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1



From project to product - the short story

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2



- Goal (2003)

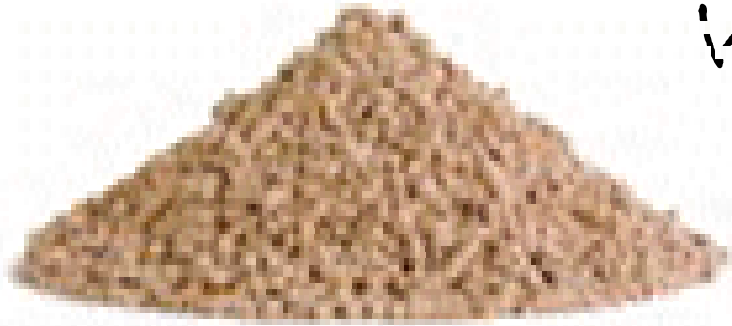
- Make the first norwegian pellet-oven



- VÍSIÓN

- To make the best pellet-oven ever
 - Highest environmental score
 - Most effective
 - Dedicated focus on design

Why pellets?



- Convenient and easy operated
- Push-button or timed ignition
- 24h temperature control
- Easy fueling
- Very clean, no dust
- Cozy fire
- Saves the environment
 - Pure wood
 - High combustion
 - Minimized particle-outlet
- Good energy-economy
- Electronic optimized combustion
- Could use existing chimney
- Could coexist with a traditional fireplace or oven



FOCUS

- Environment
- Design

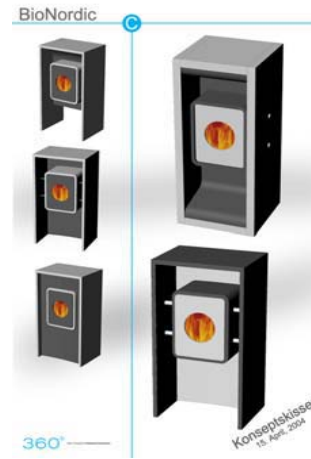


Design

Burning 1, 22.12.2003



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phase 1A - sketches



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phase 2A - Choices





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smart varme



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12



Environment

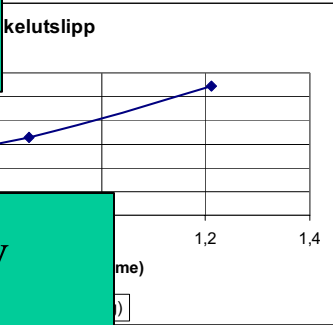
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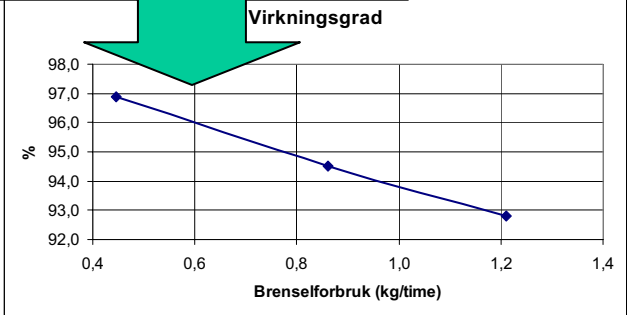
13

Results from tests at SINTEF / Bionordic – Jostedal 1 MAY 2005

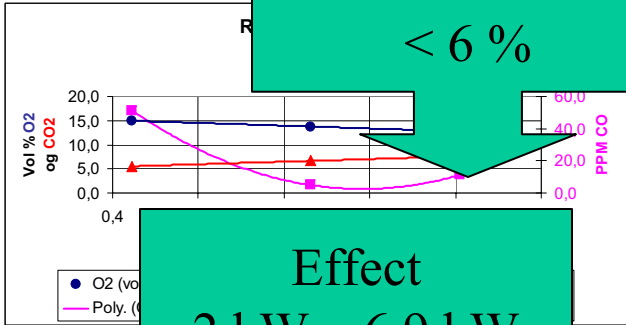
**Particle-outlet
< 0,5 g/kg**



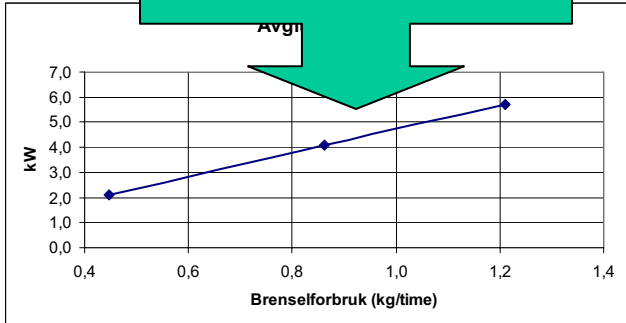
**Efficiency
> 96%**



**CO2 vol%
< 6 %**



**Effect
2 kW – 6.9 kW**



SINTEF Energy Research