

Biomass to Energy

REFERENCES

- NOTAR® v.3 : 2018 – Mont-Godinne
- NOTAR® v.2 : 2015 – Saint Gobain
- NOTAR® v.2 : 2009 – Tournai
- Test Gasifier Plant : 2010 – Louvain-la-Neuve

REFERENCES



Louvain-la-Neuve



Mont-Godinne



Tournai



Saint Gobain

REFERENCES



Project Key Data	
Location	Mont-Godinne Hospital, Belgium
Owner	Special Purpose Vehicule (MGGE)
Application	Combined Heat & Power (Jenbacher J320S) for hospital energy consumption
Capacity	750kW _e + 1200kW _{heat} + 400kW _{Cold}
Technology	NOTAR v.3
Feedstock	Natural and recycled woodchips
Commissioning	Q1-2018

Project Key Data	
Location	University Catholic of Louvain-La-Neuve (UCL), Institute of Mechanics, Materials and Civil Engineering, Belgium
Evaluation/R&D scope	<ul style="list-style-type: none"> Optimizing operational parameters to various types of woodchips and biomasses Industrial benchmark for commercial purposes
Capacity	150 kW _{th} syngas power LHV
Technology	NOTAR
Feedstock	Various
Commissioning	Start operation in 2010



Project Key Data	
Location	Champagne Area (France)
Owner	Glass bottles manufacturer
Application	Direct use of syngas for fossil fuel substitution in industrial process
Capacity	950 kW _{th} syngas power
Technology	NOTAR v.2
Feedstock	Woodchips from vineyards pruning branches and obsolete vine stocks
Commissioning	Q1-2015

Project Key Data	
Location	Tournai, Belgium
Owner	Tournai City
Application	Combined Heat & Power (MTU G12) for swimming-pool energy consumption
Capacity	260kW _e + 475kW _{heat}
Technology	NOTAR v.2
Feedstock	Natural woodchips
Commissioning	Q4-2009



BELGIUM – Louvain-la-Neuve

TGP (Test gasifier Pilot)- Laboratory tool - R&D Center

Project Key Data	
Location	University Catholic of Louvain-La-Neuve (UCL), Institute of Mechanics, Materials and Civil Engineering, Belgium
Evaluation/R&D scope	<ul style="list-style-type: none">Optimizing operational parameters to various types of woodchips and biomassesIndustrial benchmark for commercial purposes
Capacity	150 kW _{th} syngas power LHV
Technology	NOTAR
Feedstock	Various
Commissioning	Start operation in 2010



Optimising parameters

On site analysis

Several feedstocks

BELGIUM -Mont-Godinne

First Belgian Hospital with Trigeneration renewable energy

Project Key Data	
Location	Mont-Godinne Hospital, Belgium
Owner	Special Purpose Vehicule (MGGE)
Application	Combined Heat & Power (Jenbacher J320S) for hospital energy consumption
Capacity	$750\text{kW}_e + 1200\text{kW}_{\text{heat}} + 400\text{kW}_{\text{Cold}}$
Technology	NOTAR v.3
Feedstock	Natural and recycled woodchips
Commissioning	Q1-2018



BELGIUM -Tournai

Swimming-pool heated by wood energy

Project Key Data	
Location	Tournai, Belgium
Owner	Tournai City
Application	Combined Heat & Power (MTU G12) for swimming-pool energy consumption
Capacity	260kW _e + 475kW _{heat}
Technology	NOTAR v.2
Feedstock	Natural woodchips
Commissioning	Q4-2009



FRANCE- Glass bottle plant

Industrial kiln using renewable wood syngas

Project Key Data	
Location	Saint Gobain - Champagne Area (France)
Owner	Glass bottles manufacturer
Application	Direct use of syngas for fossil fuel substitution in industrial process
Capacity	950 kW _{th} syngas power
Technology	NOTAR v.2
Feedstock	Woodchips from vineyards pruning branches and obsolete vine stocks
Commissioning	Q1-2015



REFERENCES



xW – Tournai

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xW - Mont-Godinne

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TGP - LLN

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xW – Office

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Transfert time

Tournai to Mont-Godinne : 1h15
Mont-Godinne to Brussels Airport: 1h05
xW Office to Tournai : 1h15
xW Office to Mont-Godinne : 0h45
xW Office to Brussels Airport : 0h20



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