



# INTERREG ANNUAL EVENT 2021

7-8 OCTOBER, BRUSSELS

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The Netherlands

**#Interreg2021**

**Interreg**



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 **Smart Energy Region Emmen-Haren (SEREH)**



- SEREH is a cross border project initiated by two neighboring cities at the Dutch-German border.
- The aim of the project is to exploit the complementarity of the two cities for the benefit of both of them in reaching their goals concerning CO2 reduction.



Ministerie van Economische Zaken  
en Klimaat

*provincie Drenthe*

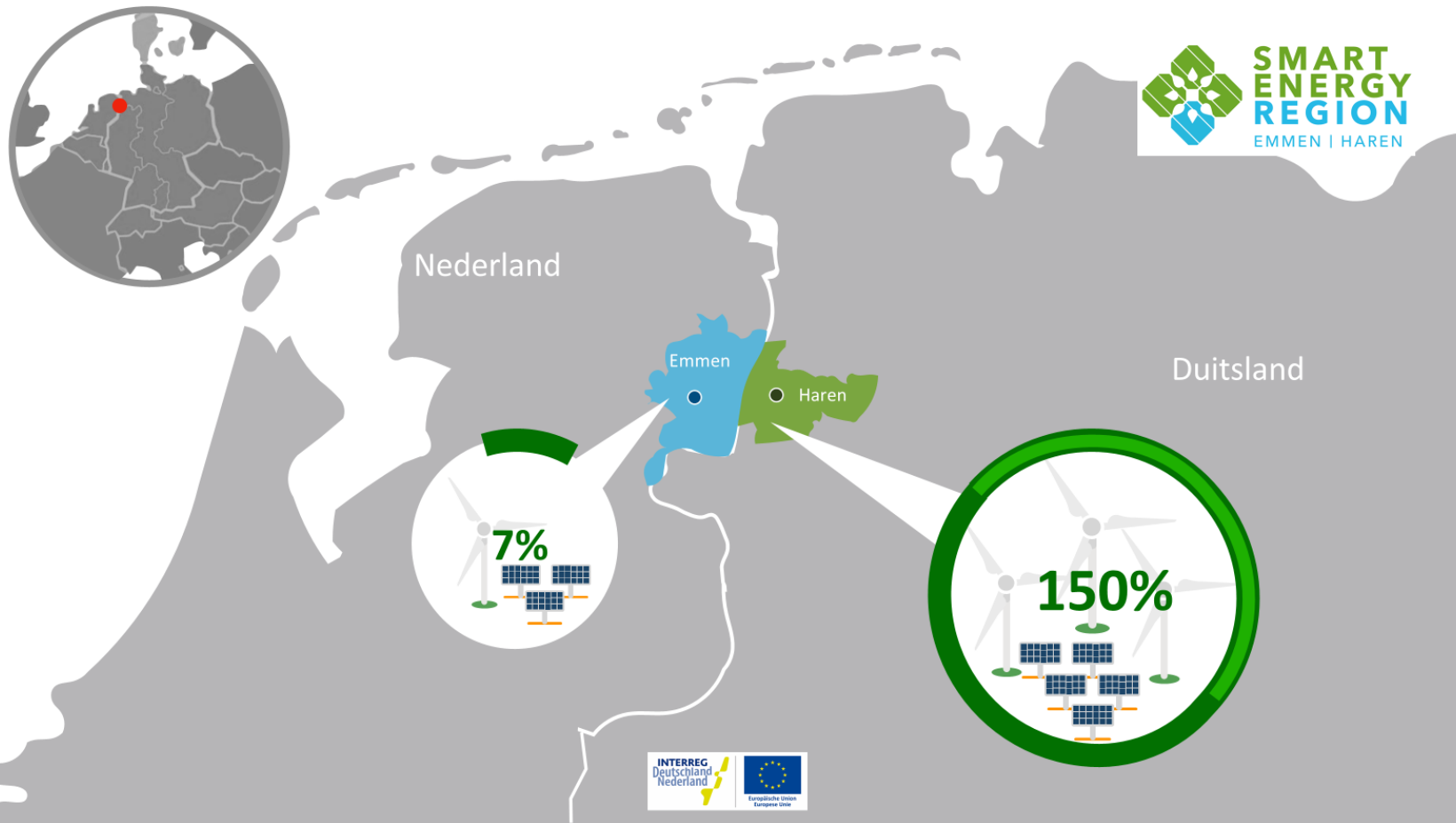


Niedersächsisches Ministerium  
für Bundes- und Europaangelegenheiten  
und Regionale Entwicklung





European  
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## Regional cross border approach

- Locally produced electric power used locally
- balance between supply and demand on the distribution grid
- The benefits of the energy transition kept in the region.
- local organization of the value chain: production, distribution, storage (battery, hydrogen convertor, demand side response)

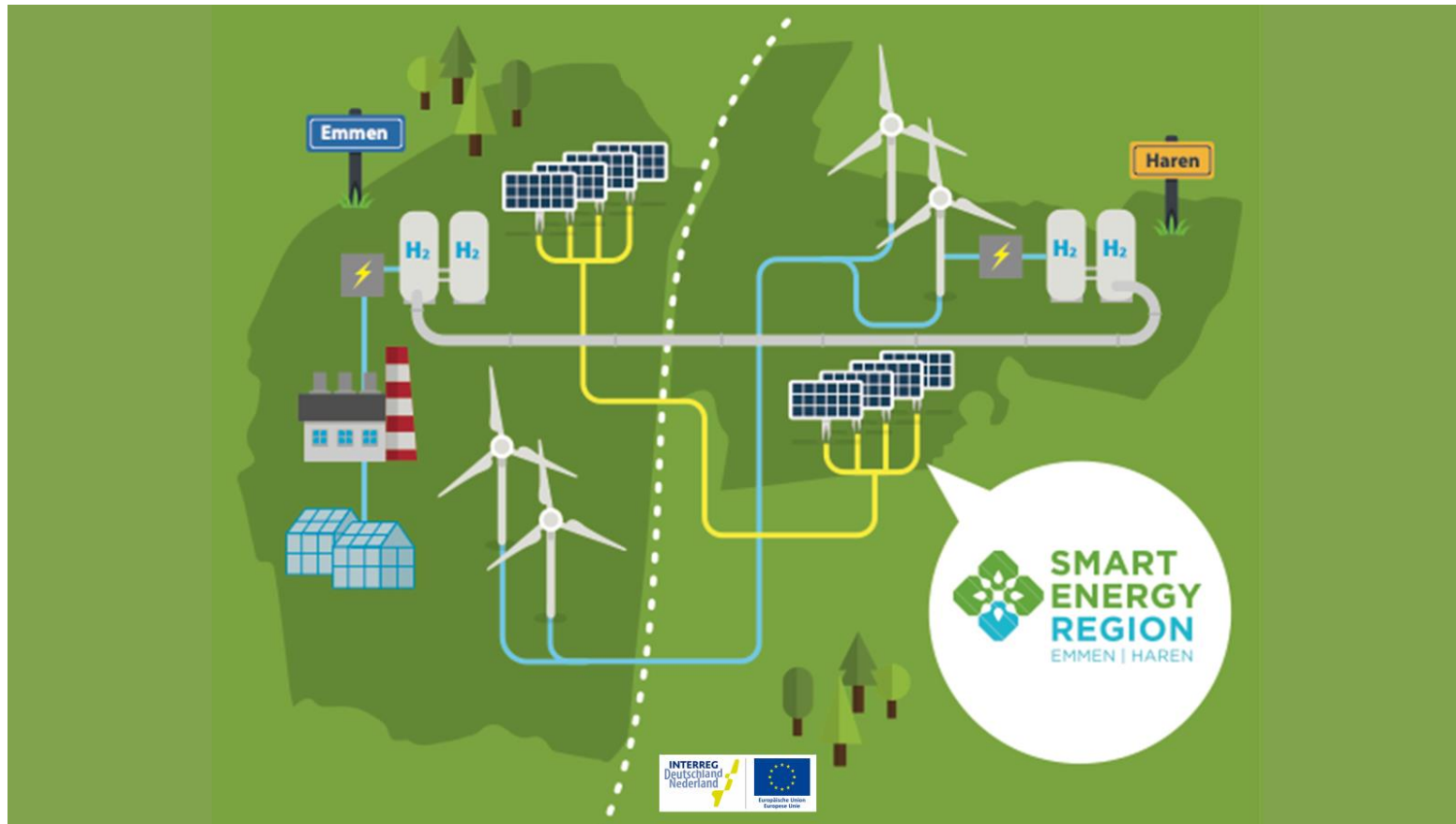
## Innovative elements

- **Cross border energy community** as vehicle for the regional approach
- **Cross border power exchange on medium voltage level** (distribution system)





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## Regulatory framework

### DIRECTIVE OF THE EUROPEAN PARLIAMENT EN THE COUNCIL *on common rules for the internal market in electricity*

**Article 16.2:** “Member States may provide in the enabling regulatory framework that citizen energy communities:

- (a) are open to cross-border participation;
- (b) are entitled to own, establish, purchase or lease distribution networks and to autonomously manage them subject to conditions set out in paragraph 4 of this Article;”

**Article 32:** DSO’s have the task to procure services for local congestion management

## State of play

- Feasibility study in progress, the results available end this year
- Preliminary results/conclusions:
  - ❖ Much lower system costs: about 32%
  - ❖ 15% more grid capacity
  - ❖ Legal challenges defined: alignment between regulations NL and D is complex,
  - ❖ **European sandbox framework needed for this**

## SEREH and Renewable Energy Targets

Constraining factors energy transition

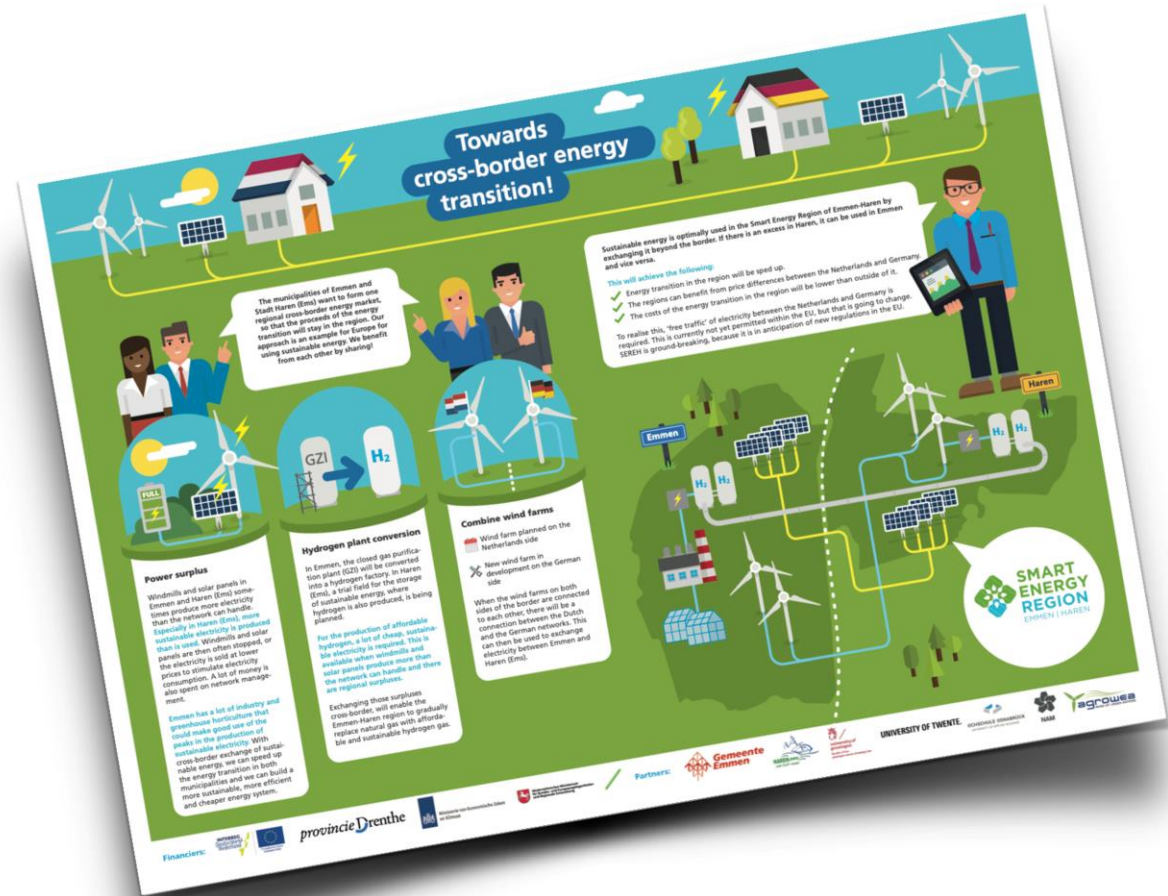
- ❖ Grid capacity
- ❖ Public support





## Solutions

- ❖ Decentralized energy systems
- ❖ Energy Communities



## SEREH and Interreg

### ❖ Possible future focus points

1. **Pilots**  
on decentralized energy systems
2. **Facilitating framework**  
for energy communities

