova, Nora, Klara, Stina, Lisa, Dimitrios, Linnéa, Wilhelm, Erik, Birgit, Estelle.....Winter, Ester, Emma, Bella

- male varieties
- female varieties
- hermaphrodite

Varieties are made for different climatic areas

Orm, Ulv, Rapp, Björn, Jorr, Tora, Jorunn, Unn, Astrid, Ingun, Jodis, Aud, Loden, Osk, **Ivar**, Halla, **Helga**, Hild, Valborg, Sven, Torhild, Olof, Asgerd, **Gudrun**, Tordis, Inger, Sherwood, **Doris**, **Karin**, **Terra Nova**, Nora, **Klara**, Stina, Lisa, **Dimitrios**, **Linnéa**, Wilhelm, Erik, Birgit, Estelle.....**Winter**, **Ester**, Emma, Bella

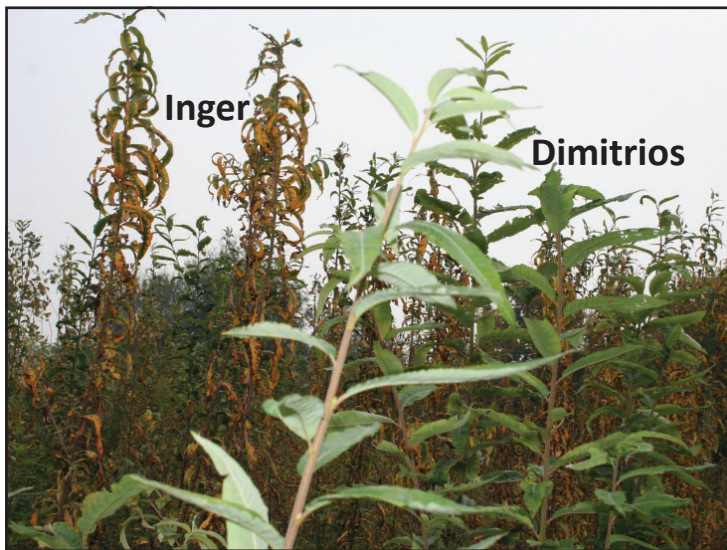
- Frost tolerant varieties
- Heat tolerant varieties

Still produced and marketed varieties

Tora, Sven, Tordis, Torhild, Olof, Inger, Terra Nova, Klara, Linnéa, Wilhelm, Erik, Estelle.....Winter, Ester, Emma, Bella

- SW/Lantmännen varieties
- EWB varieties

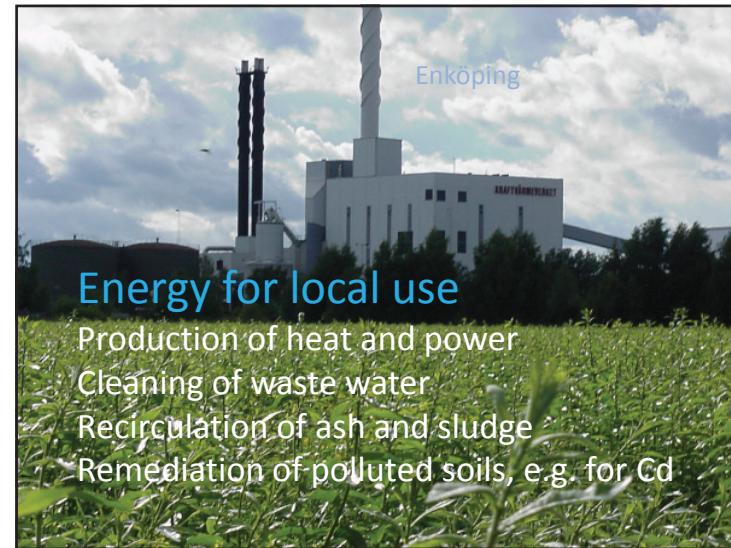
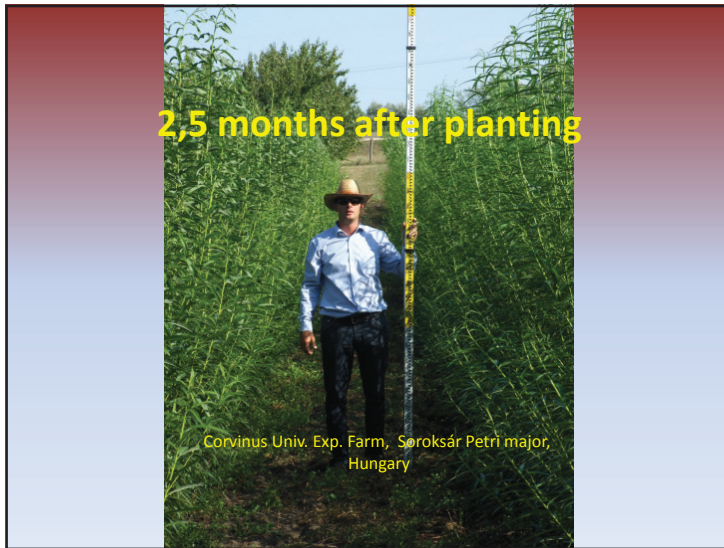













Environmental aspects



- No insecticides are used
- No fungicides are used
- Limited amount of herbicides are used
- No gene modification
- Limited use of machineries
- Energy ratio 1:20

Plant Salix for energy, public health and environment

- ***plant renewable energy***
- ***remove cadmium from your arable soils ****
- ***plant on the ecological focus area***
- ***create biological variability***



* It is expected that a willow plantation over 5-6 years, with two harvests cycles, will remove about half of the cadmium content in the root zone of actual soil!

EWB license partners

- Rosenhälls gård Energi AB, Billeberga, **Sweden**
- Danling Growing, Ikast, **Denmark**
- Bionova Hungary Kft., Budapest, **Hungary**
- Ekoinnowacje Jan Bocian, Lodz, **Poland**
- SIA Latvijas Bioenerģijas Kompanija, Riga, **Latvia**
- Salix Energy, village Strilche, **Ukraine**
- Kubeshop s.r.o., Bratislava, **Slovakia**
- Billy & Thomas, **Ireland**
- ABAHOY Co Ltd, **Finland**

New license partners are welcome to start production and sale of our EWB willow varieties!

