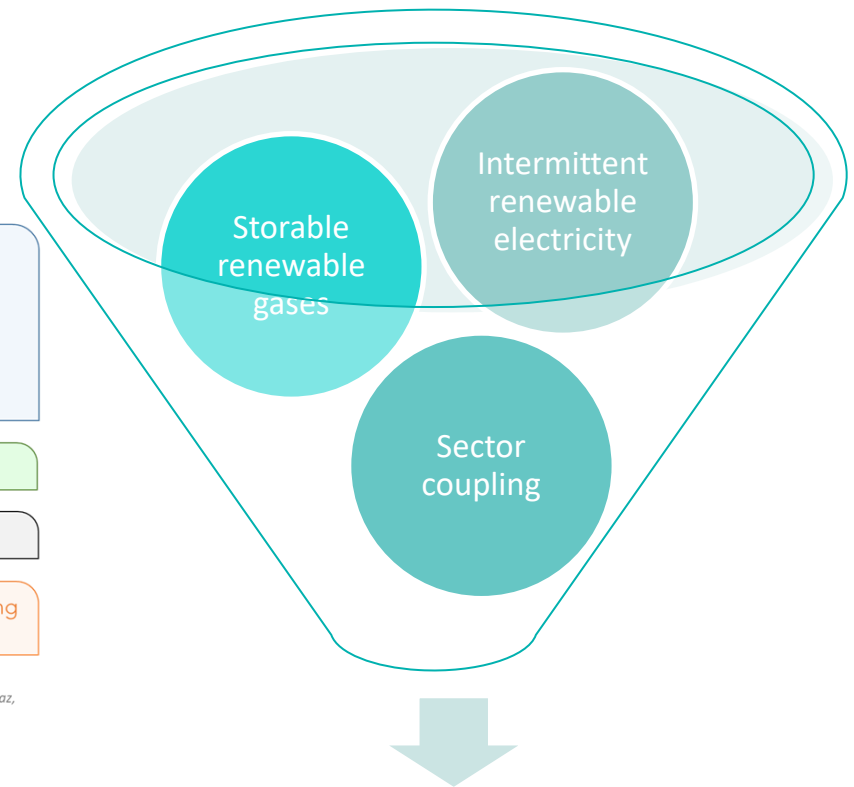
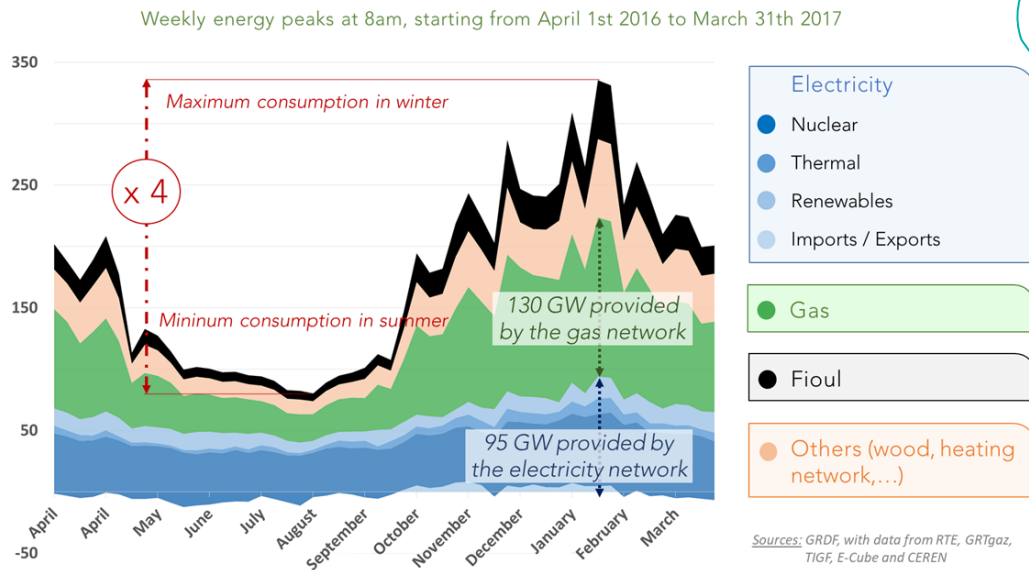


# Nice Smart Valley

## illustration of gas appliances flexibility & GRDF view on energy synergies

Cogen Europe Webinar – Smart Sector Integration Strategy



Resilient transition

# 3 InterFlex demos explore Cross Energy Carrier Synergies

3-years project duration

2017  
**2019**

with a  
total budget of

**22,8M€**

fostering collaboration among

**20** project  
partners

Swedish Demo A

**e.on**



Swedish Demo B

**e.on**



Malmö

Simris

Nice

NICE SMART VALLEY

French Demo

**ENEDIS**  
L'ELECTRICITE EN RESEAU

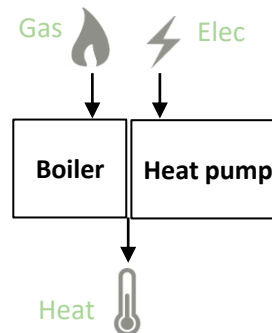


# Nice Smart Valley has explored flexibilities based on gas appliances

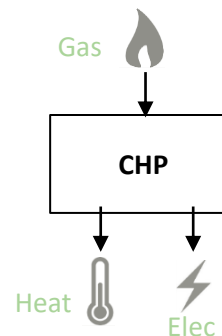
→ Remote control of hybrid heating systems (residential & non-residential hybrid rooftop)



→ Remote control of micro/mini CHP units (office & healthcare buildings)



The remote control system enable to switch from the heat pump to the boiler and vice versa

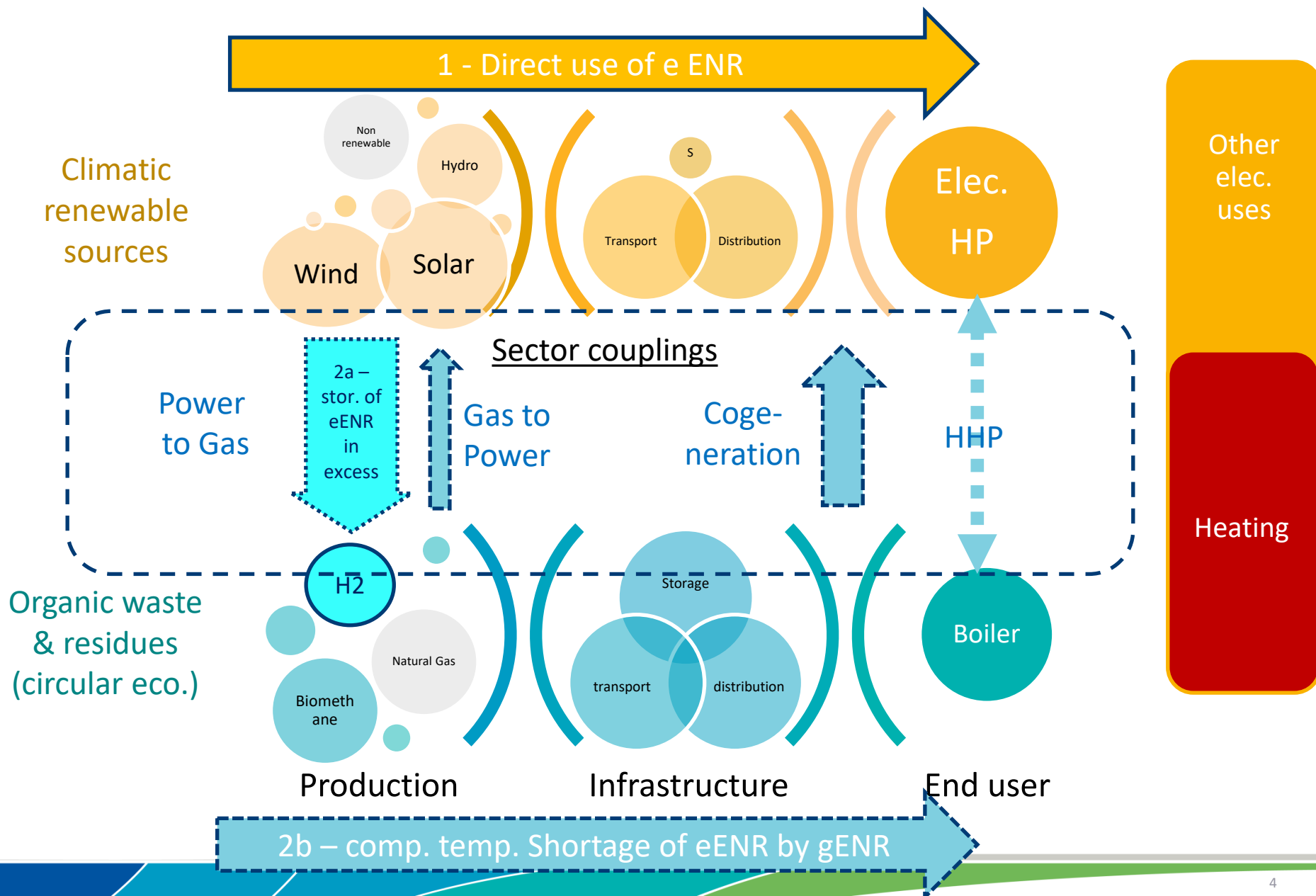


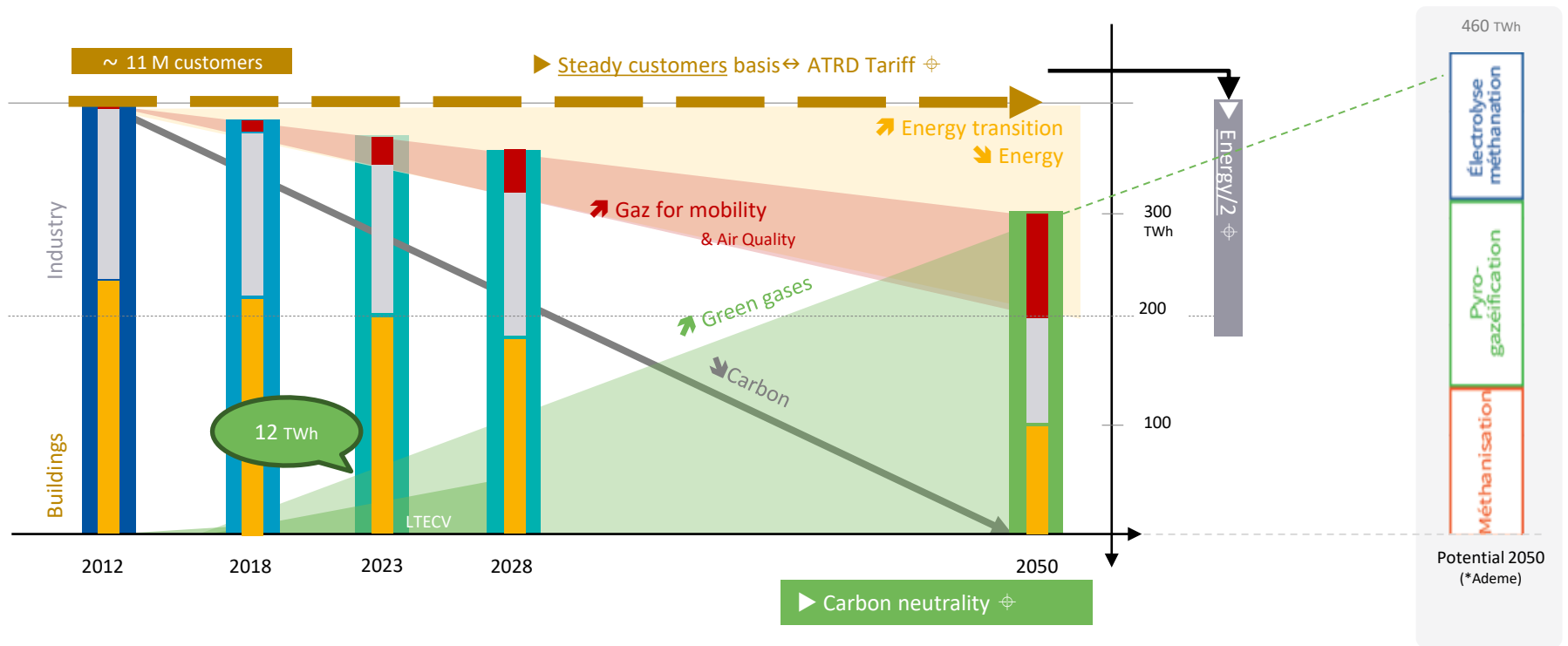
The CHP system produce more or less local electricity on demand, excess heat being stored in a tank

## Gas appliances can bring flexibility to the power networks at local, national and European level :

- Good technical skills : Very short reaction time (compliant with all flexibility pockets), long duration, no customer impact, no activation limit
- Value : up to 90 €/kWe/year in France

# System couplings to solve the energy trilemma





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