

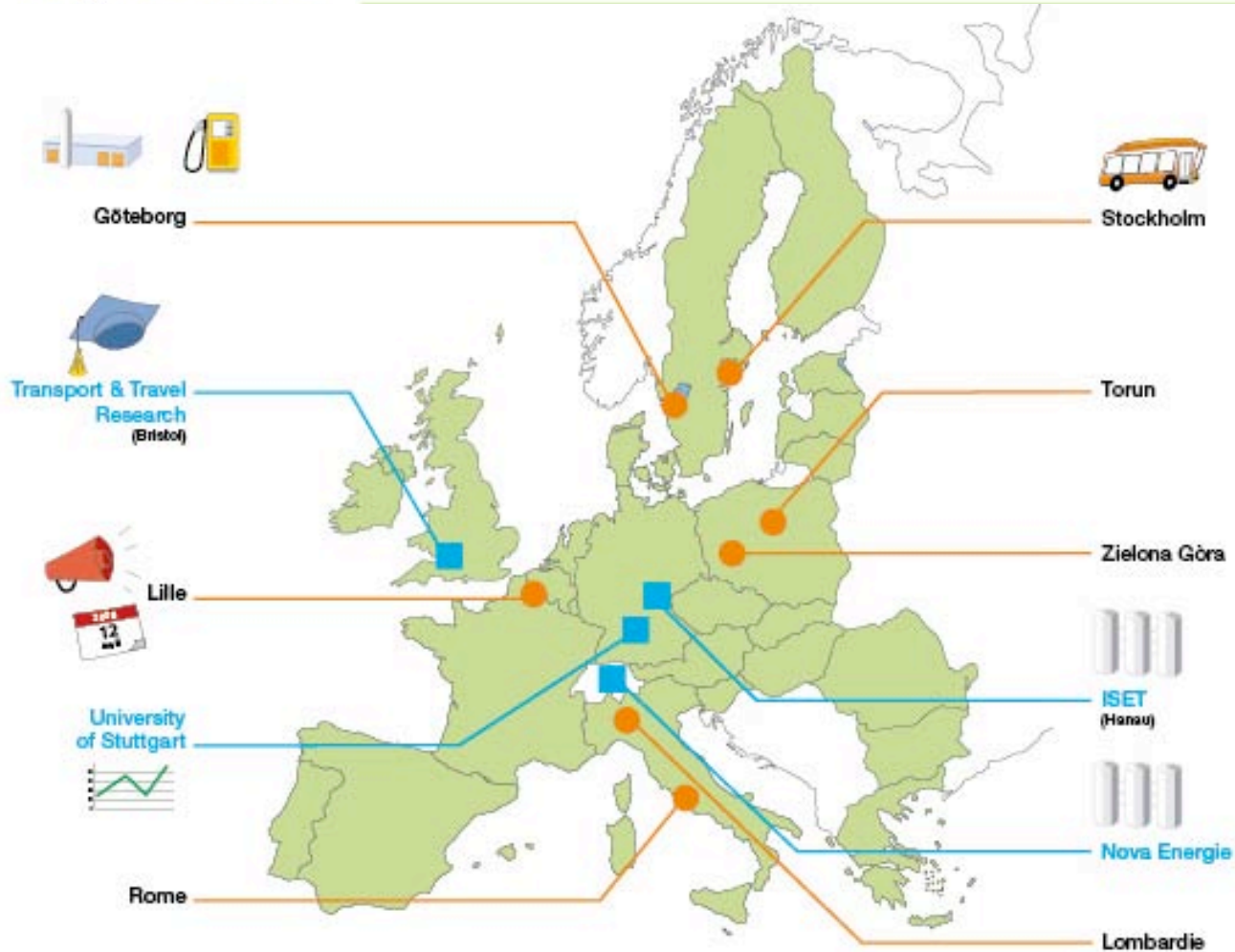












*biogasmax*  
A D R I V I N G F O R C E

European Conference on Biomethane Fuel - Göteborg

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-  Demonstration and research partners
-  Horizontal partners
-  WP1: project management
-  WP2: biogas production
-  WP3: upgrading
-  WP4: distribution
-  WP5: use in vehicles
-  WP6: evaluation
-  WP7: transferability studies
-  WP8: communication and dissemination



# Lille site



- Organic Recovery Centre (ORC)

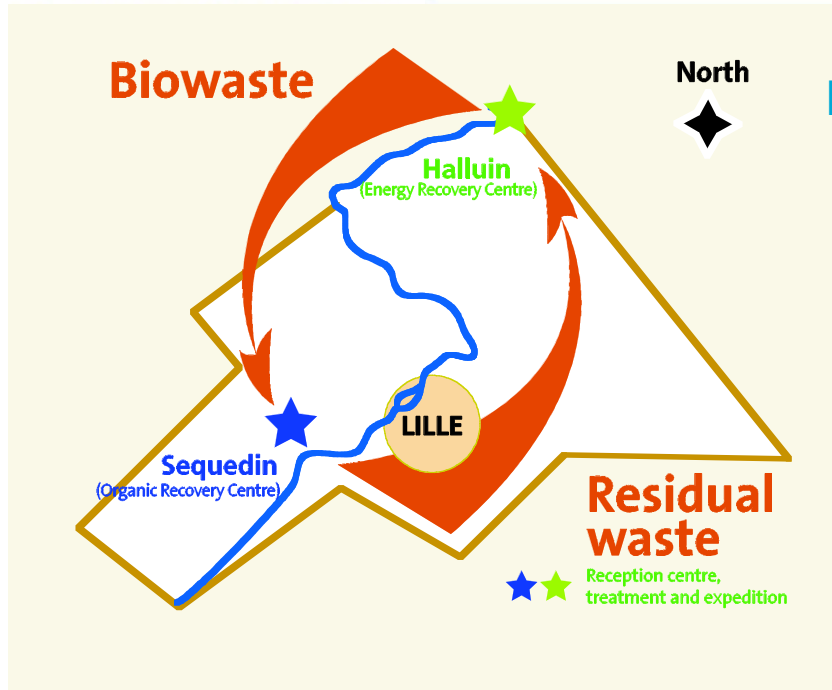


- Waste Water Treatment Plant (Marquette)

**Gildas LE SAUX**

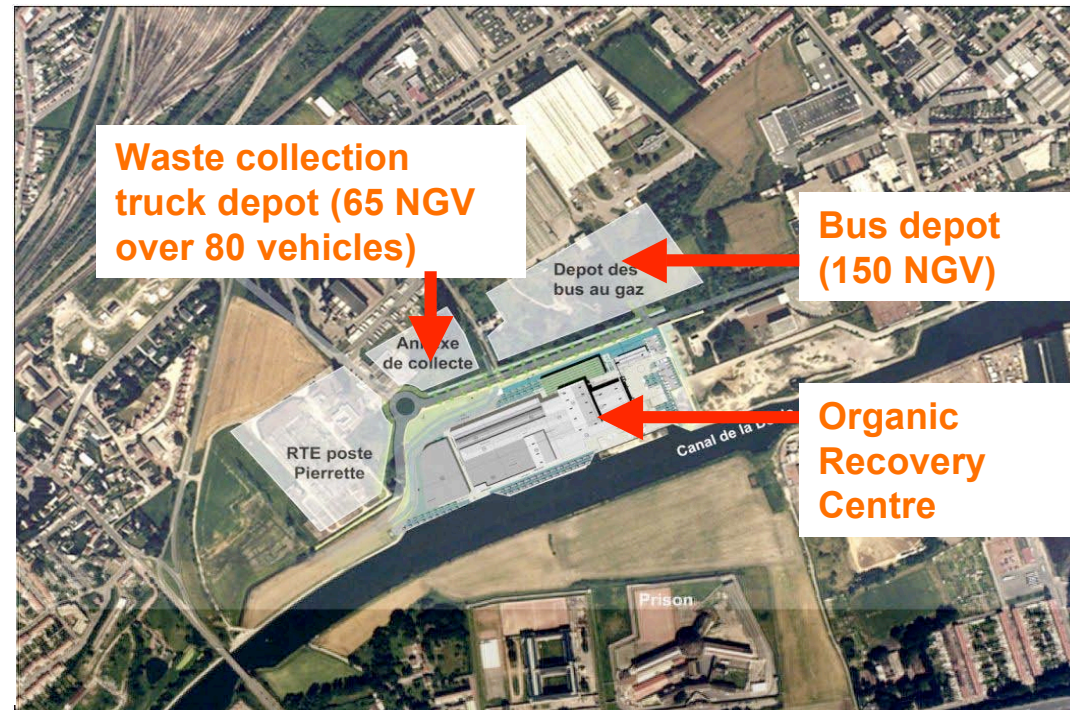
Biogasmax project manager - Urban Waste Division

Lille Metropolitan Area (*Lille Métropole Communauté Urbaine*)



- Flows of household wastes are managed on the metropolitan level

- Organic Recovery Centre : production site is close to the consumption sites



■ Capacity : 100,000 tonnes/year

- organic fraction of the household waste from door-stop collection and open municipal markets \_\_\_\_\_ 36 000 - 62 000 t/year
- garden waste collected in recycling centres \_\_\_\_\_ 40 000 - 56 000 t/year
- kitchen wastes from institutional catering \_\_\_\_\_ 3 000 - 6 300 t/year



■ Process and production

- Raw biogas contains 55 to 65% methane gas
- biogas production : 700 Nm<sup>3</sup>/h
- 1 200 Nm<sup>3</sup>/h cleaning towers (Flotech, water scrubbing technology)
- methane fuel production : 480 Nm<sup>3</sup>/h of 97% pure methane
- biomethane : 4 millions Nm<sup>3</sup>/a



# ORC - Storage-distribution facilities and end-uses

**Upgraded biogas storage**

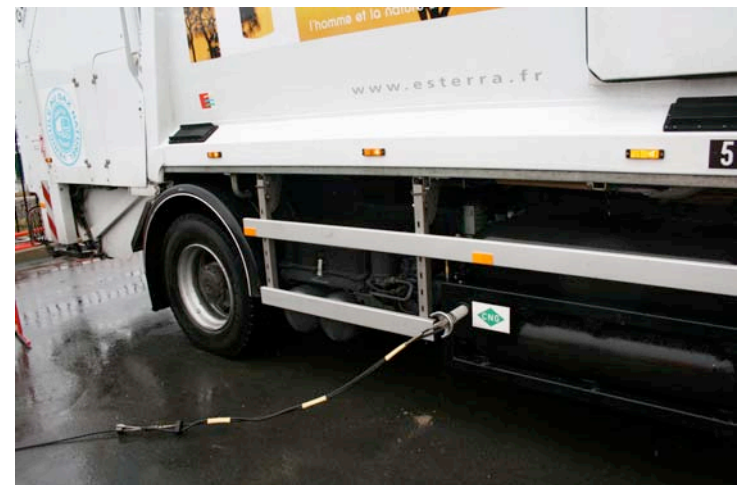


**Grid injection facility**



**Bus filling station (mix  
natural gas/biomethane)**

**Trucks refuelled with pure  
biomethane**



## ■ Production from sewage sludge:

- 0,28 million Nm<sup>3</sup> of upgraded biogas per year (10 buses)
- movable upgrading plant
- refuelling station on Marquette site
- project: bottle racks for refuelling in other LMCU vehicles depots (swap body systems)

– Testing phase start : September 09

