How to boost energy production from waste?

Amsterdam's Vision on the 4th-generation Waste-2-Energy

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4th generation Waste-2-Energy









HR-AVI project = WFPP

Starting points

- Systematic approach to optimise recovery
- Using proven technologies in new combination
- Electrical efficiency > 30%
- New logistic concept
- Budget: 400 M€
- Construction start: Begin 2004
- Completion: End 2

End 2006



CONCEPT for RECOVERY









Sketch boiler design



Sketch steam reheating





Boiler WFPP











Construction of WFPP in Amsterdam



Operational results

Net electrical Efficiency WFPP First half-year: Monthly averages + Best day per month







- 1st year of operation.
- Operation is good: input from experience of Amsterdam worked out well.
- Boiler & Flue gas cleaning perform better than expected.
- Optimisation for material recovery from flue gas
- New project for wet bottem ash cleaning in 2010.
- Net Energy efficiency of >30% Proven.

