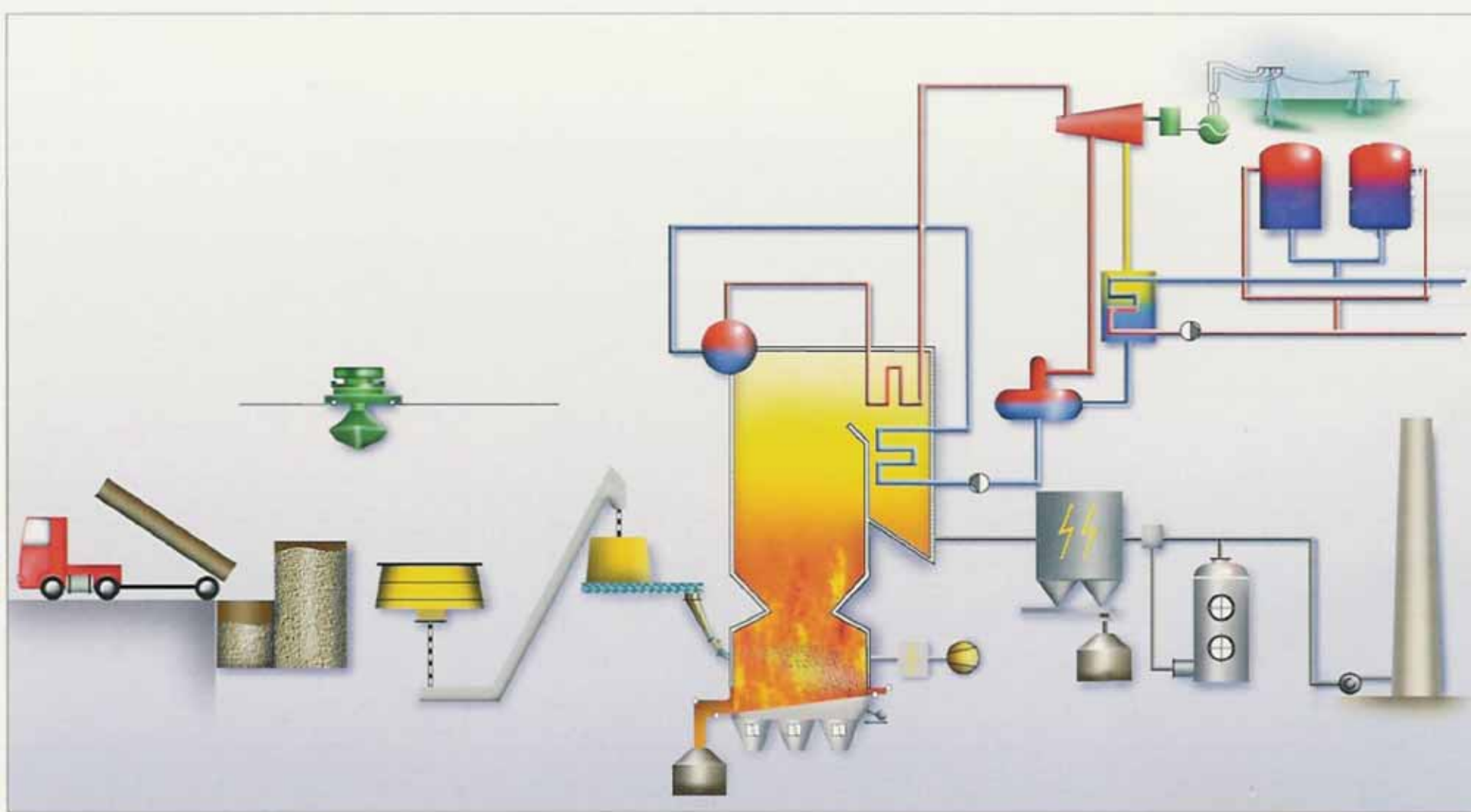




Assens District Heating

Manager John Jessen

Biomass Fired CHP Plant





Assens Fjernvarme A.m.b.a.
Stejlebjergvej 4
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Production

Input	17,3 MW
Power generation	4,7 MW
Heat production	10,3 MW
Exhaust condenser	3,5 MW
Pressure	77 Bar
Steam temp.	525°C
Annual production	ca. 110.000 MWh
From this an annual production of electricity	ca. 27.000 MWh
Fixed price of electricity	80 Euro



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General information

Annual fuel consumption: 450.000 GJ

Wood chips and logs: 43.000 tonne

8 Contractors: 1/3 from Baltic States and Poland



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Logistic



Prediction and consumption by the month

2005/2006

	Brændsel GJ		Brændsel BI		eta sum		u.røg	Varme produktion B II		Var u røg
	prog.	faktisk	prog	real	prog	real		prog.Mwh	Real Mwh	
Juni	5.882	8.914	6.323	7.031	80	84,4	84,2	931	1.503	1.499
Juli	9.660	6.518	4.688	5.791	80	76,0	75,8	1.529	1.054	1.050
Aug	15.967	17.918	0	0	80	82,3	82,1	2.526	2.964	2.953
Sept	15.954	17.888	0	0	80	84,2	84,0	2.524	2.990	2.979
Okt	39.760	28.639	0	0	80	86,6	86,4	6.291	4.895	4.880
Nov	48.791	42.069	519	0	81	88,4	82,8	7.852	7.465	6.813
Dec	53.148	50.572	1.354	1.321	87	95,9	84,2	9.384	9.983	8.344
Jan	55.148	50.971	2.337	6.424	92	88,5	83,5	10.551	10.671	8.340
Febr	49.795	45.386	2.603	3.073	91	100,3	84,9	9.471	9.496	7.560
marts	53.089	49.925	1.091	3.711	85	84,1	85,0	9.161	10.170	8.311
april	45.155	43.053	375	0	81	88,5	85,7	7.233	7.573	7.245
maj	26.015	22.161	25	2.917	80	84,1	84,0	4.116	3.697	3.685
	418.364	384.014	19.315	30.268	85	92,5	84,2	71.569	72.461	63.659

Supplies in the future

DK use 1,5 mill. ton

Danish prod. 1 mill.

20% at 2020

Willow (200 GJ/ha/year)

bark – washed roots –
yard waste

