

Secure Energy Supply with Combined Heat and Power Facilities



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Essent in brief

essent 



RWE

- § Essent is part of RWE
- § Essent is the RWE brand in the Netherlands and Belgium
- § RWE is one of Europe's top 5 power companies
- § RWE has 71,5 million customers
- § RWE's revenue (fiscal 2008): EUR 49 billion
- § RWE's head office is Essen, Germany
- § RWE has about 50 GW installed capacity
- § RWE has about 300TWh/yr gas sales



Essent in brief



Essent

- § The largest energy company in the Netherlands
- § 3 million households and corporate customers using its gas, electricity, heat and energy services
- § More than 90 years of experience in electricity production and supply
- § The largest producer of sustainable energy in the Netherlands
- § The Netherlands is the home market, with longstanding activities in Belgium

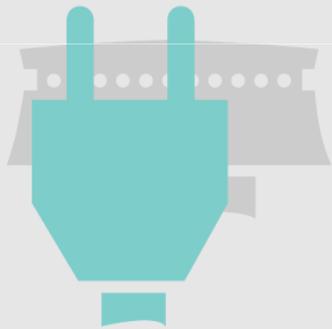


Essent in brief

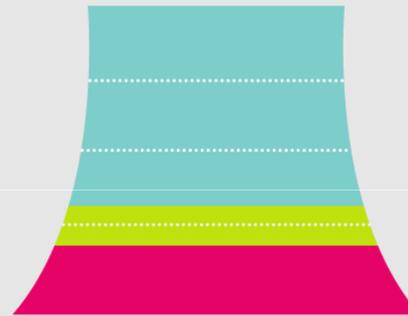


Key figures

3 million
customers



5.000
employees
(as of 1 October 2009)

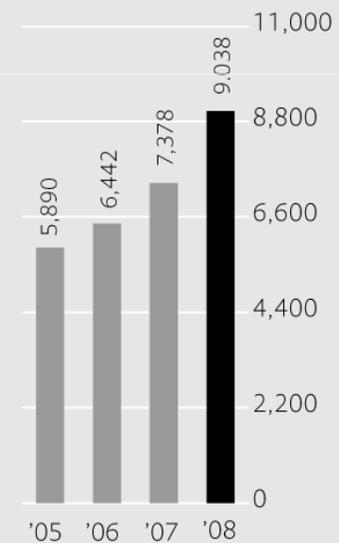


27% of total sustainable energy
production in the Netherlands

23% of total energy
production in the Netherlands

Sales

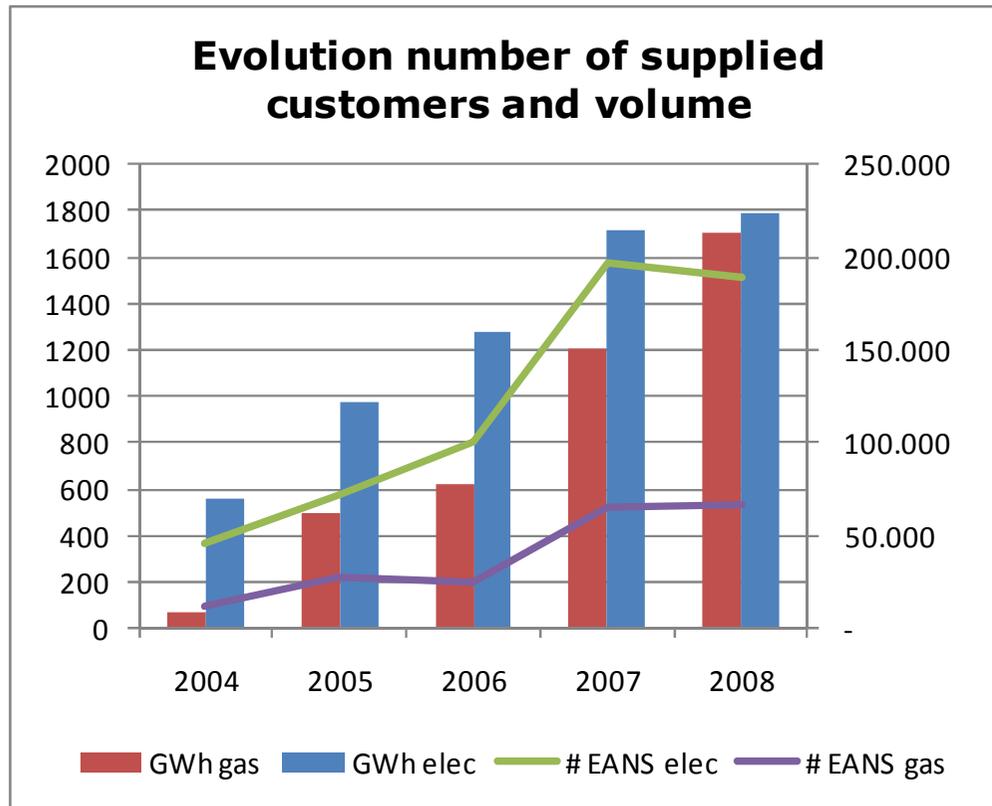
(in millions of euros)



Essent in brief



Essent in Belgium - General



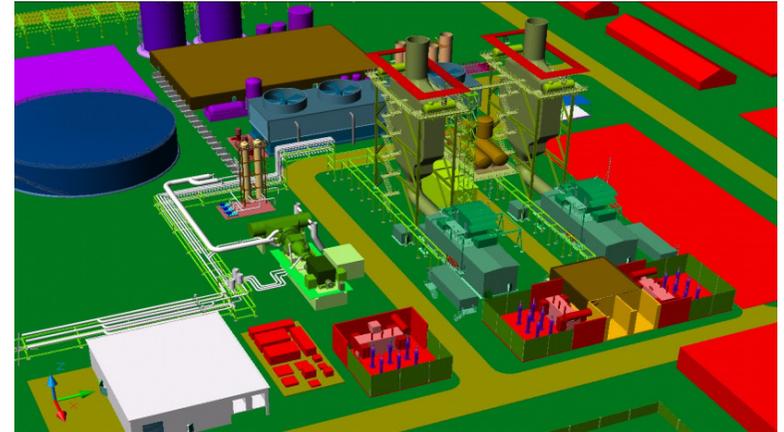
- 125 FTEs
- Supplier of E+G to B2B and B2C
- Over 200.000 clients choose Essent
- Largest challenger in Walloon Region
- Main office in Antwerp, subsidiary in Wavre (near Brussels)
- Increasing turnover: 315 € mln. (2008)
- Belgian stakeholder management and BD coordination for Essent group
- Towards 750 MW generation capacity in 2015

Essent in Belgium - Generation

- INESCO CHP 132 MW (INEOS site, Kallo)
- Zandvliet Power: 200 MW (JV with other party for a 400 MW CCGT @ BASF)
- T-Power: 420 MW off-take, long-term Power Purchase Agreement with T-Power (start-up 2012)
- 27% equity 300MW C-Power offshore windfarm, Thornton Bank

INESCO 132 CHP

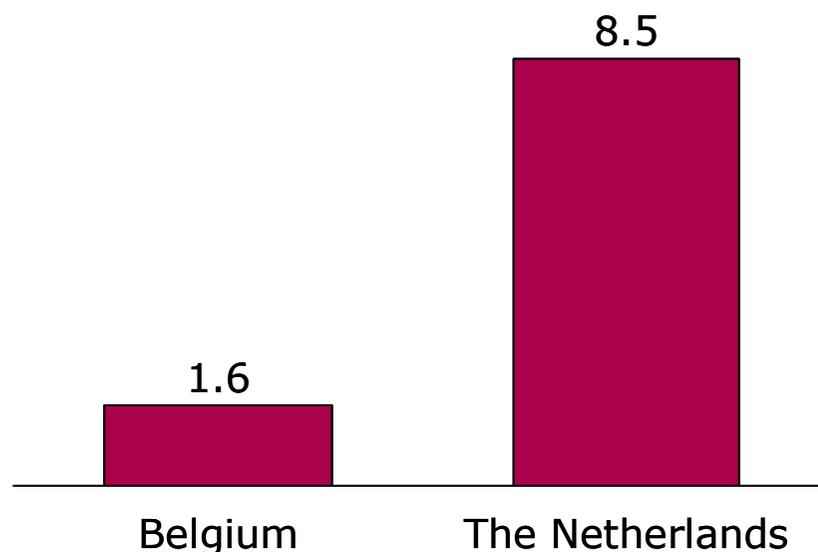
- INEOS Essent Cogeneration:
 - CHP - net power: 132 MW
 - On INEOS location
 - Clustering
 - Delivery of heat (steam) & electricity to INEOS
 - 100% owned by Essent (incl. existing steam infrastructure)
 - Operational management by INEOS staff
- Security of steam supply
 - Highly reliable design: N Peak, N-1 Guaranteed and N-2 Average quantities
 - Very fast response needed in event of trips at HHP steam level to ensure stable INEOS production



Belgian vs. Dutch CHP market

- The CHP volume in Belgium is smaller than in The Netherlands and most of the CHP's provide steam and heat to industrial clients

Current CHP installed capacity (GWe)

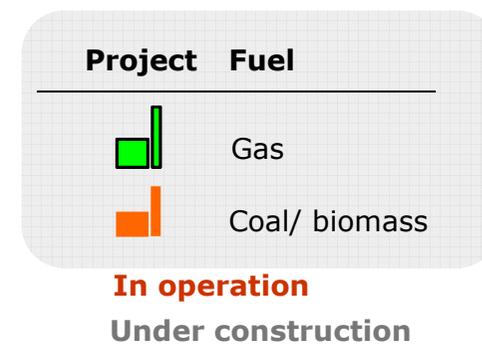
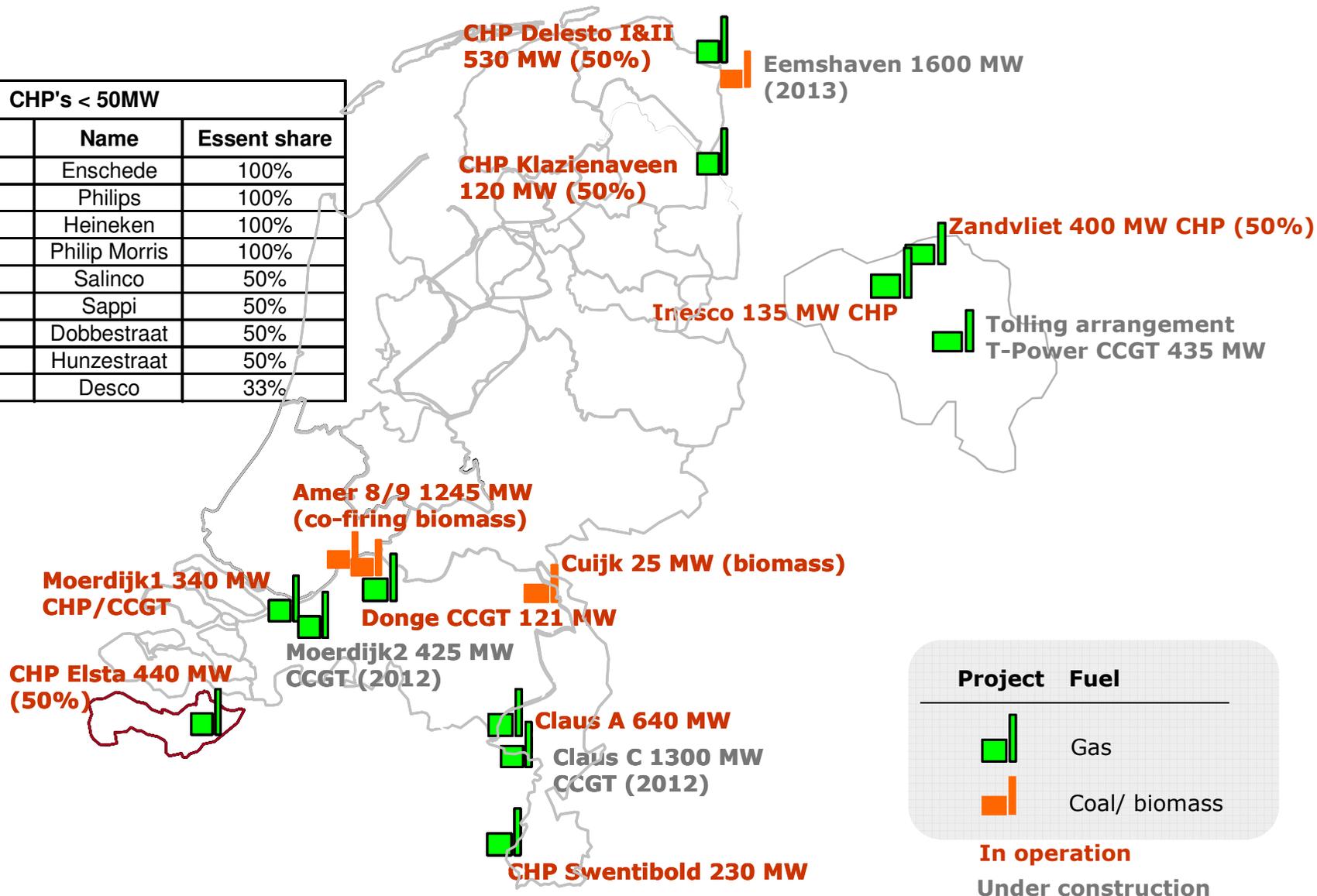


Opportunities & incentives:

- Joint Ventures to develop (bio-) CHP's with clients in steel, food and chemical industry
- Replacement of aging boilers and CHP's
- CHP-certificate system
- Increasingly stringent NO_x, SO_x and CO₂ emissions requirements
- The petrochemical industry needs to decrease feedstock SO₂ level

Experience of Essent - Assets

CHP's < 50MW		
Location	Name	Essent share
Enschede	Enschede	100%
Eindhoven	Philips	100%
Den Bosch	Heineken	100%
Bergen op Zoom	Philip Morris	100%
Hengelo	Salinco	50%
Maastricht	Sappi	50%
Ter Apelkanaal	Dobbestraat	50%
Gasselternijveen	Hunzestraat	50%
Dordrecht	Desco	33%



Excluding CHPs < 50 MW, wind, LNG and gas storage

Experience of Essent – CHP Development

- Different project sizes
- Various projects in development
- Design to fit needs
- Overall dispatch optimization
- Converting natural gas and locally produced fuel (site fuel gas)
- High fuel efficiency
- Low fuel costs and low specific CO₂-emissions
- Different business/JV models
- ...





Thank you for your attention

Jan Jaeken