







# **Biomass to Energy**

Transform local biomass into renewable energy with the **NOTAR®** technology



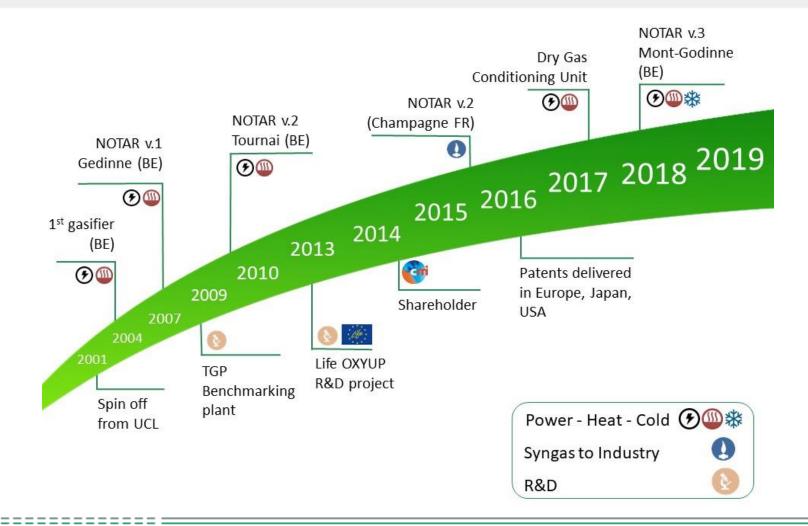






NOTAR:
Biomass to Energy

## **NOTAR®** story

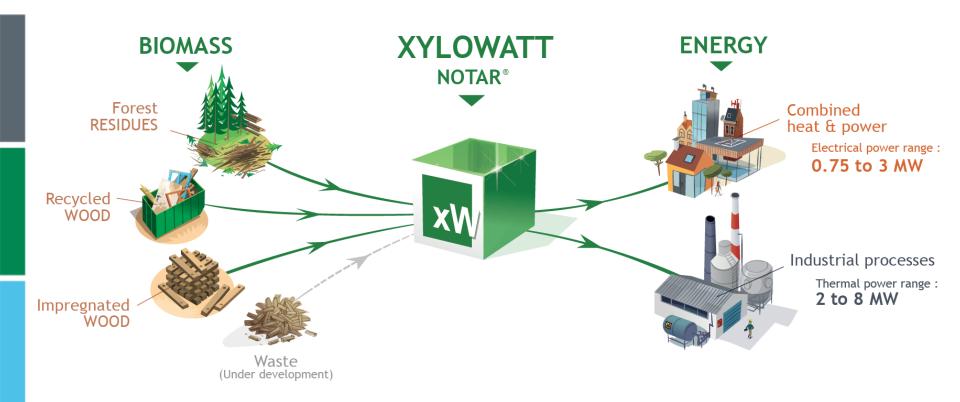


## Ecosystem

#### Our Industrial partner:

- Engineering
- **EPC**



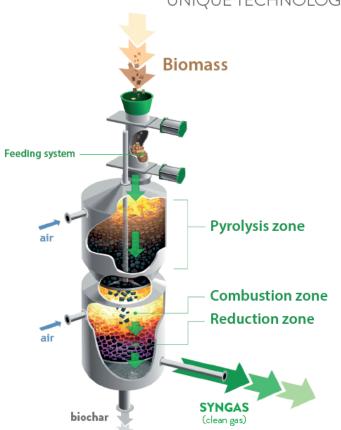


## NOTAR® Technology





UNIQUE TECHNOLOGY FOR CLEAN GAS PRODUCTION



#### A MULTI-STAGE DOWNDRAFT GASIFIER

#### **ADVANTAGES** -



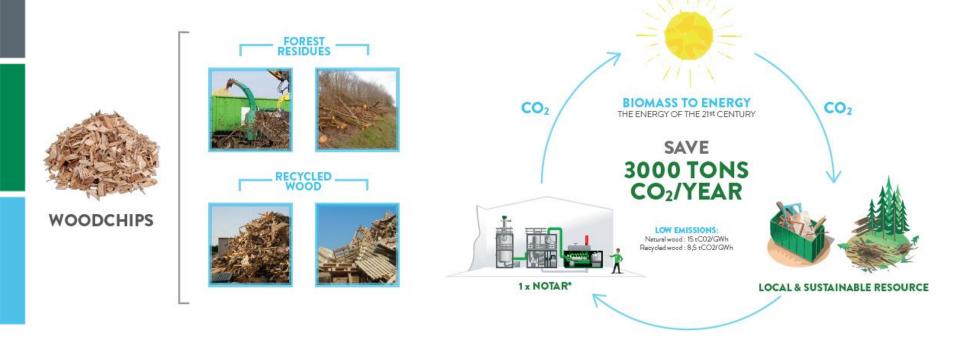




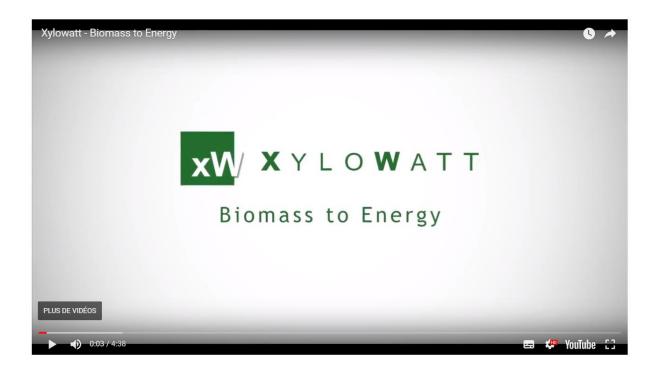


# XYLOWATT CO<sub>2</sub> emissions

#### SAVE 3000 TONS CO<sub>2</sub>/YEAR WITH LOCAL & RENEWABLE BIOMASS

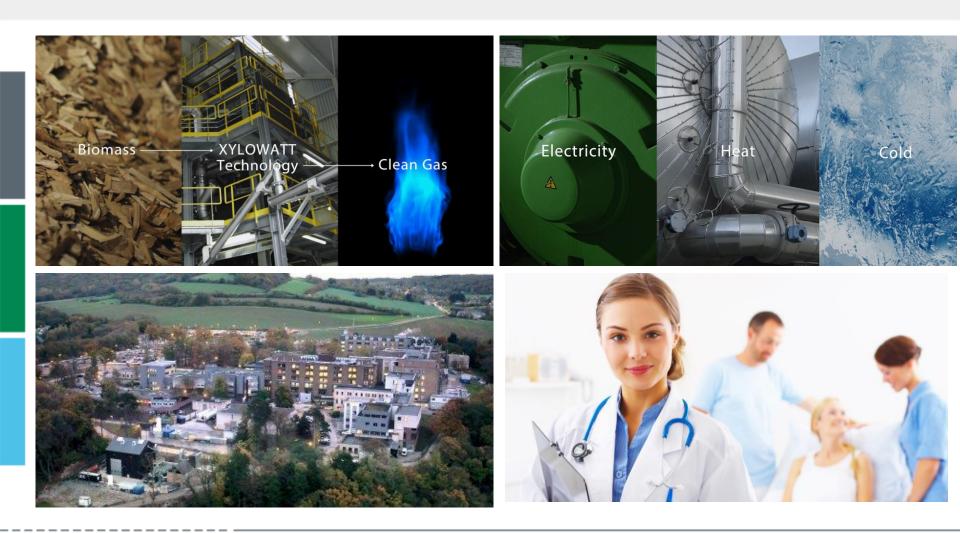


### XYLOWATT Film



https://www.youtube.com/watch?v=o-eCcHuArbg

## Mont-Godinne Renewable energy trigeneration

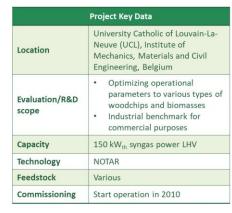


### REFERENCES





	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 <sub>e</sub> + 1200kW <sub>heat</sub> + 400kW <sub>Cold</sub>
Technology	NOTAR v.3
Feedstock	Natural and recycled woodchips
Commissioning	Q1-2018







	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 <sub>th</sub> 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 <sub>e</sub> + 475kW <sub>heat</sub>
Technology	NOTAR v.2
Feedstock	Natural woodchips
Commissioning	Q4-2009







## Competitive advantages





- with standard readily available woodchips G50/G30 (Natural & Recycled wood)
- using 30% less biomass than incineration technology (steam cycle)







✓ Clean syngas proved





✓ Trigeneration : electricity - heat - cold



✓ Zero waste plant



✓ Circular and Renewable 24/7 energy production