

•• ONTRAS

Gas quality tracking tools

Decentralisation of injection points

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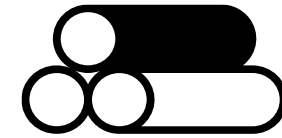


ONTRAS Gastransport GmbH



ONTRAS Gastransport GmbH is a nationwide natural gas transmission operator in the European grid system.

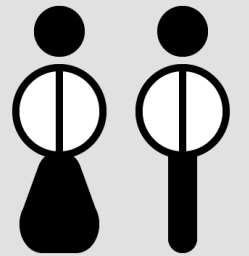
2006
Foundation



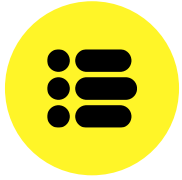
379
Employees



Headquarter
Leipzig
+ 13 locations



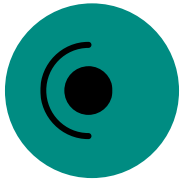
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7.700 km
High-pressure
pipelines



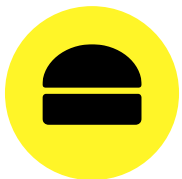
442
Network
interconnection points



6
Stores connected to
the network



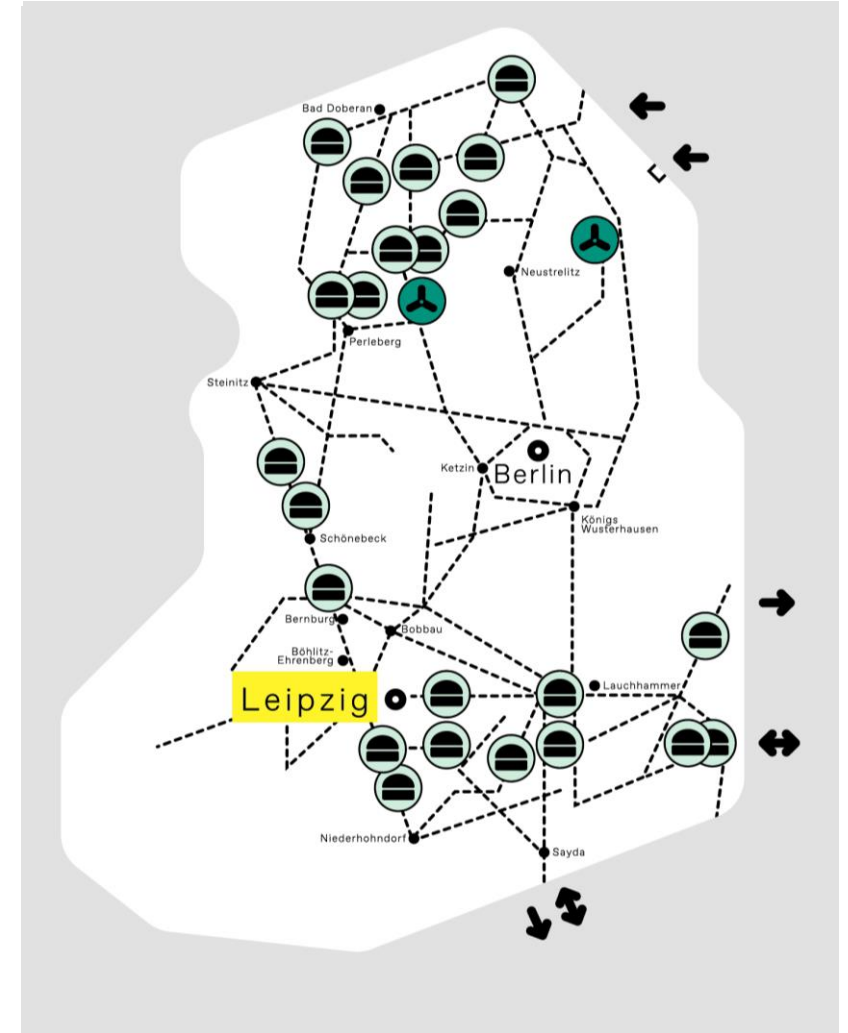
130
Downstream network
operators (grid area)



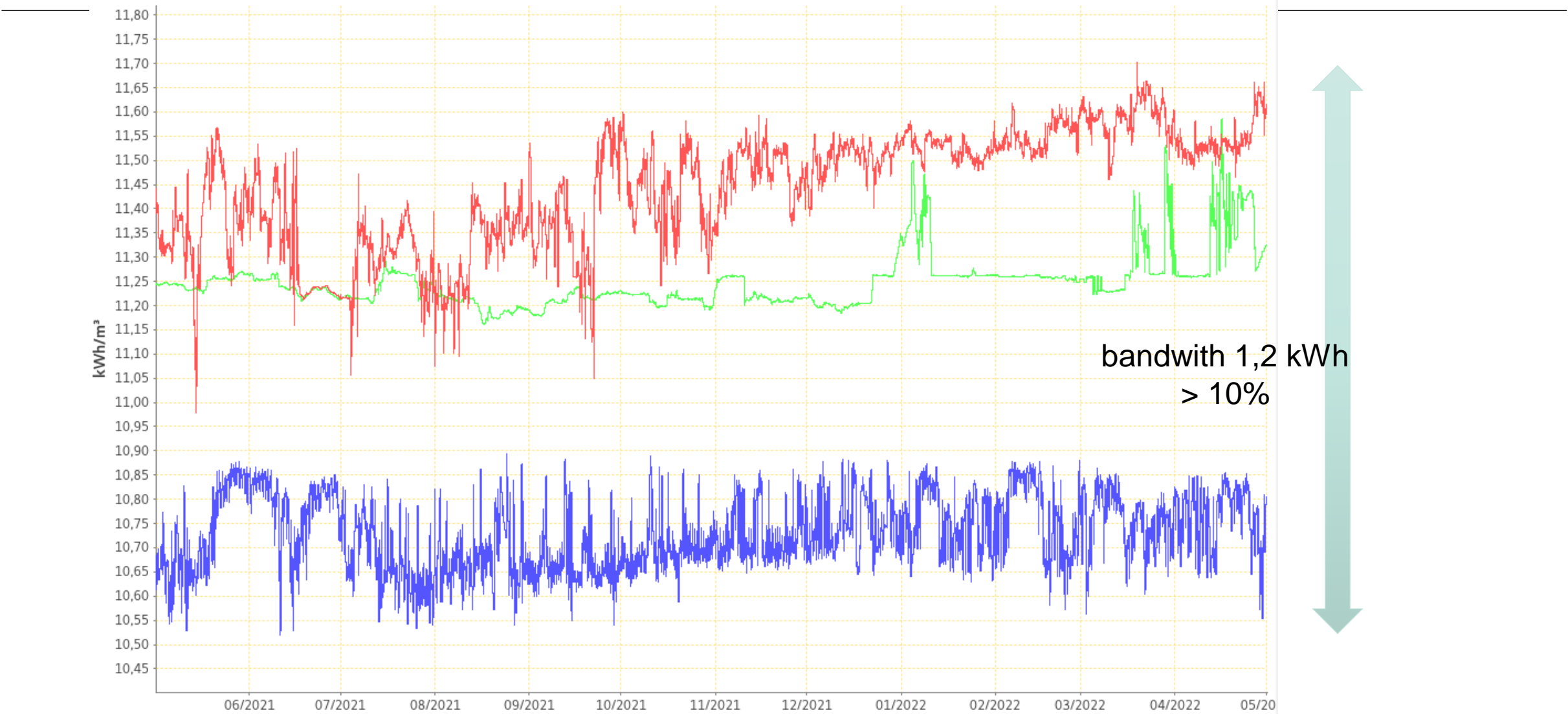
23
Connected biogas
plants



2
Connected power-to-
gas plants



GCV – H-Gas: pipeline gas vs biomethan



Energy determination at H-gas networks

ENTRY

- import (LNG + pipeline gas)
- national production
- (storage)
- biomethan
- hydrogen



TSO-network

connection points
between network
operators

& ENTRY

biomethan + hydrogen



DSO-network



EXIT (Customers)

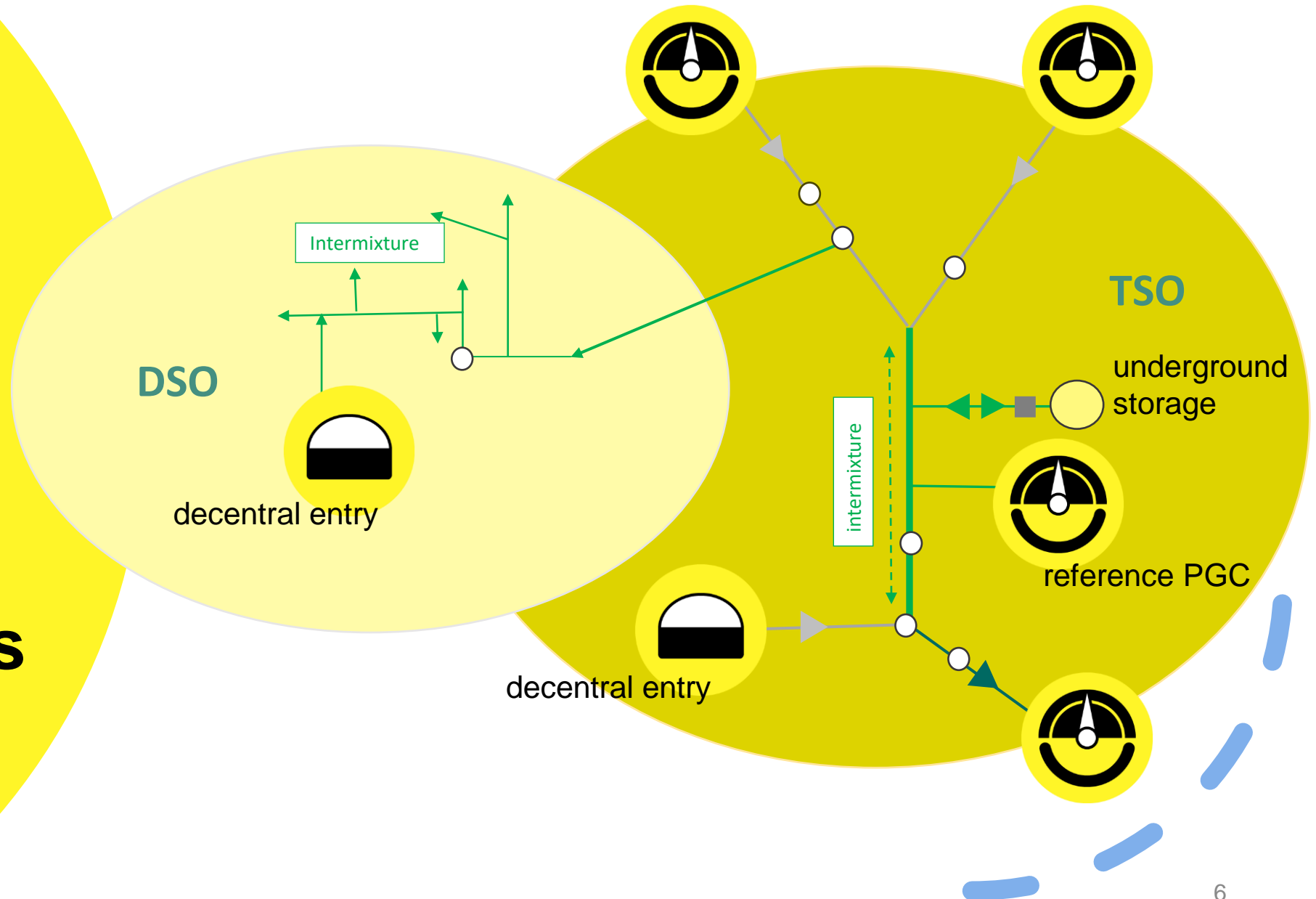
- standard load profile (SLP)
- industrial (RLM)

(redundant) process
gas chromatograph
(PGC)

- at exits german TSO: gas tracking system (REKO)
- PGC (industrial)

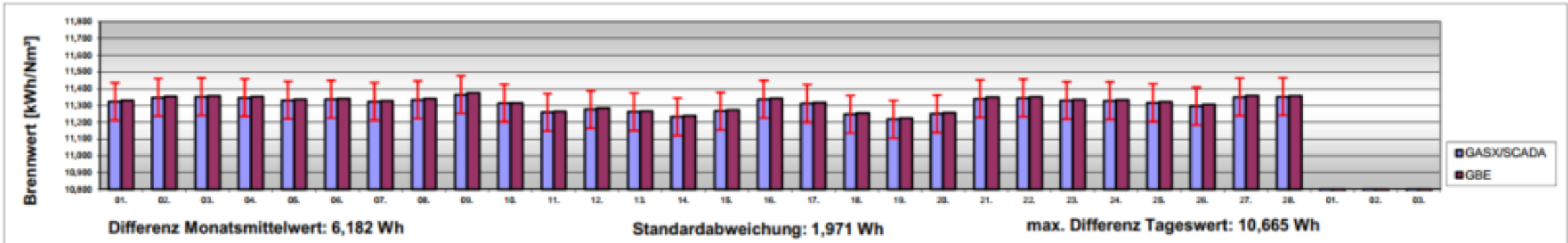
- calculation – DVGW G685
- gas tracking systems
- other methods

**meshed
networks
+
decentral
entrys
=
mixing zones**

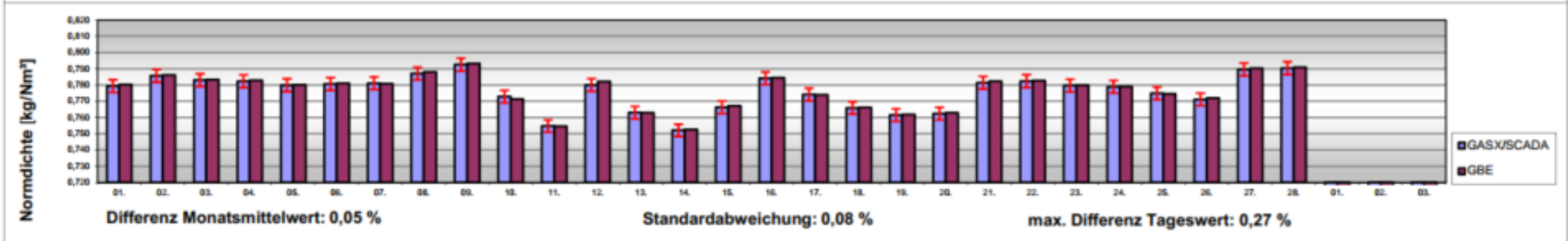


REKO vs. measured data at a reference point

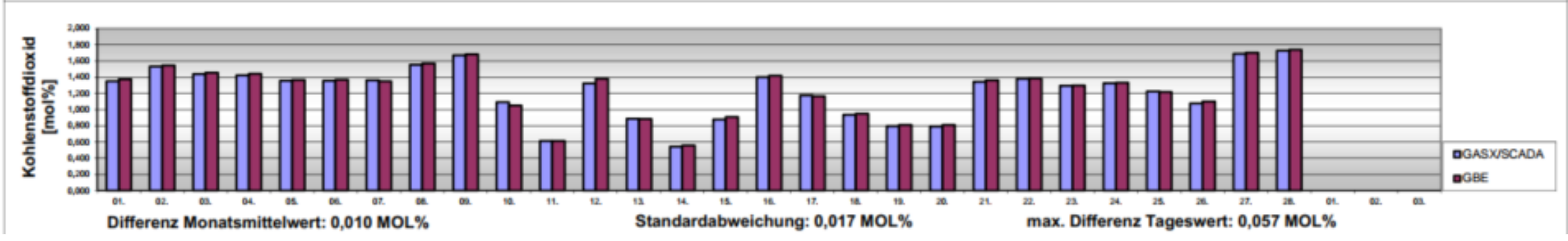
GCV



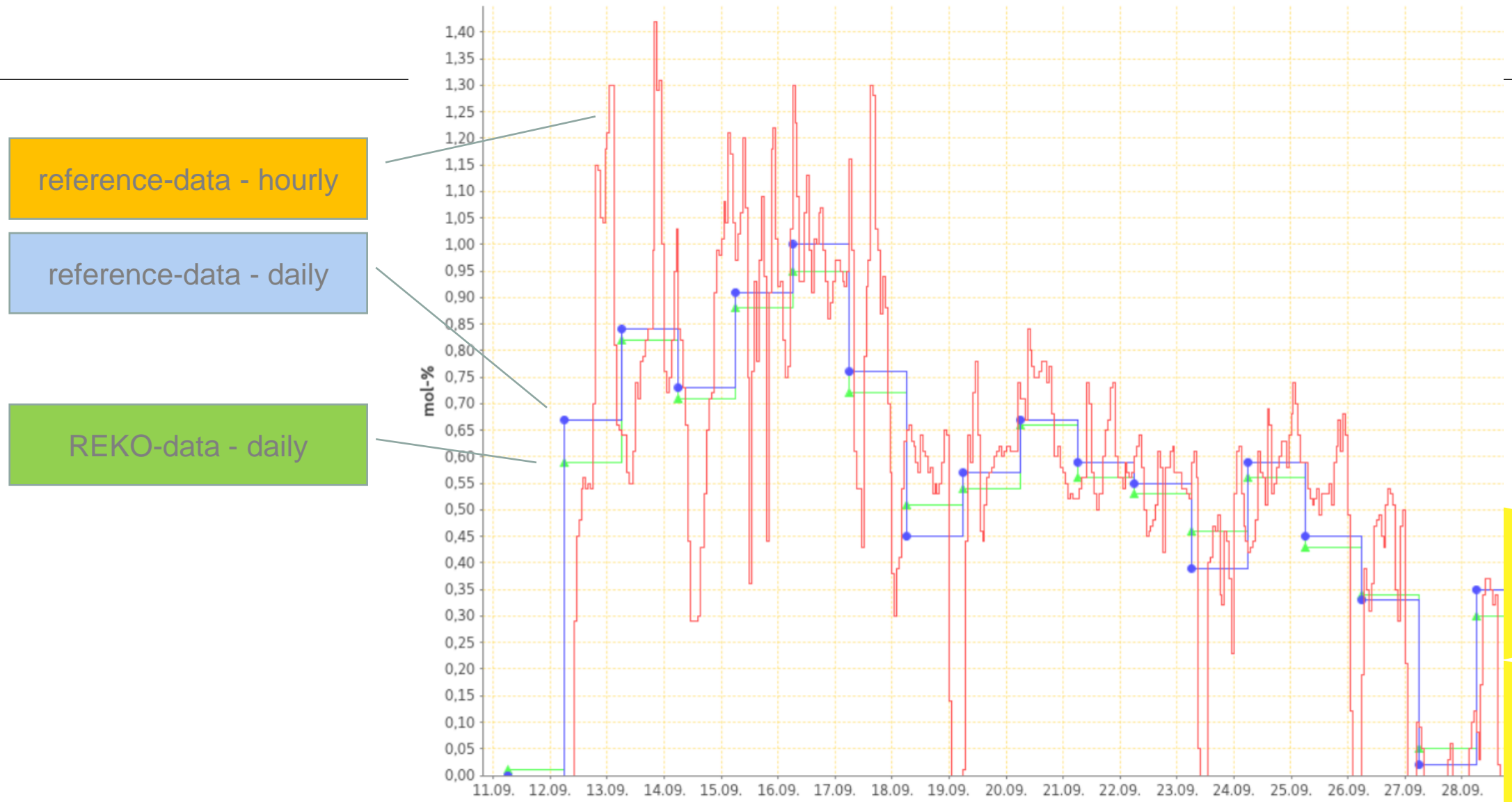
density



CO2



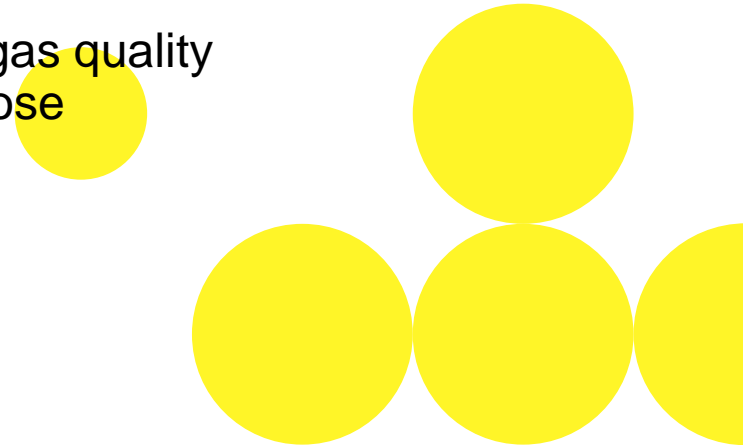
Blending H2 – comparison REKO vs. measured data

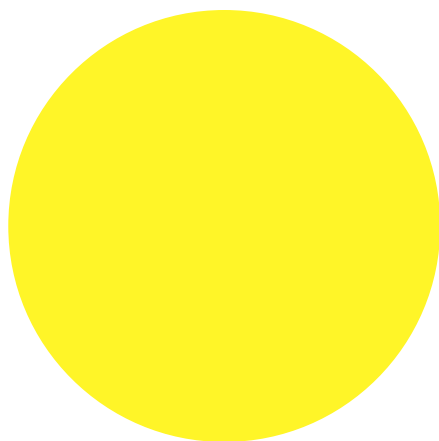
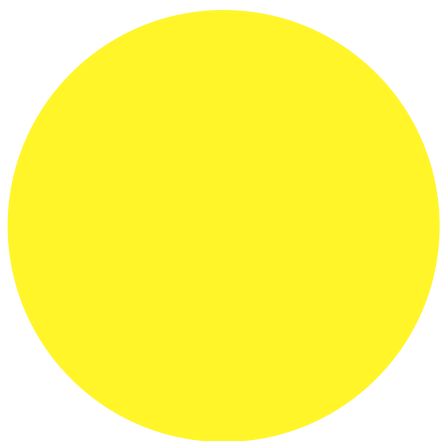
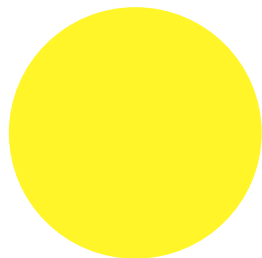
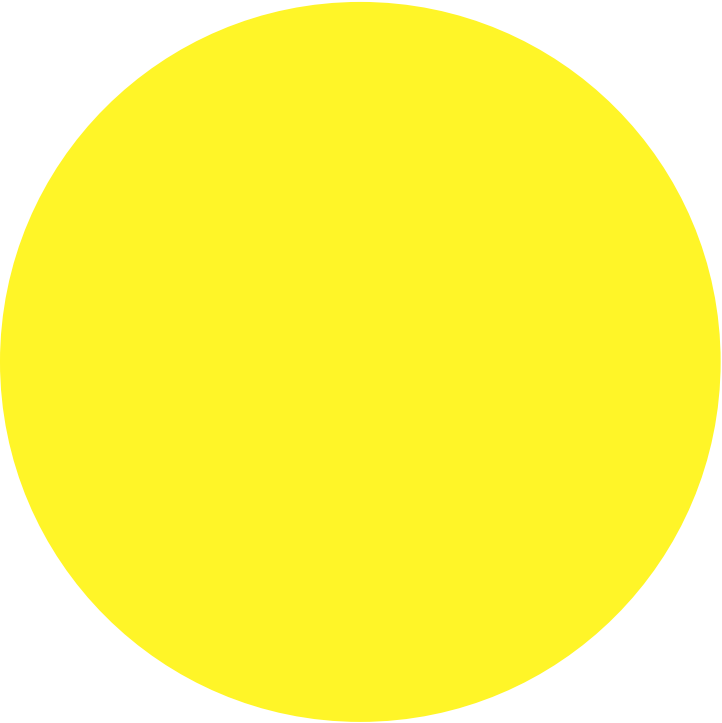


benefits of gas tracking systems



- accurate data at exit points for
 - invoicing reasons (GCV, energy determination)
 - gas compressibility (SGERG 88, AGA8)
 - calculation CO2 emissions
- efficient integration of decentral, green sources
 - hydrogen: mean costs for measurement
 - biomethan: minimal conditioning costs
- additional informational benefits for other gas quality parameters for customers or internal purpose
 - wobbe-index, oxygen ...
- (short term outlook)





Any Questions?

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