

ENERGY FACTS & FIGURES

The energy sector in the Northern Netherlands is focusing on the transition to becoming a sustainable energy region. With international pipeline connections to places such as Berlin and St. Petersburg, the concentration of the gas industry and practical knowledge of renewable gas forms and applications, the Northern Netherlands is the region where knowledge about sustainable energy converges. The region is also rapidly expanding its electricity position, with large-scale power generation and international network connections.

Energizing Europe

The north of the Netherlands is a major European producer and distributor of natural gas and electricity. The available knowledge, facilities and companies are utilized to develop new, clean technologies in close interaction with each other to create a highly advanced energy system. The integrated development of the gas and power hub provide a crucial balancing function to enable a clean and reliable European energy future, and a competitive and innovative energy economy.

Energy Valley

The provinces of Drenthe, Fryslân, Groningen and Noord-Holland Noord form the Energy Valley region, with over 400 energy related companies and 25.000 employees. Through public-private collaboration the region has gained a key position in the national and European energy market with closely linked energy projects and a concentration of energy knowledge. This unique position is formalized by a Energy Agreement between the Energy Valley provinces and the national government that targets at 40 to 50 PJ of clean energy production and 4,5 Megatons of CO₂-reduction in 2011.

Examples of new developments

- CO₂ capture, -storage and reuse
- Large scale Green Gas production and injection
- Decentralization and Smart Grids in domestic areas
- Offshore wind energy parks
- Masters for the energy sector
- Combination of gas and power infrastructure

Cross cluster links

- Agribusiness: supply of bio energy and green gas
- Water Technology: supply of blue energy and green gas
- Sensor Technology: remote monitoring of energy

Recent start ups

Vertogas	Green gas certificate authority, Groningen
Noblesse Proteins BV	Poultry products processing company, Wijster
BioMCN	Bio methanol production company, Delfzijl
Energy Delta Institute	Energy Business School, Groningen
Qlyte	Thermo chemical conversion company, Delfzijl
Dutch Torrefaction Association	Interest group for torrefaction technology companies
Microgen	Stirling engine company, Groningen
APA BV	Solar panel producer, Leeuwarden
E.ON Waste to Power	Energy production company, Delfzijl
KEMA	Energy consultancy, Groningen

Partnerships include

Nederlandse Gasunie	Nederlandse Aardolie Maatschappij (NAM)
GasTerra	Groningen Seaports
University of Groningen	Ministry of Economic Affairs
Hanze University Groningen	Investment and Development Agency Northern Netherlands

Please turn this page over for a map that shows the network of business partners, start ups and knowledge partners of Energy Valley (arrows indicate areas, bullets indicate towns).

Future

An extensive and cohesive investment program of over €22 billion in security of supply, clean tech and R&D will be developed in the coming 5 years. This will provides approximately 38.500 man-years of work in the construction phase and 11.000 permanent jobs. Through close European collaboration and interaction a balancing function will be created between conventional and renewable energy to ensure a clean and reliable energy supply. This will be accompanied by additional investments in innovative solutions and knowledge to further strengthen the energy economy.



ENERGY CLUSTER

