

# Smart gas grids for a smart energy system

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UNECE Group of Experts on Gas  
Best practices guidance on the role of natural gas  
in increasing the uptake of renewable energy

Geneva – 21 January 2015

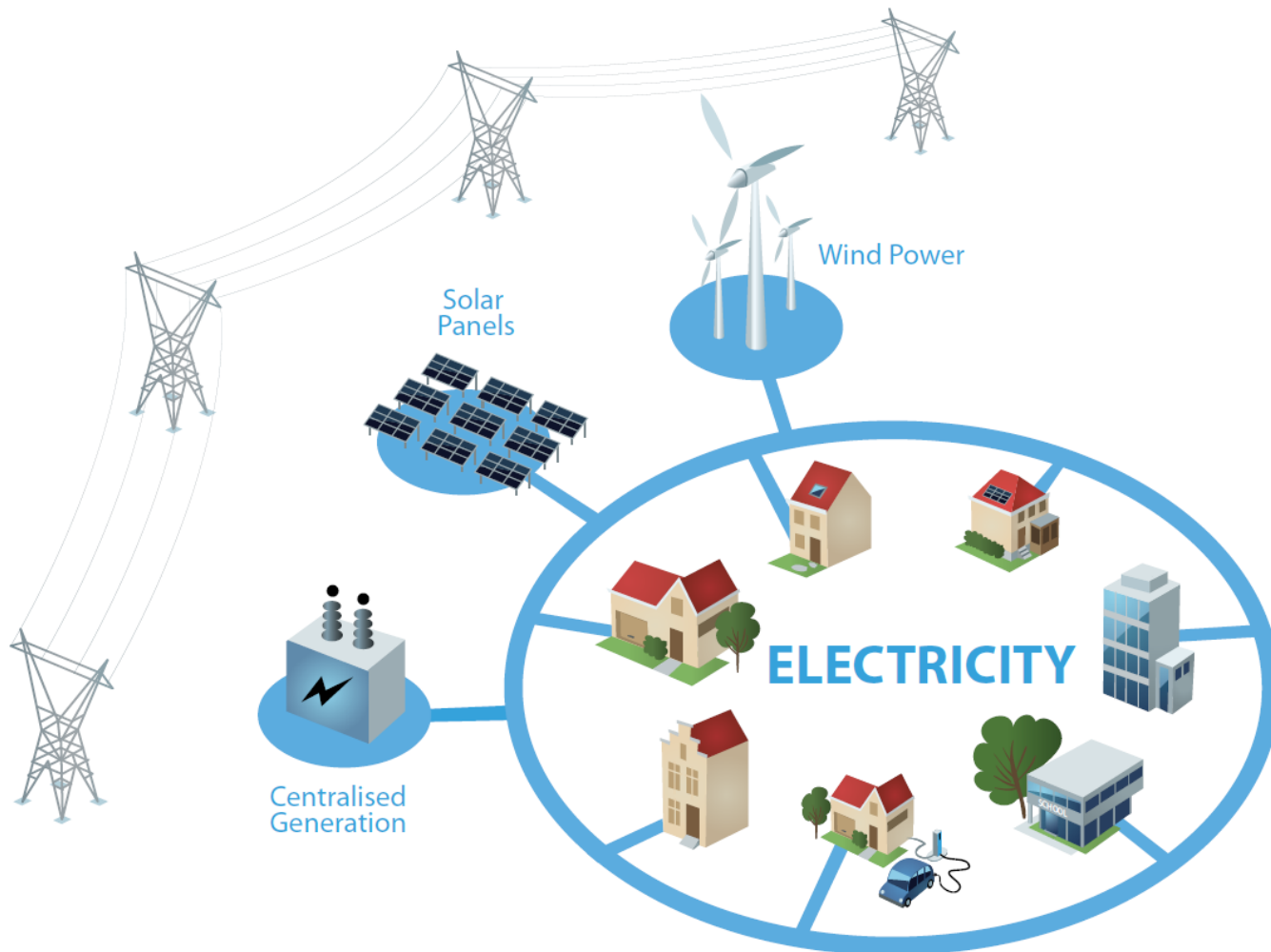
*Tim Cayford*  
*Policy Adviser*

# Our energy system begins with the consumer...

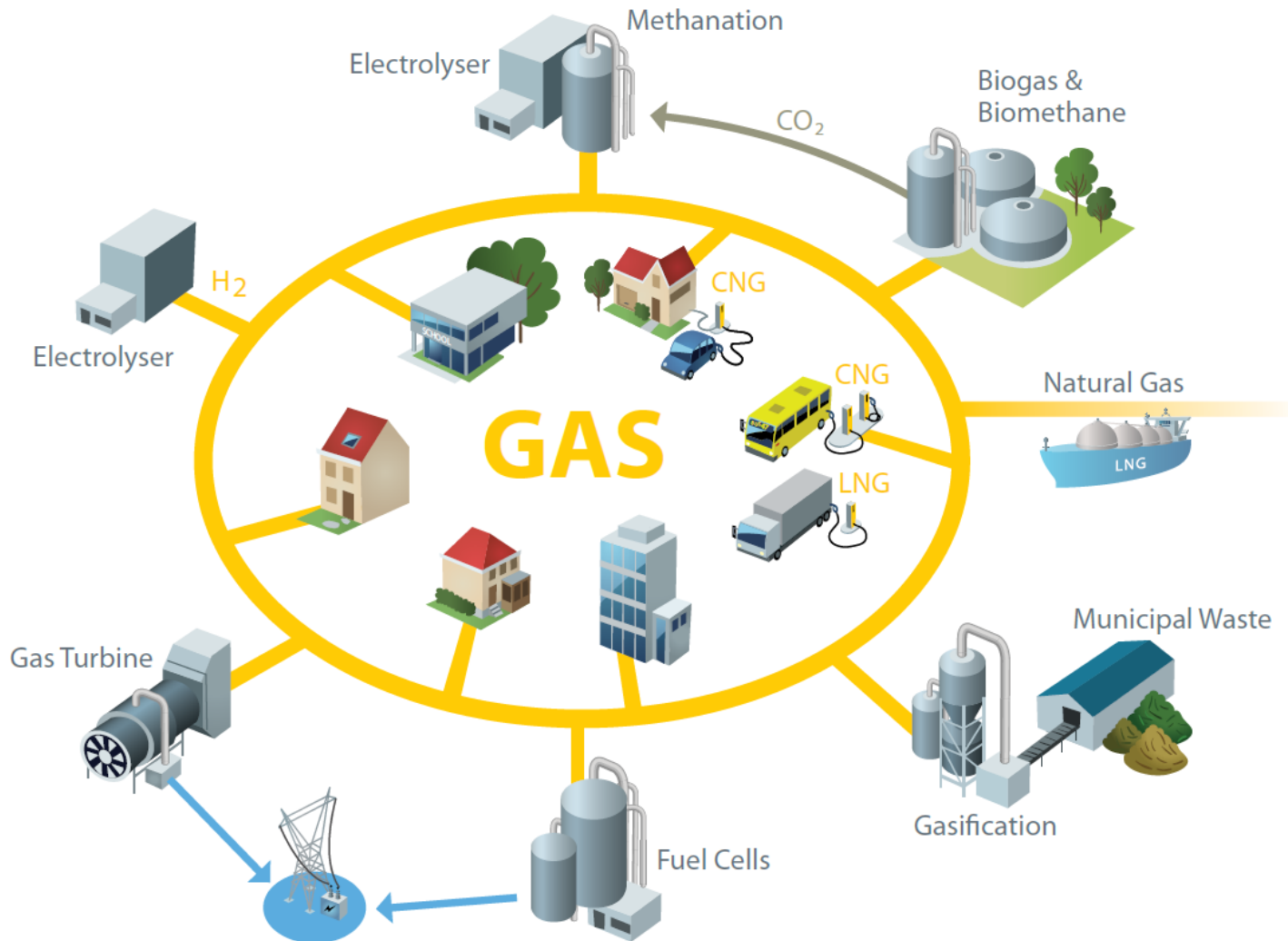
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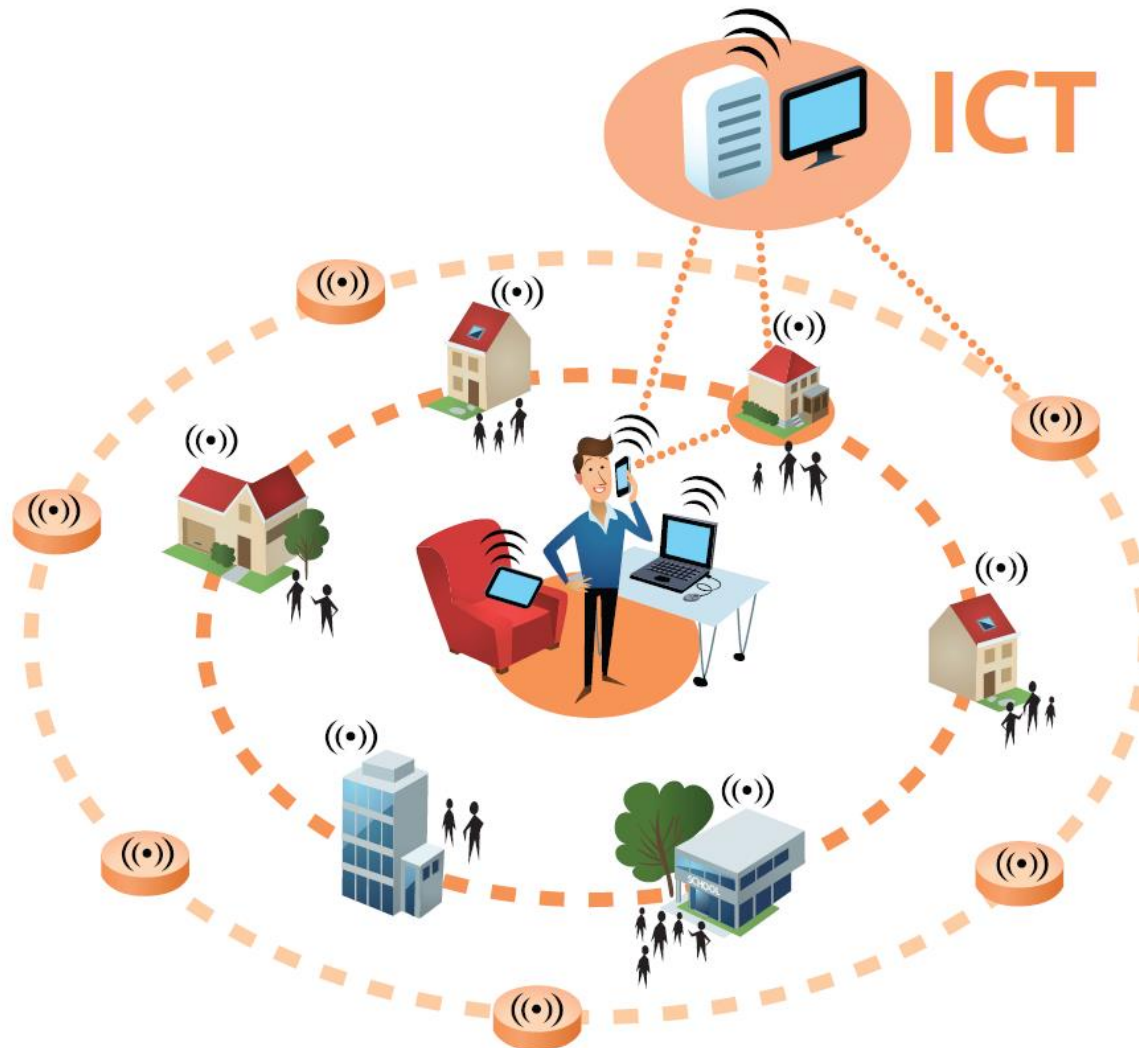
# Renewable electricity is critical...but incomplete...



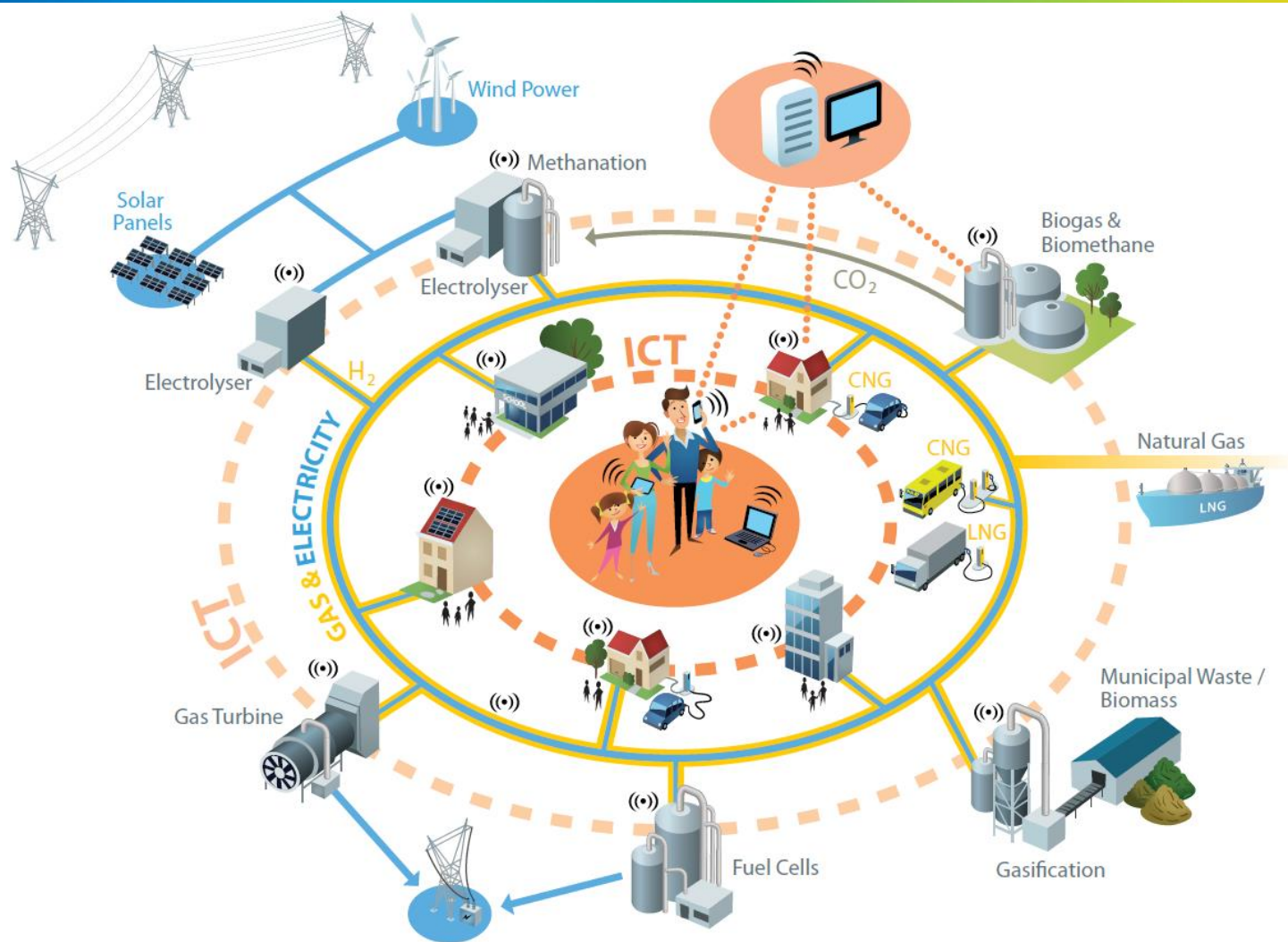
# Gas grids allow for more of this renewable energy...



# Information & Communications Technology enables interaction & integration...

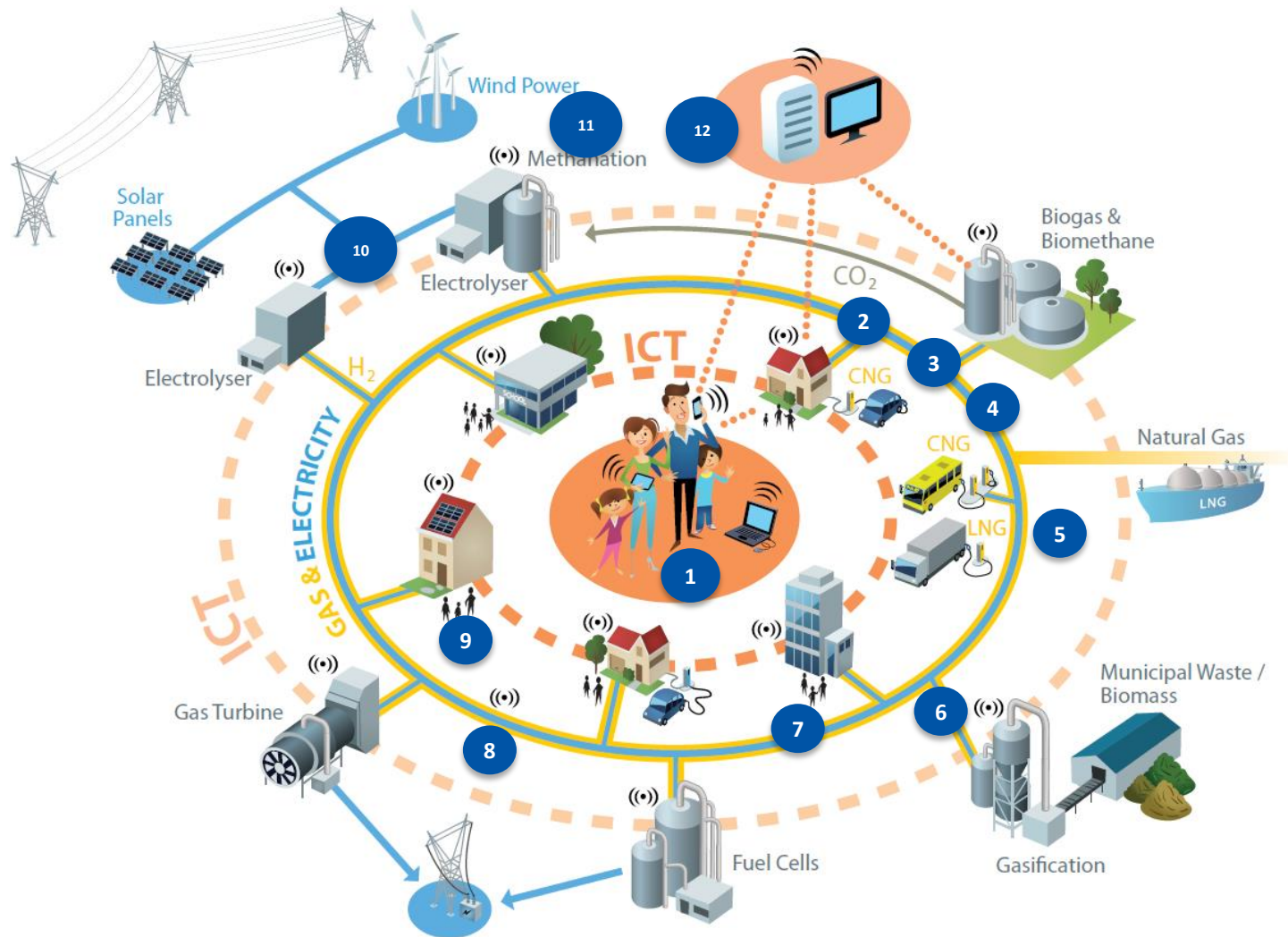


# ...For a system with bi-directional flows of information and energy from multiple sources with reliability...





# Projects references (1)

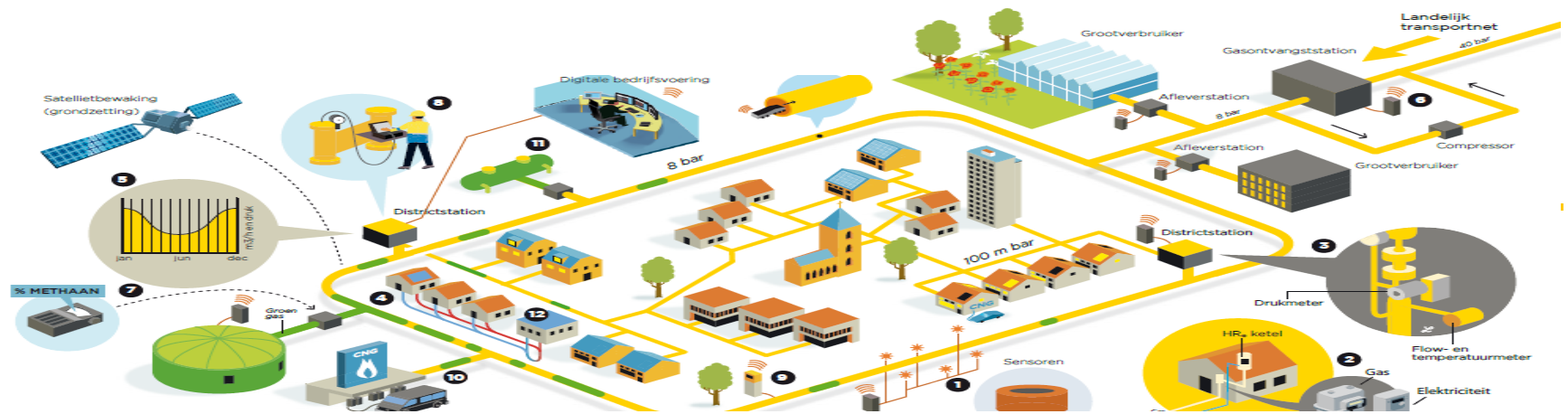


## Projects references (2)

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1. [Opower E.ON](#)
2. [BioNGV in France](#)
3. [DST, Gaya, Biomether LIFE+, Injection of biomethane in the grid, Bionet, Gontrand](#)
4. [ACEA Pinerolese – Biomethane service station \(project\), ACSM-Primiero biomethane service station \(project\)](#)
5. [STIGS \(Short Term Infrastructure for Gas Storage\), Montoir, Blue Corridor](#)
6. [Gothenburg gasification project SE](#)
7. [Greenlys for piloting bi-energy devices](#)
8. [Pilot Zuthpen sensing Pressure, Flow and temperature, Pirate robot, Use of radar satellite to observe ground settlement, Using sensor technology to monitor the network, CHARM airborne gas detection, Drones to survey the pipes, EDGAR in the NL, TEX project \(monitoring and management tools\), Micro Wobbe meter, Dynamic Pressure Control, Study of bi directional city gate, Cooperation of DSOs and TSOs to optimize the usage of linepack](#)
9. [Use of gas fired heat pump for cooling \(climatistion\), ene.field projet, Heat4you \(EU\), Energy hub - Veenendaal Oost, Smart Power city Apeldoorn, PowerMatching City](#)
10. [Falkenhagen, Frankfurt, GRHYD \(H2\), AMELAND, Smart Country Bitburg-Prüm in Rheinland-Pfalz](#)
11. [Wertle \(Audi E-Gas\), P2G Rozenburg](#)
12. [Energy in the Picture \(Energie in Beeld\)](#)





# Mind the Grids...

# ...And Grid the Minds



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**Thank you for your attention!**

## Contact details

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### **Marcogaz**

Av. Palmerston 4  
1000 Brussels  
BELGIUM

Phone:

+32 2 237 11 11

[marcogaz@marcogaz.org](mailto:marcogaz@marcogaz.org)

[www.marcogaz.org](http://www.marcogaz.org)

### **GERG**

Av. Palmerston 4  
1000 Brussels  
BELGIUM

Phone:

+32 2 230 80 17

[robertjudd@gerg.eu](mailto:robertjudd@gerg.eu)

[www.gerg.eu](http://www.gerg.eu)

### **Eurogas**

Av. de Cortenbergh 172  
1000 Brussels  
BELGIUM

Phone:

+32 2 894 48 48

[eurogas@eurogas.org](mailto:eurogas@eurogas.org)

[www.eurogas.org](http://www.eurogas.org)