

Farnley Tyas Community Heating

Presented By

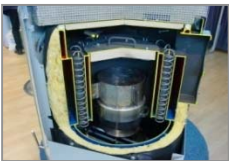
Gideon Richards

CEO, Consulting With Purpose Ltd.

6th. November, 2008



Farnley Tyas Community / District Heating



Content

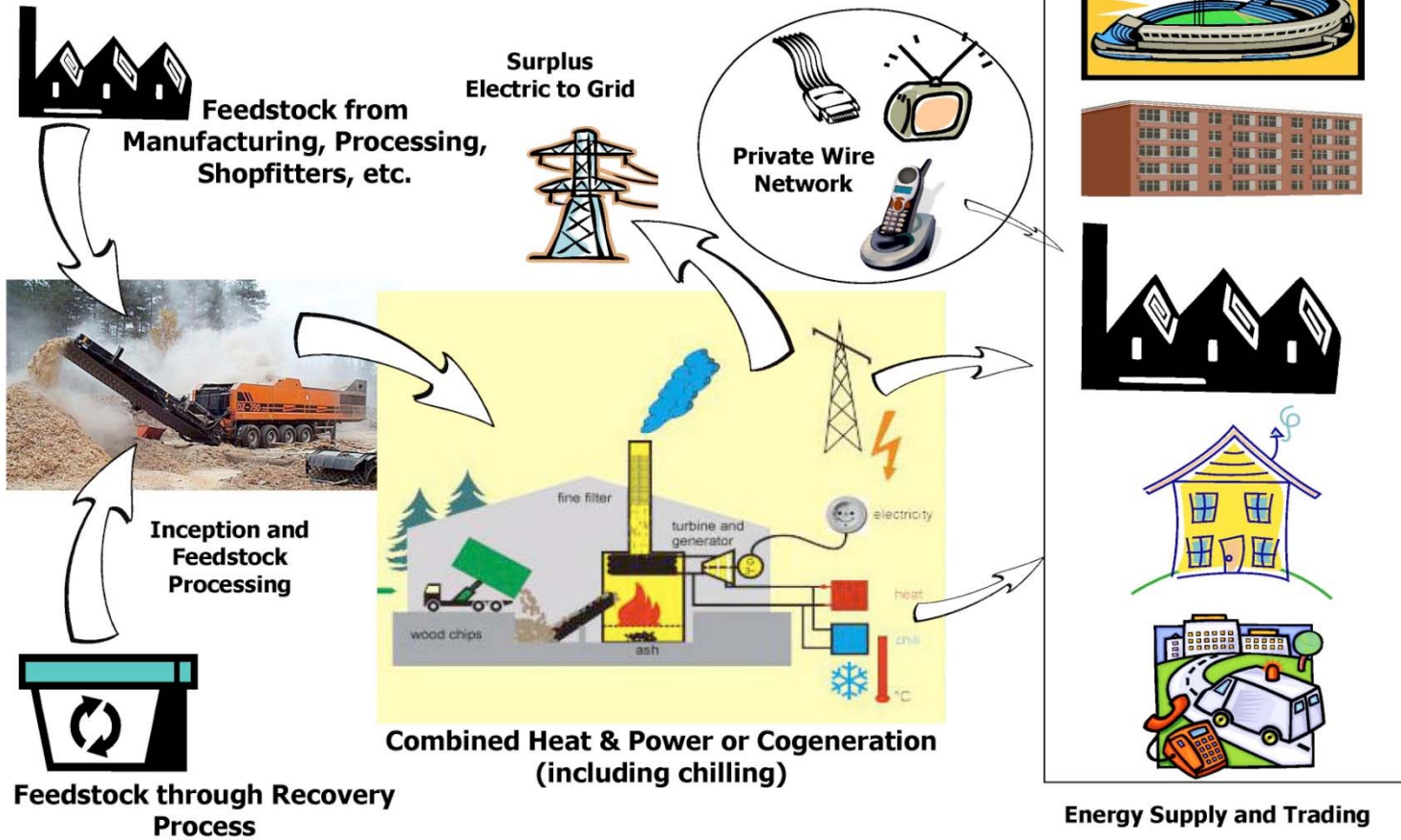
- What is community / district heating and Combined Heat and Power (cogeneration)
- What are the opportunities
- Why here?
- What to expect
- Summary



Pfaffenhofen Biomass District CHP



District CHP, Cogeneration and Private Wire Network





Household Control Panel & Integration to other Renewables

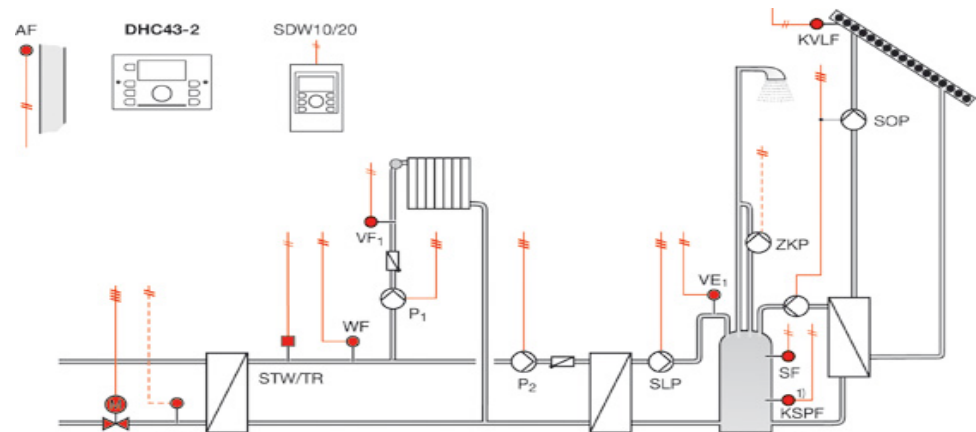
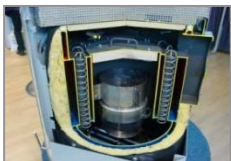


Figure – Left - Swedish Domestic Heat Exchanger; Right - Honeywell District heating, direct heating circuit, DHW with heat exchanger, solar circuit



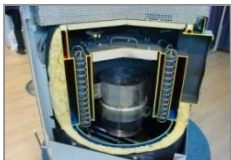
Household Control Panel & Integration to other Renewables



Heat Main – Courtesy of Flexenergy



Pfaffenhofen Biomass District CHP



exterior views of the biomass
co-generation plant Pfaffenhofen



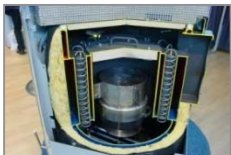
With the right
conception the
biomass
cogeneration
plant fits
harmoniously
in the
surroundings.



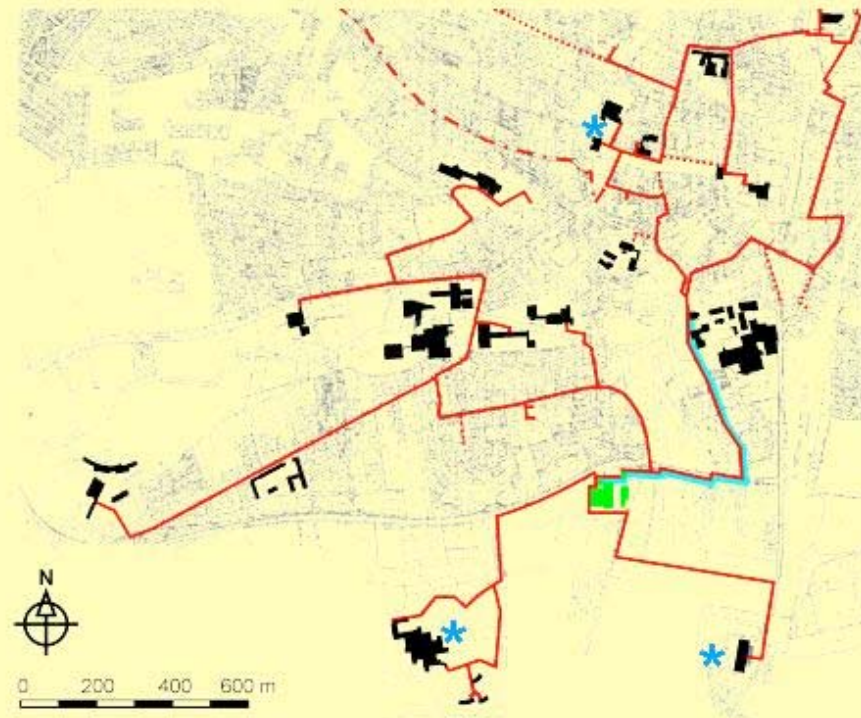
"Biomass co-generation plant Pfaffenhofen"



Pfaffenhofen Biomass District CHP



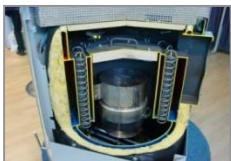
map of the district heating system
part of the grid



"Biomass co-generation plant Pfaffenhofen"

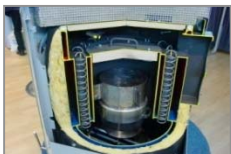


Biomass Storage and CHP Plant Room for District Heating



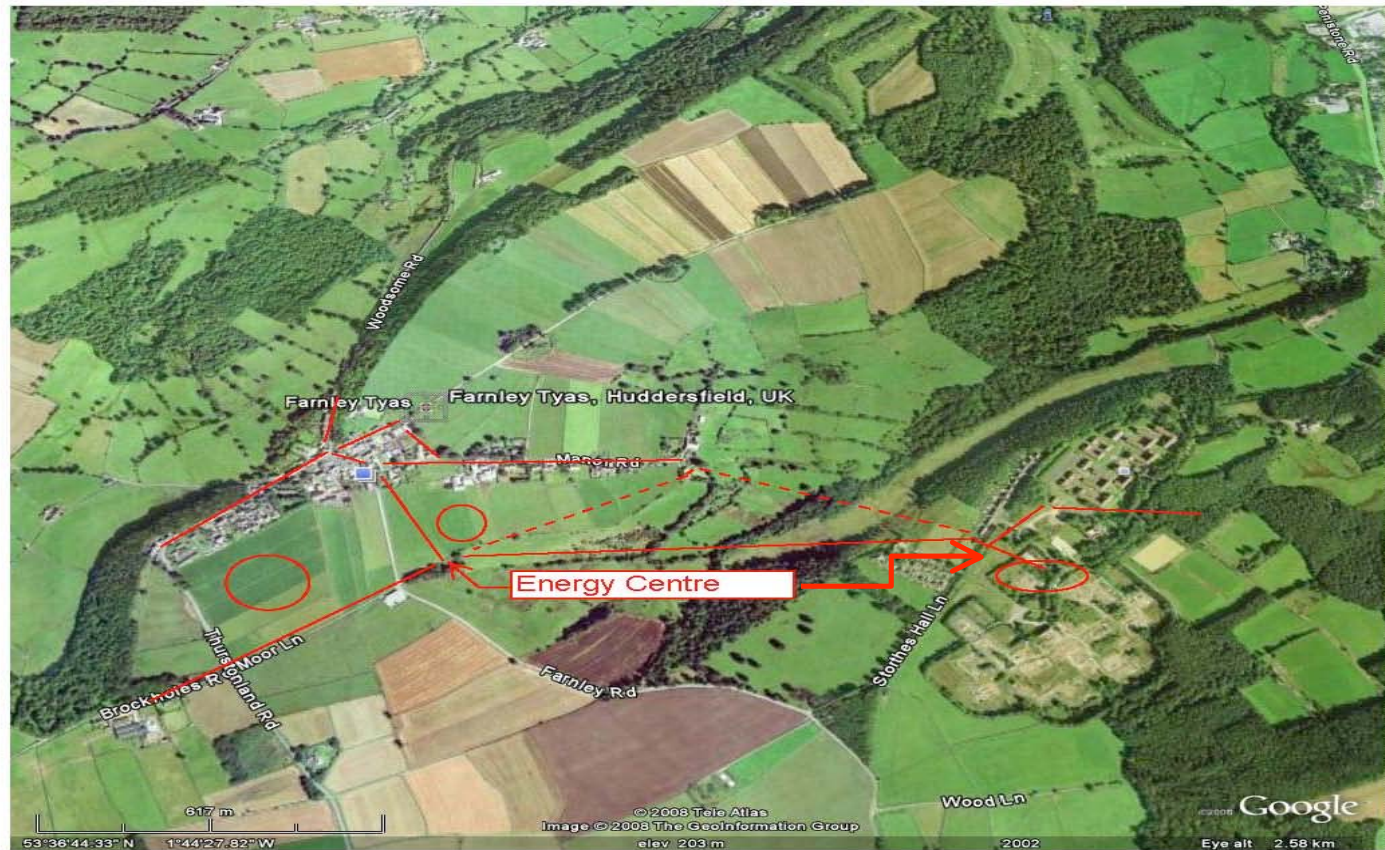


Biomass Storage and CHP Plant Room for District Heating



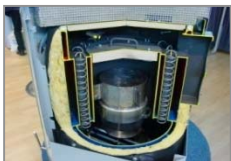


Farnley Tyas Potential



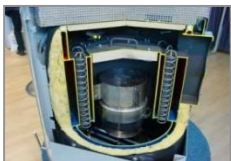


Biomass Storage and Plant Room for District Heating



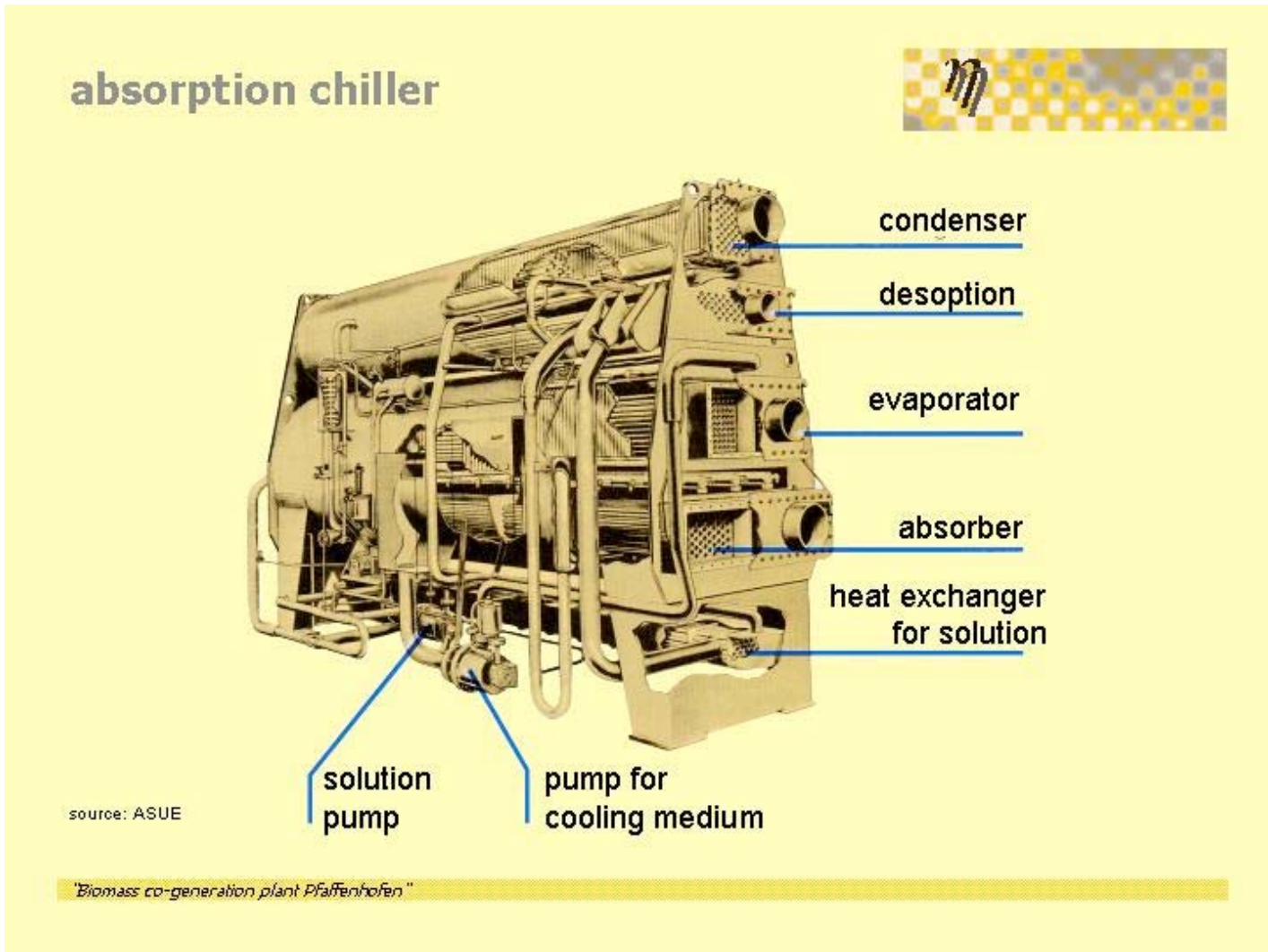
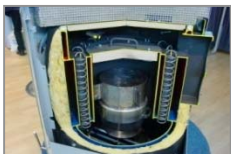


Drivers for Biomass



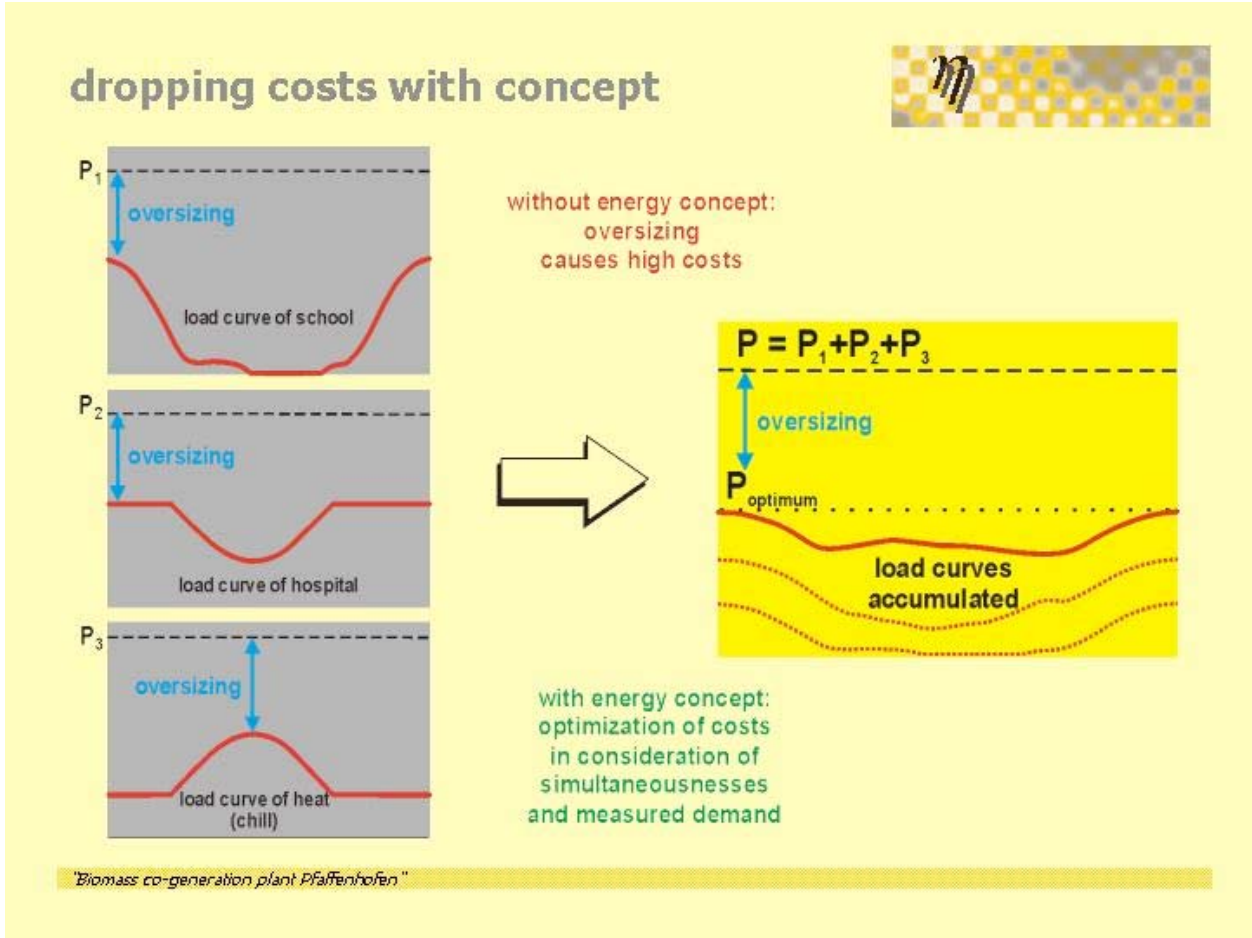
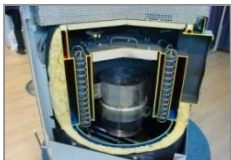


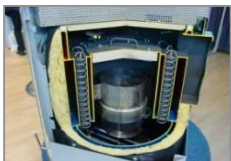
Absorption Cooling





Heat Load Curve





Thank You!

Gideon Richards
Chief Executive Officer

Consulting With Purpose Ltd

+44 (0)7976 734603

gideon@cwp-ltd.com