COMPTER

Biomass Boiler Solutions & Service provider
Biomass Canada Cluster/AgroBioHeat Joint Virtual Webinar
Wednesday, 5th May 2021
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COMPTE.R Biomass Boilers:
Success stories and lessons learned from the use of woody and non-woody biomass for heat production in Europe and Canada.

Agenda:
- Presentation of COMPTE.R
- Boiler range
- Examples of fuels used in our systems to produce energy
- Non-woody biomass solutions and references in the World
- References in Canada
- Conclusion
COMPTE.R - KEY DATA

1887 Creation of the Group - 130 years of expertise

380 Collaborators around the world

5 Production sites

8 Business development subsidiaries and sales offices worldwide

1st French, Belarusian, Poland, Canadian manufacturer

35% Export sales

Biomass boilers
150 kW to 12 MW

OUR COMPANY
COMPTE.R REFERENCES

3000 installations throughout the world by COMPTE.R Group

Canada
Guadeloupe
Martinique
Chile
England
Scotland
Portugal
Spain
Italy
France
Reunion
Ghana
Ivory Coast
Cameroon
Gabon
Congo
Romania
Poland
Ukraine
Belarus
Lithuania
Russia
COMPTE.R - TYPES OF CLIENTS

Public sector

- District heating
- Educational institutions
- Sports complex
- Hospitals, retirement homes

Industrial & commercial sectors

- Wood industries: Sawmills, joineries, carpentries, ...
- Agri-food industries using their own fuels: cocoa beans, corn cobs, grape marc, sugar cane bagasse, ...
- Energy-intensive industries aiming to reduce their environmental impact and green their energy sources

OUR CLIENTS
YOUR CHALLENGES & GOALS

- Disposal
- Waste
- By-products
- Costs
- Sustainability
- Guidelines
- CO₂
- Emissions
- Cost
- Reduction
- Ecological
- Footprint
- Circular
- Economy
COMPTE.R OFFERS EQUIPMENT AND SERVICES

Boiler
hot water, steam, overheated water

Smoke treatment

Feeding

Transfer

Multiple biomass fuels

Ashes & soot

Project development and expertise

Design & manufacture

COMPT’Acte Services

Assembly & commissioning

Permanent research of efficiency for respect of the ELV

Storage

Extraction

OUR EXPERTISE
COMPTE.R - BOILER RANGE
HOT WATER BOILERS SOLUTIONS

PELLETECH

Power
150 – 500 kW

Fuel
Pellets, Chipped Wood, Waste/by-products from the Wood Industries

GRANULECO

Power
500 – 1500 kW

Fuel
Pellets, Chipped Wood, Waste from the Wood Industries

COMPACT LN – Low NOx

Power
500 – 10,000 kW

Fuel
Pellets, Chipped Wood, Agro Fuels
STEAM BOILERS & HGG SOLUTIONS

STEAM

Power
1,700 – 8,000 kW
3t/h to 12t/h

Fuel
Chipped Wood, Production Waste from the Wood Industries, Agro Fuels

SUPERHEATED WATER

Power
1,700 – 8,000 kW

Fuel
Chipped Wood, Production Waste from the Wood Industries, Agro Fuels

HOT GAS GENERATORS

Power
4,500 – 17,000 kW

Fuel
Chipped Wood, Production Waste from the Wood Industries, Agro Fuels
COMPTE.R - EXAMPLE OF FUELS
FUELS – BIOMASS – WOODY

- Wood chips
- Pellets
- Wood industry by-products
- Sawmill barks
- Waste wood, shredded pallets
- Urban pruning, woodland plots, etc

EXAMPLE OF FUELS
FUELS – BIOMASS – NON-WOODY

- VINE BRANCH, GRAPE POMACE
- STRAW
- FLAX SHIVES
- CORN COBS
- CEREAL DUST
- MISCANTHUS

EXAMPLE OF FUELS
SOME COMPUTER REFERENCES OF NON-WOODY BIOMASS USED FOR ENERGY PRODUCTION
NON-WOODY BIOMASS USED FOR ENERGY PRODUCTION

DISTILLERY DOUENCE France – 6 MW 10 t/h

DISTILLERY GOYARD France – 7,5 MW 10 t/h

DISTILLERY LA VAROISE France – 7 MW 10 t/h

VINE BRANCHES, GRAPE POMACE
NON-WOODY BIOMASS USED FOR ENERGY PRODUCTION

TROYES France – 4,5 + 3,5 MW

CHAVANNES France – 3 MW

POITIERS France – 4,5 MW

STRAW
NON-WOODY BIOMASS USED FOR ENERGY PRODUCTION

LIMAGRAIN France – 3 MW 3,5 t/h
REMINGTON SEEDS Romania – 8 MW
RAZES France – 8 MW
NON-WOODY BIOMASS USED FOR ENERGY PRODUCTION

SINIAT France – 3 MW 4.6 t/h

WORMHOUT France – 700 kW

SOUFFLET France & Ukraine – 6 MW

FLAX SHIVES, CEREAL DUST
NON-WOODY BIOMASS USE FOR ENERGY PRODUCTION

Rhum JM Martinique – 3 MW 4.2 t/h

Saco IVORY COST – 4.5 MW 7 t/h

Niche Cocoa GHANA – 3.5 MW 5 t/h

COCOA BEANS, SUGAR CANE BAGASSE
COMPTER REFERENCES IN CANADA
Location: Maria, Gaspesia, Quebec
Purpose: Heating, laundry & sterilization
Power: 3 MW @ 125 PSI Steam
Commissionned: Jan, 2013
Fuel type: Forestry wood chip
Location: Franklin, Quebec
Purpose: Steam heating process for apple sauce
Power: 4.5 MW @ 125 PSI Steam
Commissioned: Jan, 2017
Fuel type: Forestry wood chip and clean recycled wood
Location: St-Ludger-de-Milot, Quebec
Purpose: Wood dryer
Power: 7.5 MW @ 125 PSI Steam
Commissioned: May, 2017
Fuel type: Wood barks @ 50-65% RH
HOT WATER – SERRES LEFORT – 16MW

Location: Ste-Clothilde-de-Chateauguay, Quebec
Purpose: Greenhouse heating (8 ha) – 2x 8 MW
Commissioned: Nov, 2016
Fuel type: Forestry wood chip and clean recycled wood

REFERENCES IN CANADA
HOT WATER – SERRES SAGAMI/SAVOURA – 16MW

Location: Mirabel, Quebec
Purpose: Greenhouse heating, (6 ha), 2x 8 MW
Commissioned: Nov, 2018
Fuel type: Wood waste

REFERENCES IN CANADA
**HOT WATER – EXCEL SERRES – 2MW**

**Location:** Ste-Damase, Quebec  
**Purpose:** Greenhouse heating, (2 ha), 2x 1 MW  
**Commissioned:** (1x) Nov, 2013 & (1x) Nov, 2016  
**Fuel type:** Forestry wood chip and clean recycled wood
Location: Thetford Mines, Quebec
Purpose: Superheated water for maple syrup process and building heating – 1 MW
Commissioned: Feb, 2019
Fuel type: Wood pellets
THANK YOU

Conclusion & Questions

- Technological challenges and solutions
- CO₂ Emission reduction
- Sustainability Guidelines
- Use of waste and by-products
- Ecological Footprint
- Circular Economy
- Cost Reduction

Use of waste and by-products

CO₂ Emission reduction

Sustainability Guidelines

Circular Economy

Cost Reduction