



Biomasse at Slavuta Malt House

How to get green Energy in Ukraine



◆ Assessment

- ◆ Energy is the first cost (30 to 40%) in a malting plant activity after raw material
- ◆ Increase of gas cost is impressive every year, with no sign of improvement (2012 assessment)
- ◆ The malting plant issues 13 000t of useless by-products (no value):
 - Dust of barley & Malt
 - Small grain
 - Rootlets
 - Grains rubbish

◆ Biomasse Maltering of Slavuta

- ◆ Development of a technology to burn by-products without necessity to produce pellets before
- ◆ The heat value of by-product allows to replace 40 to 50% of the gas needs
- ◆ Return on investment: 4 years !



Where to implement a biomass plant



◆ Biomasse: Project planning

- ◆ Process engineering: « Soten » + « Compte-R » + « Soufflet »
- ◆ Adaptation to Ukraine standard: company « Beten »
- ◆ Equipments:
 - Boiler: « Compte-R » via Belarus sister company
 - Handling & storage: « BSP »
 - Civil Engineering: « Aertle Bud »
 - Automation: Local company

- ◆ Project design: 8 months
- ◆ Building period: 12 months
 - NB: works were done during the dramatic moments in Ukraine at the end of the year 2013 & beginning of 2014

BIOMASSE PLANT





◆ IMPORTANT TOPICS FOR A BIOMASSE INVESTMENT

- ◆ Well prepare the 'building permit' & 'working permit' / hard to obtain
- ◆ Choose carefully the 'green fuel' to not depend too much on a « market price »
- ◆ Choice of companies & especially the general contractor
- ◆ Include the training of personal in the project & enough spare parts
- ◆ Choose a robust technical solution / low local service after work done
- ◆ Financing: solution exists for big projects, it remains difficult for small to intermediate ones...