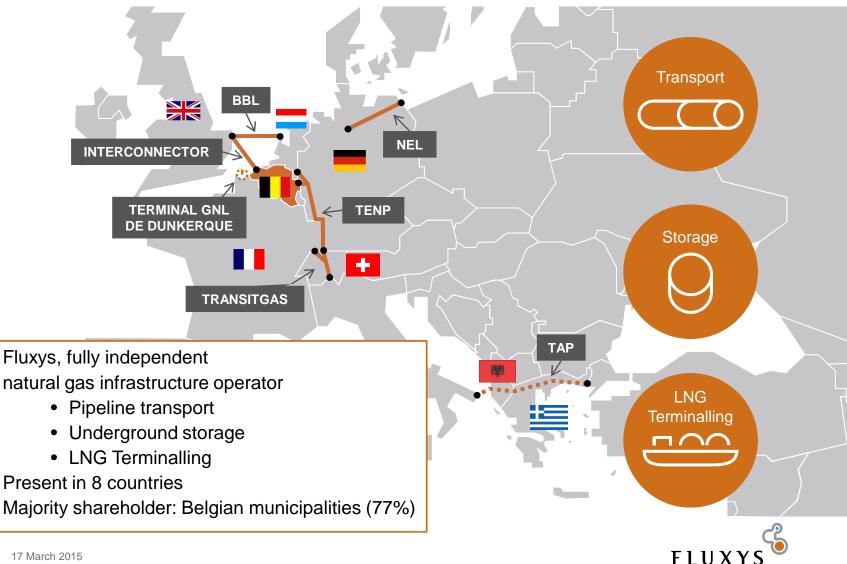
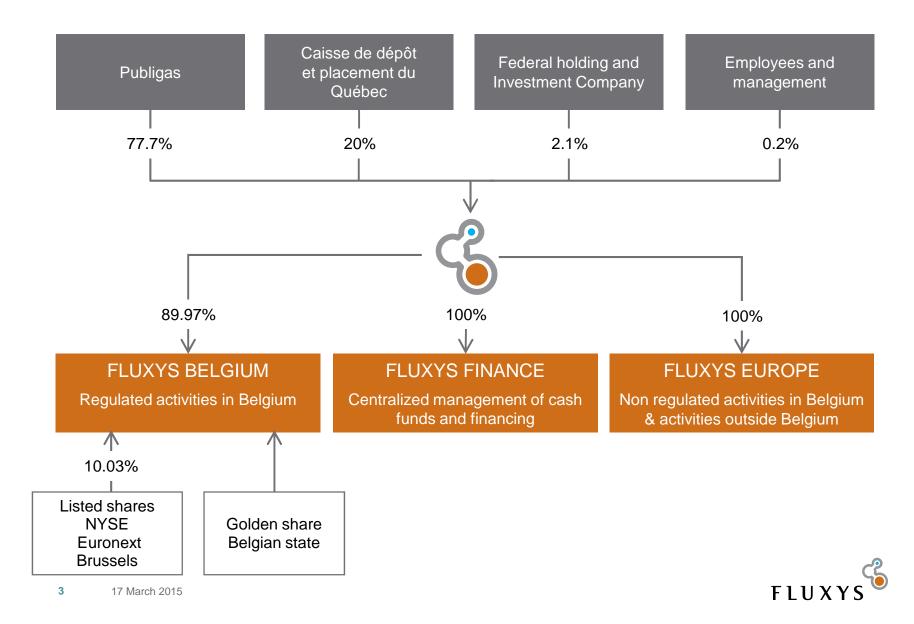




### FLUXYS: GAS INFRASTRUCTURE COMPANY FOR EUROPE



### SHAREHOLDING & GROUP STRUCTURE



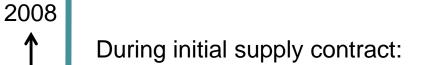
# 1978 : CONSTRUCTION of PENINSULA for the LNG terminal



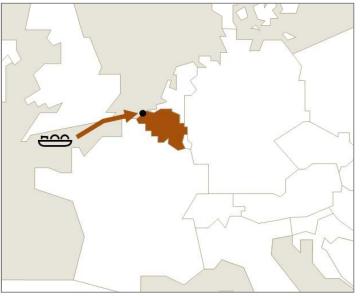




### AT FIRST: REGAS TERMINAL FOR THE BELGIAN MARKET ...



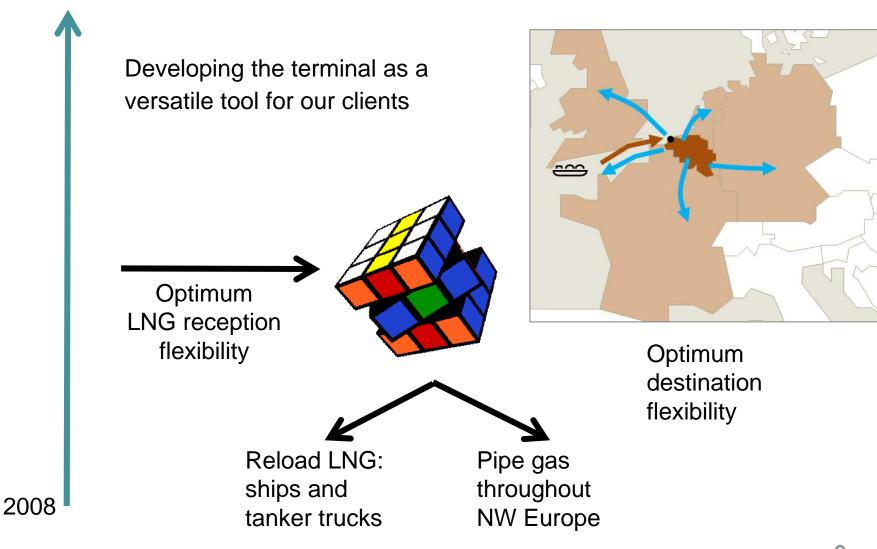
- Regas terminal as security of supply instrument for Belgian market
- 1 terminal user
- Throughput capacity: 3.4 mt/y
- Facility acts as attractor for new gas infrastructure investments





1987

### SINCE 2008: AN LNG HUB FOR NW EUROPE

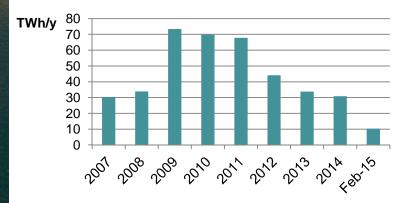


FLUXYS

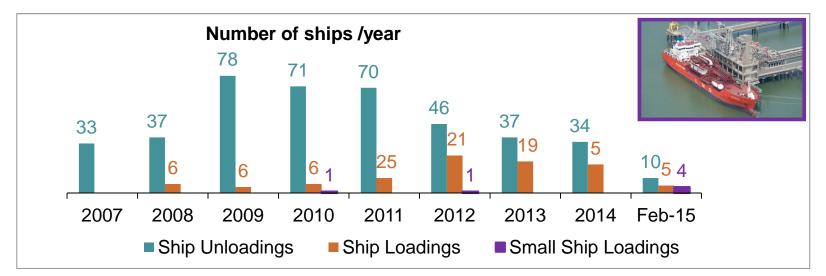
### Zeebrugge LNG terminal – unloading LNG

- 28 years in operation
- LNG carriers up to 1.8 TWh of LNG
- 2.5 TWh LNG storage capacity
- 0.5 TWh/day regasification capacity
- ~100 TWh/y capacity: able to supply
  +50% of the Belgian natural gas demand

TWh of LNG unloaded in Zeebrugge

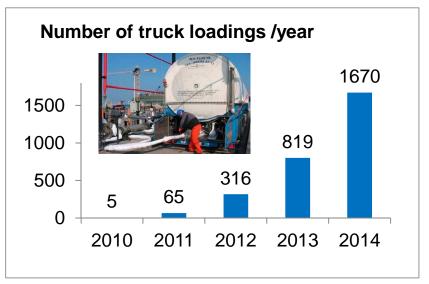


### UNLOADING AND LOADING LNG IN ZEEBRUGGE



2015 outlook:

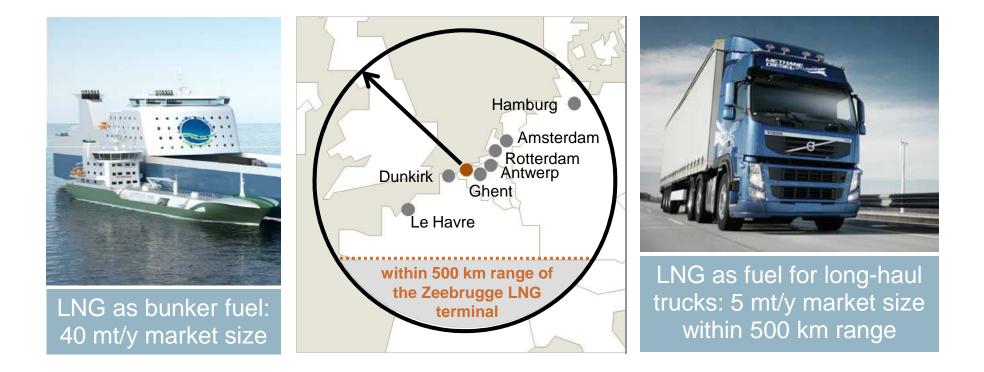
- Increase of ship unloadings
- Less large ship reloadings
- 20 small ship reloadings
- Growing number of LNG truck loadings in NW-Europe





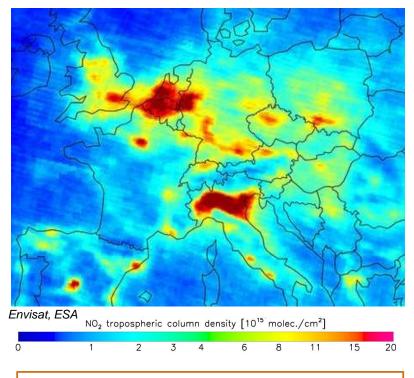
9 17 March 2015

### ZEEBRUGGE IS PERFECTLY LOCATED TO DELIVER LNG AS A FUEL FOR SHIPPING AND LONG-HAULAGE TRUCKS

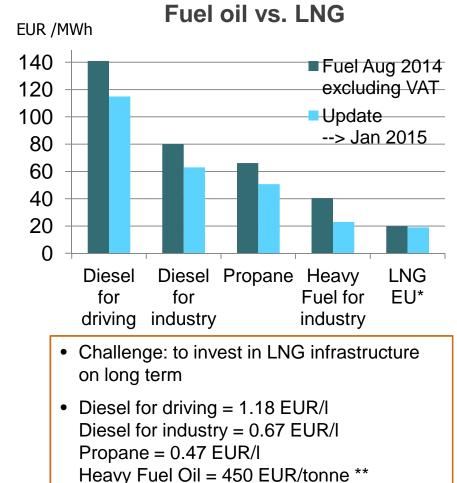




### LNG, LESS EXPENSIVE AND BETTER FOR THE ENVIRONMENT



- 0 emissions of SO2 and fine particules
  → negligable
- 50 to 60% less Nox
- Up to 25% less CO2



\* Natural gas price at the Zeebrugge trading HUB



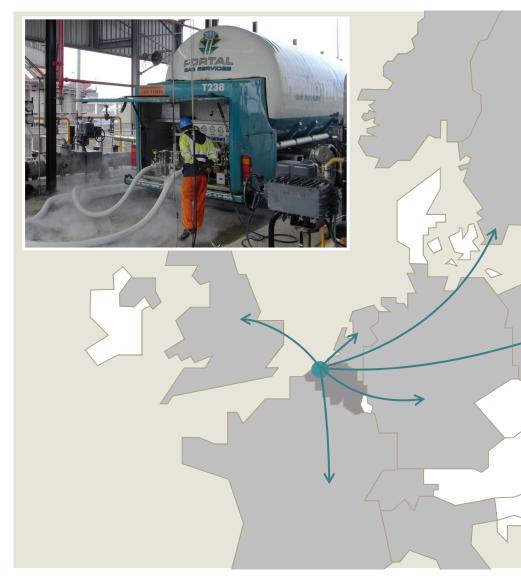
\*\* Prices published by the Belgian Petroleum Federation (BPF) 29/8/2014

### LNG TRUCK LOADING

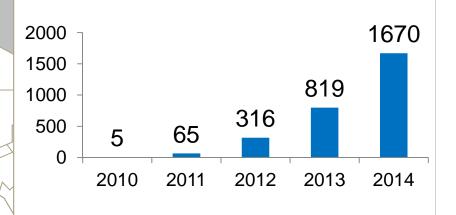




## LNG TRUCK LOADING 2010 2011 2012 2013 2014 ...

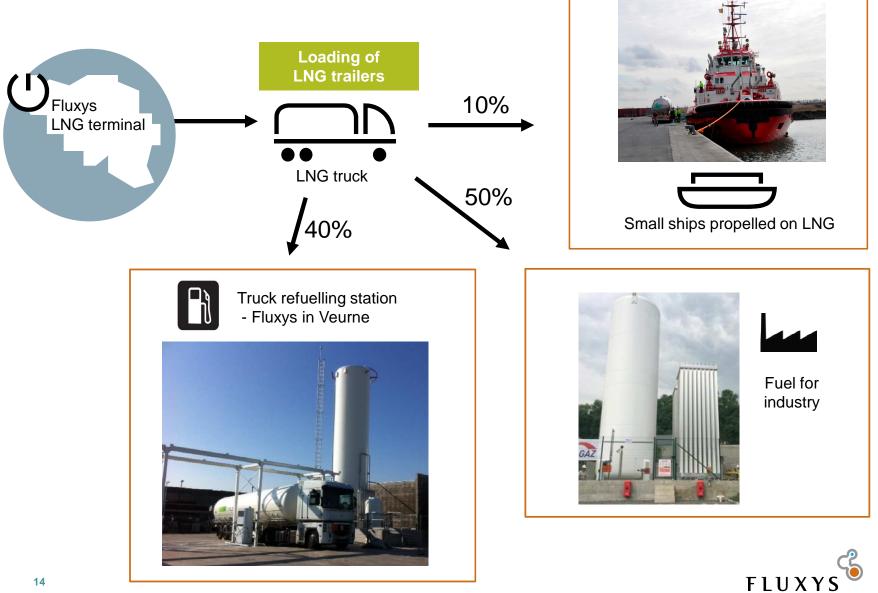


- 18 active truck loading companies
- Capacity of 4 000 loadings/year
- 24/7, online day-ahead scheduling
  - > Industrial sites without pipe gas >50%
  - > LNG refuelling stations <40%
  - > LNG as fuel for shipping <10%
- Destinations: Belgium, UK, France, Germany, the Netherlands, Poland, Switzerland, Sweden, Norway, Italy





### LNG AS A FUEL FOR INDUSTRY, SHIPS AND TRUCKS



### 2ND JETTY TO ACCOMMODATE MORE SHIP LOADINGS, SMALLER SHIPS AND TRANSSHIPMENT (H2 2015)





### LNG PROJECTS IN BELGIUM



 $\checkmark$  2015 - 2016: Eni to supply small scale ship loadings for Skangass in Sweden = 4.6 TWh



✓ 2014: first Fluxys LNG
 refuelling station in Belgium

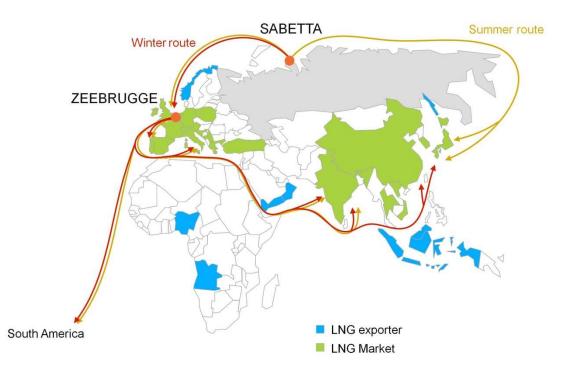




✓ 2016 : GDF Suez to load a 5 100 m<sup>3</sup> LNG bunker vessel to supply end user ships like UECC



### LNG TRANSSHIPMENT DEVELOPMENT AT ZEEBRUGGE



- Yamal to produce 16.5 mio tonnes of LNG/y. Three LNG production trains currently under construction.
- 05 March 2015, Fluxys LNG and Yamal signed 20y capacity agreement for LNG Transshipment services at LNG terminal in Zeebrugge.
- Arctic LNG carrier unloading → 180 000 m<sup>3</sup> LNG storage → LNG carrier loading

FIUXY

### CONCLUSIONS

Fluxys LNG terminal in Zeebrugge has been successfully transformed from a regas terminal for the Belgian market into a versatile tool for our clients

- Currently 3 long term capacity holders
- Optimum destination flexibility in terms of
  - » LNG regasification
  - » Loading large and small LNG ships
  - » Loading LNG trucks

LNG as a fuel for industry, ships and trucks

- A strong demand to reduce emissions as well as costs
- Challenge: developing downstream LNG infrastructure



# FLUXYS

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**19** 17 March 2015