Reference Projects

HZI BioMethan

in chronological order
<table>
<thead>
<tr>
<th>Location</th>
<th>Start of operation</th>
<th>Anaerobic Digestion</th>
<th>Gas Upgrading</th>
<th>Plant Capacity</th>
<th>Biomethane Production</th>
<th>Biomethane Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR, Coulombs-en-Valois</td>
<td>2021</td>
<td>2</td>
<td>Membrane</td>
<td>500 Nm³/h</td>
<td>250 Nm³/h</td>
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<tr>
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<td>FR, Prémierfait</td>
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## FR, Chapelle-Vallon

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<td>Net volume per digester</td>
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<tr>
<td>Digester Type</td>
<td>Wet AD</td>
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<tr>
<td>Biogas Usage</td>
<td>Biomethane for gas-grid injection</td>
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<tr>
<td>Gas Upgrading</td>
<td></td>
</tr>
<tr>
<td>Technology</td>
<td>Membrane</td>
</tr>
<tr>
<td>Input Gas</td>
<td>Biogas from Agricultural Crops and Residues</td>
</tr>
<tr>
<td>Biomethane Production</td>
<td>300 Nm³/h</td>
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<td>Biomethane Usage</td>
<td>Biomethane for gas-grid injection</td>
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## FR, Bar-sur-Seine

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<td>Digester Type</td>
<td>Wet AD</td>
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<td>Biogas Usage</td>
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<td>Technology</td>
<td>Membrane</td>
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<td>Input Gas</td>
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<td>Plant Capacity</td>
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## FR, Saint-Mesmin

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<tr>
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<tr>
<td>Net volume per digester</td>
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<td>Digester Type</td>
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<td>Biogas Usage</td>
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<td>Technology</td>
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<td>Input Gas</td>
<td>Biogas from Agricultural Crops and Residues</td>
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<td>Biomethane Usage</td>
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## FR, Charny

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<td>Biogas Usage</td>
<td>Biomethane for gas-grid injection</td>
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<td>Gas Upgrading</td>
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<tr>
<td>Technology</td>
<td>Membrane</td>
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<tr>
<td>Input Gas</td>
<td>Biogas from Agricultural Crops and Residues</td>
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<tr>
<td>Plant Capacity</td>
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<td>Biomethane Production</td>
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<td>Biomethane Usage</td>
<td>Biomethane for gas-grid injection</td>
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</table>
### FR, Saint-Germain
- **Start of operation:** 2020
- **Number of Digester(s):** 2
- **Net volume per digester:** 2300 m³
- **Digester Type:** Wet AD
- **Gas Upgrading Technology:** Membrane
- **Input Gas:** Biogas from Agricultural Crops and Residues
- **Plant Capacity:** 400 Nm³/h
- **Biomethane Production:** 200 Nm³/h
- **Biomethane Usage:** Biomethane for gas-grid injection

### FR, Les-Grandes-Chapelles
- **Start of operation:** 2020
- **Number of Digester(s):** 2
- **Net volume per digester:** 2300 m³
- **Digester Type:** Wet AD
- **Gas Upgrading Technology:** Membrane
- **Input Gas:** Biogas from Agricultural Crops and Residues
- **Plant Capacity:** 600 Nm³/h
- **Biomethane Production:** 300 Nm³/h
- **Biomethane Usage:** Biomethane for gas-grid injection

### US, Southern California
- **Start of operation:** 2020
- **Technology:** Membrane
- **Plant Capacity:** 1000 Nm³/h
- **Biomethane Production:** 500 Nm³/h
- **Biomethane Usage:** Biomethane for gas-grid injection

### FR, Herpy-l’Arlésienne
- **Start of operation:** 2020
- **Number of Digester(s):** 2
- **Net volume per digester:** 2300 m³
- **Digester Type:** Wet AD
- **Gas Upgrading Technology:** Membrane
- **Input Gas:** Biogas from Agricultural Crops and Residues
- **Plant Capacity:** 600 Nm³/h
- **Biomethane Production:** 300 Nm³/h
- **Biomethane Usage:** Biomethane for gas-grid injection
### SE, Jönköping
- **Start of operation**: 2020
- **In construction**: 2020
- **Number of Digester(s)**: 2
- **Net volume per digester**: 1500 m³
- **Waste Type**: Bio Waste, Food Waste, Green Waste
- **Waste Throughput per Year**: 40000 t/a
- **Biogas Usage Technology**: Membrane
- **Input Gas**: Biogas from Green Waste & Bio Waste
- **Plant Capacity**: 717 Nm³/h
- **Biomethane Production**: 430 Nm³/h
- **Biomethane Usage**: Biomethane Filling Station, CNG

### FR, Trouy
- **Start of operation**: 2020
- **In construction**: 2020
- **Number of Digester(s)**: 1
- **Net volume per digester**: 2300 m³
- **Digestor Type**: Wet AD
- **Biogas Usage**: Biomethane for gas-grid injection
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Agricultural Crops and Residues
- **Plant Capacity**: 300 Nm³/h
- **Biomethane Production**: 250 Nm³/h
- **Biomethane Usage**: Biomethane for gas-grid injection

### FR, Yversay
- **Start of operation**: 2020
- **In construction**: 2020
- **Number of Digester(s)**: 2
- **Net volume per digester**: 2300 m³
- **Digestor Type**: Wet AD
- **Biogas Usage**: Biomethane for gas-grid injection
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Agricultural Crops and Residues
- **Plant Capacity**: 500 Nm³/h
- **Biomethane Production**: 250 Nm³/h
- **Biomethane Usage**: Biomethane for gas-grid injection

### FR, Bucy-le-Long
- **Start of operation**: 2020
- **In construction**: 2020
- **Number of Digester(s)**: 2
- **Net volume per digester**: 2300 m³
- **Digestor Type**: Wet AD
- **Biogas Usage**: Biomethane for gas-grid injection
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Agricultural Crops and Residues
- **Plant Capacity**: 500 Nm³/h
- **Biomethane Production**: 250 Nm³/h
- **Biomethane Usage**: Biomethane for gas-grid injection
### FR, Neuville-Saint-Amand

- **Start of operation**: 2020
- **Anaerobic Digestion**
  - Number of Digester(s): 2
  - Net volume per digester: 2300 m³
  - Digester Type: Wet AD
  - Biogas Usage: Biomethane for gas-grid injection
- **Gas Upgrading**
  - Technology: Membrane
  - Input Gas: Biogas from Agricultural Crops and Residues
  - Plant Capacity: 500 Nm³/h
  - Biomethane Production: 250 Nm³/h
  - Biomethane Usage: Biomethane for gas-grid injection

### FR, Saint-Aubin

- **Start of operation**: 2020
  - In construction
- **Anaerobic Digestion**
  - Number of Digester(s): 2
  - Net volume per digester: 2300 m³
  - Digester Type: Wet AD
  - Biogas Usage: Biomethane for gas-grid injection
- **Gas Upgrading**
  - Technology: Membrane
  - Input Gas: Biogas from Agricultural Crops and Residues
  - Plant Capacity: 500 Nm³/h
  - Biomethane Production: 250 Nm³/h
  - Biomethane Usage: Biomethane for gas-grid injection

### FR, Messy

- **Start of operation**: 2020
  - In construction
- **Anaerobic Digestion**
  - Number of Digester(s): 2
  - Net volume per digester: 2300 m³
  - Digester Type: Wet AD
  - Biogas Usage: Biomethane for gas-grid injection
- **Gas Upgrading**
  - Technology: Membrane
  - Input Gas: Biogas from Agricultural Crops and Residues
  - Plant Capacity: 600 Nm³/h
  - Biomethane Production: 430 Nm³/h
  - Biomethane Usage: Biomethane for gas-grid injection

### DK, Vrå

- **Start of operation**: 2020
  - In construction
- **Gas Upgrading**
  - Technology: Membrane
  - Input Gas: Biogas from Agricultural Crops and Residues
  - Plant Capacity: 900 Nm³/h
  - Biomethane Production: 500 Nm³/h
  - Biomethane Usage: Biomethane for gas-grid injection
**GB, Aberdeenshire**

- **Start of operation**: 2020
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Green Waste & Bio Waste
- **Plant Capacity**: 1200 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection

**FR, Chalandry**

- **Start of operation**: 2020
- **Anaerobic Digestion**: Number of Digester(s) 2, Net volume per digester 2300 m$^3$, Digester Type Wet AD, Biogas Usage Biomethane for gas-grid injection
- **Gas Upgrading Technology**: Membrane, Biogas from Agricultural Crops and Residues
- **Plant Capacity**: 500 Nm$^3$/h
- **Biomethane Production**: 250 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection

**FR, Saint-Laurent-Médoc**

- **Start of operation**: 2019
- **Anaerobic Digestion**: Number of Digester(s) 2, Net volume per digester 2300 m$^3$, Digester Type Wet AD, Biogas Usage Biomethane for gas-grid injection
- **Gas Upgrading Technology**: Membrane, Biogas from Agricultural Crops and Residues
- **Plant Capacity**: 500 Nm$^3$/h
- **Biomethane Production**: 250 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection

**FR, Payns**

- **Start of operation**: 2019
- **Anaerobic Digestion**: Number of Digester(s) 2, Net volume per digester 2300 m$^3$, Digester Type Wet AD, Biogas Usage Biomethane for gas-grid injection
- **Gas Upgrading Technology**: Membrane, Biogas from Agricultural Crops and Residues
- **Plant Capacity**: 500 Nm$^3$/h
- **Biomethane Production**: 250 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection
<table>
<thead>
<tr>
<th>Location</th>
<th>Start of Operation</th>
<th>Technology</th>
<th>Input Gas</th>
<th>Plant Capacity</th>
<th>Biomethane Production</th>
<th>Biomethane Usage</th>
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<tbody>
<tr>
<td>DE, Hamburg</td>
<td>2019</td>
<td>Amine Scrubbing</td>
<td>Biogas from Sewage Sludge</td>
<td>600 Nm$^3$/h, 930 Nm$^3$/h</td>
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<td>FR, Audenge</td>
<td>2018</td>
<td>Membrane</td>
<td>Biogas from Agricultural Crops and Residues</td>
<td>250 Nm$^3$/h</td>
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<td>FR, Cernay</td>
<td>2018</td>
<td>Membrane</td>
<td>Biogas from Agricultural Crops and Residues</td>
<td>250 Nm$^3$/h</td>
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### FR, Fère-Champenoise

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<td>Technology</td>
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<td>Input Gas</td>
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<tr>
<td>Biomethane Production</td>
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<td>Biomethane Usage</td>
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### DE, Grabsleben II

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### DE, Parum

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### DE, Plaidt

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<td>Gas Upgrading</td>
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<td>Technology</td>
<td>Biogas from Green Waste &amp; Bio Waste</td>
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<td>Biomethane Usage</td>
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<td>Location</td>
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<tr>
<td>FR, Pommeuse</td>
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<td>FR, Saconin</td>
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<td>FR, Saints</td>
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<td>FR, Noyen</td>
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</table>
**CH, Niedergösgen**

- **Start of operation**: 2017
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Sewage Sludge
- **Biomethane Production**: 280 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection

**CH, Thun**

- **Start of operation**: 2017
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Sewage Sludge
- **Biomethane Production**: 130 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection

**FR, Barberey**

- **Start of operation**: 2017
- **Anaerobic Digestion Number of Digester(s)**: 2
- **Net volume per digester**: 2300 m$^3$
- **Digester Type**: Wet AD
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Agricultural Crops and Residues
- **Biomethane Production**: 250 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection

**FR, Brie**

- **Start of operation**: 2016
- **Anaerobic Digestion Number of Digester(s)**: 2
- **Net volume per digester**: 2300 m$^3$
- **Digester Type**: Wet AD
- **Gas Upgrading Technology**: Membrane
- **Input Gas**: Biogas from Agricultural Crops and Residues
- **Biomethane Production**: 250 Nm$^3$/h
- **Biomethane Usage**: Biomethane for gas-grid injection
**FR, Meaux**
- Start of operation: 2016
- Anaerobic Digestion: Number of Digester(s) 2
- Net volume per digester: 2300 m$^3$
- Biogas Usage: Wet AD
- Biogas Technology: Membrane
- Input Gas: Biogas from Agricultural Crops and Residues
- Biomethane Production: 250 Nm$^3$/h
- Biomethane Usage: Biomethane for gas-grid injection

**DE, Wittenburg**
- Start of operation: 2015
- Gas Upgrading Technology: Membrane
- Input Gas: Biogas from Agricultural Crops and Residues
- Biomethane Production: 350 Nm$^3$/h
- Biomethane Usage: Biomethane for gas-grid injection

**FR, Thennelières**
- Start of operation: 2015
- Anaerobic Digestion: Number of Digester(s) 2
- Net volume per digester: 2300 m$^3$
- Biogas Usage: Wet AD
- Biogas Technology: Membrane
- Input Gas: Biogas from Agricultural Crops and Residues
- Biomethane Production: 250 Nm$^3$/h
- Biomethane Usage: Biomethane for gas-grid injection

**DE, Heinfelde**
- Start of operation: 2015
- Gas Upgrading Technology: Amine Scrubbing
- Input Gas: Biogas from Source Separated Waste
- Biomethane Production: 500 Nm$^3$/h
- Biomethane Usage: Biomethane for gas-grid injection
<table>
<thead>
<tr>
<th>Location</th>
<th>Start of operation</th>
<th>Technology</th>
<th>Input Gas</th>
<th>Biomethane Production</th>
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<th>Input Gas</th>
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<th>Input Gas</th>
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<tbody>
<tr>
<td><strong>DE, Feldberg</strong></td>
<td>2014</td>
<td>Membrane</td>
<td>Biogas from Energy Crops</td>
<td>350 Nm³/h</td>
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<tr>
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<td>Membrane</td>
<td>Biogas from Agricultural Crops and Residues</td>
<td>350 Nm³/h</td>
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<td><strong>CH, Winterthur Digester</strong></td>
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</tbody>
</table>
**CH, Zuchwil**

- Start of operation: 2014
- Technology: Gas Upgrading
- Input Gas: Biomethane Production
- Biomethane Usage: Gas Upgrading
- Membrane: Biogas from Sewage Sludge
- 130 Nm³/h: Biomethane for gas-grid injection

**FR, Ussy-sur-Marne**

- Start of operation: 2014
- Anaerobic Digestion: Number of Digester(s) 2, Net volume per digester 2300 m³, Digester Type Wet AD, Biogas Usage Biomethane for gas-grid injection
- Gas Upgrading: Technology Input Gas Biomethane Production Biomethane Usage
- Membrane: Biogas from Agricultural Crops and Residues
- 250 Nm³/h: Biomethane for gas-grid injection

**FR, Sourdun**

- Start of operation: 2014
- Anaerobic Digestion: Number of Digester(s) 2, Net volume per digester 2300 m³, Digester Type Wet AD, Biogas Usage Biomethane for gas-grid injection
- Gas Upgrading: Technology Input Gas Biomethane Production Biomethane Usage
- Membrane: Biogas from Agricultural Crops and Residues
- 250 Nm³/h: Biomethane for gas-grid injection

**FR, Méry-sur-Seine**

- Start of operation: 2014
- Anaerobic Digestion: Number of Digester(s) 2, Net volume per digester 2300 m³, Digester Type Wet AD, Biogas Usage Biomethane for gas-grid injection
- Gas Upgrading: Technology Input Gas Biomethane Production Biomethane Usage
- Membrane: Biogas from Agricultural Crops and Residues
- 250 Nm³/h: Biomethane for gas-grid injection
DE, Niederröblingen
Start of operation 2014
Gas Upgrading
Technology Amine Scrubbing
Input Gas
Biogas from Agricultural Crops and Residues
Biomethane Production 350 Nm$^3$/h
Biomethane Usage Biomethane for gas-grid injection

DE, Rackwitz
Start of operation 2014
Gas Upgrading
Technology Amine Scrubbing
Input Gas
Biogas from Agricultural Crops and Residues
Biomethane Production 700 Nm$^3$/h
Biomethane Usage Biomethane for gas-grid injection

DE, Werlte
Start of operation 2013
Gas Upgrading
Technology Amine Scrubbing
Input Gas
Biogas from Energy Crops
Biomethane Production 500 Nm$^3$/h
Biomethane Usage Biomethane for gas-grid injection

DE, Altenhof
Start of operation 2013
Gas Upgrading
Technology Amine Scrubbing
Input Gas
Biogas from Energy Crops
Biomethane Production 700 Nm$^3$/h
Biomethane Usage Biomethane for gas-grid injection
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DE, Leizen
Start of operation: 2012
Technology: Amine Scrubbing
Input Gas: Biogas from Energy Crops
Biomethane Production: 350 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection

DE, Klein Wanzleben
Start of operation: 2012
Technology: Amine Scrubbing
Input Gas: Biogas from Energy Crops
Biomethane Production: 700 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection

DE, Karben
Start of operation: 2012
Technology: Amine Scrubbing
Input Gas: Biogas from Energy Crops
Biomethane Production: 350 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection

DE, Heidenau
Start of operation: 2012
Technology: Amine Scrubbing
Input Gas: Biogas from Energy Crops
Biomethane Production: 350 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection
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**DE, Schwedt**

Start of operation: 2011
Gas Upgrading

Technology: Amine Scrubbing
Input Gas: Biogas from Energy Crops
Biomethane Production: 700 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection

**DE, Gross Kelle**

Start of operation: 2011
Gas Upgrading

Technology: Amine Scrubbing
Input Gas: Biogas from Energy Crops
Biomethane Production: 250 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection

**DE, Karft**

Start of operation: 2011
Gas Upgrading

Technology: Amine Scrubbing
Input Gas: Biogas from Source Separated Waste
Biomethane Production: 500 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection

**DE, Jürgenshagen**

Start of operation: 2011
Gas Upgrading

Technology: Amine Scrubbing
Input Gas: Biogas from Energy Crops
Biomethane Production: 350 Nm$^3$/h
Biomethane Usage: Biomethane for gas-grid injection
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**DE, Hardegsen**
- Start of operation: 2009
- Gas Upgrading Technology: Amine Scrubbing
- Input Gas: Biogas from Energy Crops
- Biomethane Production: 550 Nm$^3$/h
- Biomethane Usage: Biomethane for gas-grid injection

**DE, Horn-Bad Meinberg**
- Start of operation: 2009
- Gas Upgrading Technology: Amine Scrubbing
- Input Gas: Biogas from Energy Crops
- Biomethane Production: 1000 Nm$^3$/h
- Biomethane Usage: Biomethane for gas-grid injection

**DE, Einbeck**
- Start of operation: 2009
- Gas Upgrading Technology: Amine Scrubbing
- Input Gas: Biogas from Energy Crops
- Biomethane Production: 500 Nm$^3$/h
- Biomethane Usage: Biomethane for gas-grid injection