

# WTE-plant Vestforbrænding

## Main parameters:

450kt/a of waste

4 active lines

Biggest WTE-plant in Denmark

Feed forward grid, 2 x 6 zones



## Defined optimisation targets:

- Reduction of steam control deviation by  $\geq 25\%$
- Reduction of fire length deviation

## Reasons to decide for the PiT


### Navigator:

- adaptivity
- easy handling
- guaranteed results

# Comparison PiT-Navigator vs traditional Controller

## - Vestforbranding


- Traditional controller: 2009/02/12 - 2009/03/13
- PiT-Navigator: 2009/03/13 - 2009/03/19

	PiT Navigator <b>ON</b>	PiT Navigator <b>OFF</b>	
	Average	Average	Difference
Control deviation steam [t/h]	1,36	1,93	<b>29,5%</b> 
Steam production [t/h]	104,88	103,22	<b>1,6%</b>
Throughput [t/h]	29,91	27,49	<b>8,8%</b>
Calorific value [MJ/kg]	11,34	12,38	<b>-8,4%</b>
O2 [Vol%]	5,87	6,00	<b>-2,2%</b>
CO [mg/Nm3]	6,98	7,29	<b>-4,3%</b>
NOx [mg/Nm <sup>3</sup> ]	161,43	161,8	<b>-0,2%</b>
SO2 [mg/Nm3]	6,8	7,29	<b>-6,7%</b>

PiT Navigator is accepted very much by management and operators



**Result:**  
Smooth running,  
increased throughput  
with reduced emissions

 = warranty >= 25%

# Comparison PiT-Navigator vs traditional Controller

## - Vestforbranding

Vestforbraending control deviation steam

