

EFFECTIVENESS OF THERMAL ENERGY CONSUMPTION

Dr.sc.ing. Edmunds Visockis

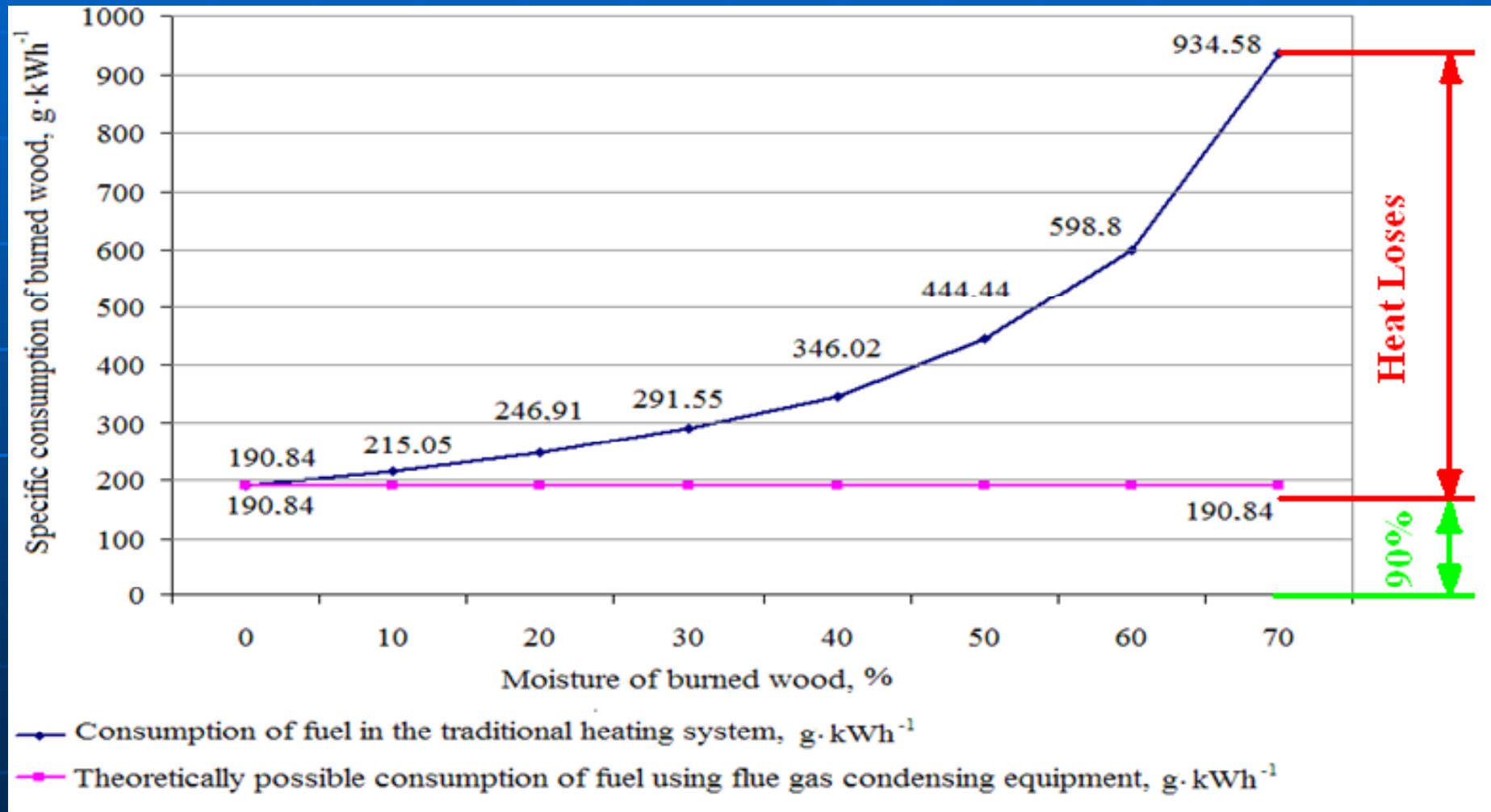
RU IF LIAPI 2010

PRESENT SITUATION



- *High bills and heat energy losses!*
- *Global climate changes!*

TRADITIONAL BIOMASS BOILER EFFECTIVITY



INNOVATIVE HYBRIDTECHNOLOGIES

- *Flue gas cooling by different equipment and heat pumps solutions will return lose heat energy*
- *Increase heating efficiency*
- *Considering the fast rise in prices of energo resources the low operation costs are the most important factor*

ADVANTAGES

- *High efficiency of fuel consumption independent on the amount of moisture in it.*
- *Using heated floors heat is used by 20% more efficiently.*
- *Comfortable, economic, ecologically favourable kind of heating.*

PEOPLES RECEIVE



- *Warm house*
- *Cheap heating*
- *Clear ambience*

INNOVATION

Underfloor heating system using flue gas

- *Maximally effectively used flue gas heat*
- *Simple, cheap, comfortable kind of heating*
- *4 more patents protect all main units of the system*

In combination with heat pump flue gas possible cooling till low temperature

- *Heating system total efficiency will be maximally high*
- *Low fuel consumption*
- *Clear and small amount of flue gas*

ECOLOGY

- *Application of flue gas condensation and heat pump equipment should be enlarged*
- *With cool flue gas flowing from the chimney instead of hot gas the ambient air, that working against the global heating*
- *Obtaining the maximally possible amount of heat from the fuel and saving (heat insulation) it the consumption of fuel decreases many times*

ECOLOGY

- *Growing trees and other biomass absorb the sun heat, carbonic acid and produce oxygen, evaporate water and cooling air to make climate control functions*
- *With biomass growth exceeding the consumption the Earth will be healed and the climate must be normalized (slow down wind)*
- *We must exchange or maintain to save world nature for future generations.*



Thank you for attention!

Certificate 09 PRAGUE

National ENERGY GLOBE Award

LATVIA

PROJECT

Underfloor heating systems using flue gas

APPLICANT

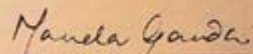
Latvian University of Agriculture

Energy Globe
The world award for sustainability



Martin Bursik

Czech Environment Minister



Maneka Gandhi

Chairwoman of the
International ENERGY GLOBE Jury



Wolfgang Neumann

President & Founder
ENERGY GLOBE

EU2009.CZ

Prague, 12 April 2009



25. May 2009

Re: **Energy Globe TV Gala/Prague**

Dear Mr. Visokis,

We would like to take this opportunity to thank you once again for participating at the Energy Globe TV Gala in Prague and again would like to extend our congratulations for your contributions for our planet!

The event was extremely successful, it will be broadcast worldwide to approximately 120 countries in the coming weeks and months.

Your attendance as national winner was an impressive signal how much is already done in the world to protect the environment and to strive for better living conditions of mankind.

We will again invite project executing organizations worldwide to take part in the Energy Globe in 2009 and would like to ask you for your support to spread news about the Energy Globe and to motivate project representatives – as you are – to participate in our competition.

Every implemented ecological solution – whether large or small – will help us overcome the energy and climate problems at issue.

Enclosed please find a DVD of the national awards' ceremony and the international tv gala in Prague.

We wish you all the best and much success for your future activities!

Yours sincerely,



ENERGY GLOBE

DVD / International Energy Globe TV Gala Prague
DVD/ National Energy Globe Awards' Ceremony Prague

www.energyglobe.info

ENERGY GLOBE
The world award for sustainability

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**ENERGY GLOBE
WORLD AWARD**

Praha - Veletržní palác

14. dubna 2009

**Srdečně Vás vítáme
Herzlich willkommen
Welcome**

LATVIA

Raimonds
VEJONIS

