ZERO EMISSION VALLEY
Mathilde CADIC – Brussels office

La Région
Auvergne-Rhône-Alpes
Environmental issues

- Concentration of nitrogen oxides:
  - in urban areas
  - in industrial valleys surrounded by mountains
- Target: 43 000 T de CO2 avoided per year, including 25% for mobility uses

Economical support

- 80% of the French hydrogen value chain is located in the region
- 1st region in producing renewable energies thanks to hydroelectricity
  - in industrial valleys surrounded by mountains
- Target: 43 000 T de CO2 avoided per year, including 25% for mobility uses
ZERO EMISSION VALLEY
Simultaneous roll out of:

1200 H2 LIGHT VEHICLES & 20 CLEAN H2 REFUELLING STATIONS
ZERO EMISSION VALLEY
Financial partners: 50 M€
ZERO EMISSION VALLEY

1200 H2 light vehicles deployment by 2023

RENAULT KANGOO
Symbio packs

HYUNDAI NEXO

TOYOTA MIRAÏ
# ZERO EMISSION VALLEY

1200 H2 light vehicles deployment by 2023

## Regional & European subsidies

<table>
<thead>
<tr>
<th></th>
<th>Petite Entreprise, Collectivités et Associations</th>
<th>Moyenne Entreprise</th>
<th>Grande Entreprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>km/an pendant 4 ans</td>
<td>Subvention de la Région</td>
<td>Subvention de l’Union européenne avec station ZEV</td>
<td>Subvention de la Région</td>
</tr>
<tr>
<td>8 à 13000</td>
<td>2 700</td>
<td>6 100</td>
<td>2 400</td>
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<td>3 400</td>
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<tr>
<td>13001 à 25000</td>
<td>4 200</td>
<td>7 600</td>
<td>3 700</td>
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<td>&gt;25000</td>
<td>8 600</td>
<td>12 000</td>
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## National subsidies

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<th>Grande Entreprise</th>
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</thead>
<tbody>
<tr>
<td>50 Véhicules ‘Taxi’</td>
<td>21 000</td>
<td>16 500</td>
<td>12 000</td>
</tr>
<tr>
<td>148 Fourgons</td>
<td>25 200</td>
<td>20 000</td>
<td>14 800</td>
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<tr>
<td>2 bus</td>
<td>302 500</td>
<td>247 500</td>
<td>192 500</td>
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ZERO EMISSION VALLEY

20 clean H2 refuelling stations

MOST ADVANCED PROJECTS:
- Chambéry: Feb 14th 20
- Clermont-Ferrand: 2021
- Moutiers
- Grenoble
- Lyon
- Saint-Etienne
- Bourg-en-Bresse

3 large capacity electrolyser
(over 100 MW)
**ZERO EMISSION VALLEY**

**H2 HUB Auvergne-Rhône-Alpes**

*Focus on mobility*

- **Regional public transport**
  - Trains
  - Small buses
  - Coaches
  - Buses

- **New applications**
  - Garbage trucks
  - Snow groomers for ski resorts
  - Autonomous shuttles
  - Boats on Rhône river

**H2 ecosystem:**
- **Clusters:** CARA – TENERRDIS - AXELERA
- **Refueling stations:** Mc Phy, Atawey, AIR LIQUIDE, CNR, Hympulsion
- **Fuel cells:** Symbio, Faurecia, Addup
- **Power electronic:** Alstom, Adetel
- **On board storage:** Plastic Omnium, Staübli
- **Manufacturers:** Renault Trucks, IVECO, VOLVO, CRMT, Trouillet, Navya, Addbike, Poma, Michelin,
- **Operators:** BETI, Berthelet
- **RTOs:** CEA liten, CNRS, Gustave Eiffel
- **Security –regulation:** CETU, INERIS
- **Test centers:** Transpolis, Greenmo
ZERO EMISSION VALLEY
Auvergne-Rhône-Alpes European Leading region on Hydrogen technologies

- Member of the Clean hydrogen Alliance
- Co leader of the S3 Hydrogen Valleys partnership
  50 region & cities from 13 European countries engaged
- Leader the EUSALP working group on H2