



# Bright Renewables

Ivan Derkink

[WWW.BRIGHT-RENEWABLES.COM](http://WWW.BRIGHT-RENEWABLES.COM)

# Company information

Bright Renewables

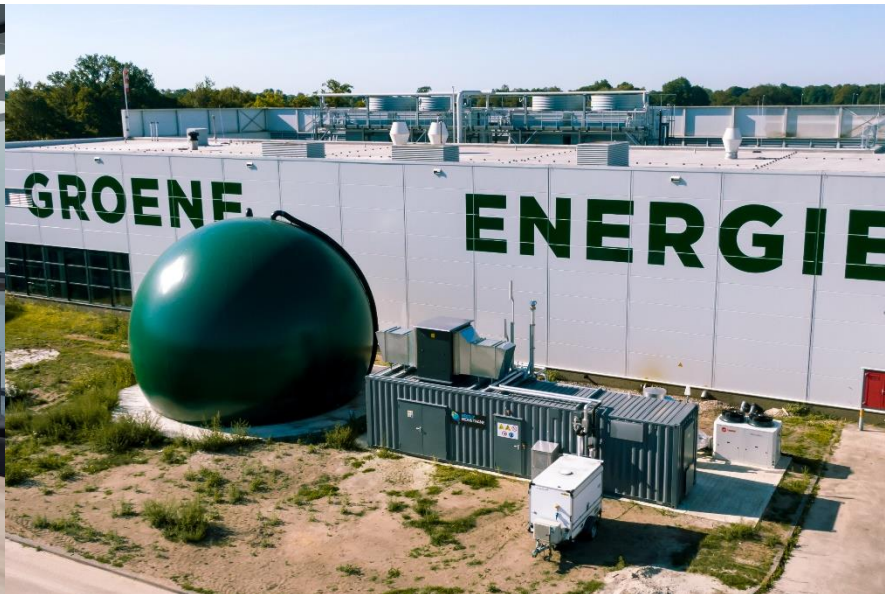
A photograph of a brick building with large windows. The words "BRIGHT BIOMETHANE" are mounted on the building in large, blue, three-dimensional letters. The "BRIGHT" part is in a lighter blue, and "BIOMETHANE" is in a darker blue. To the left of the text is a colorful, multi-colored logo that resembles a stylized flame or leaf.

BRIGHT  
BIOMETHANE

# The upgrade for a “bright” future



**Over 200 employees in 2024 (>550 in the group)**



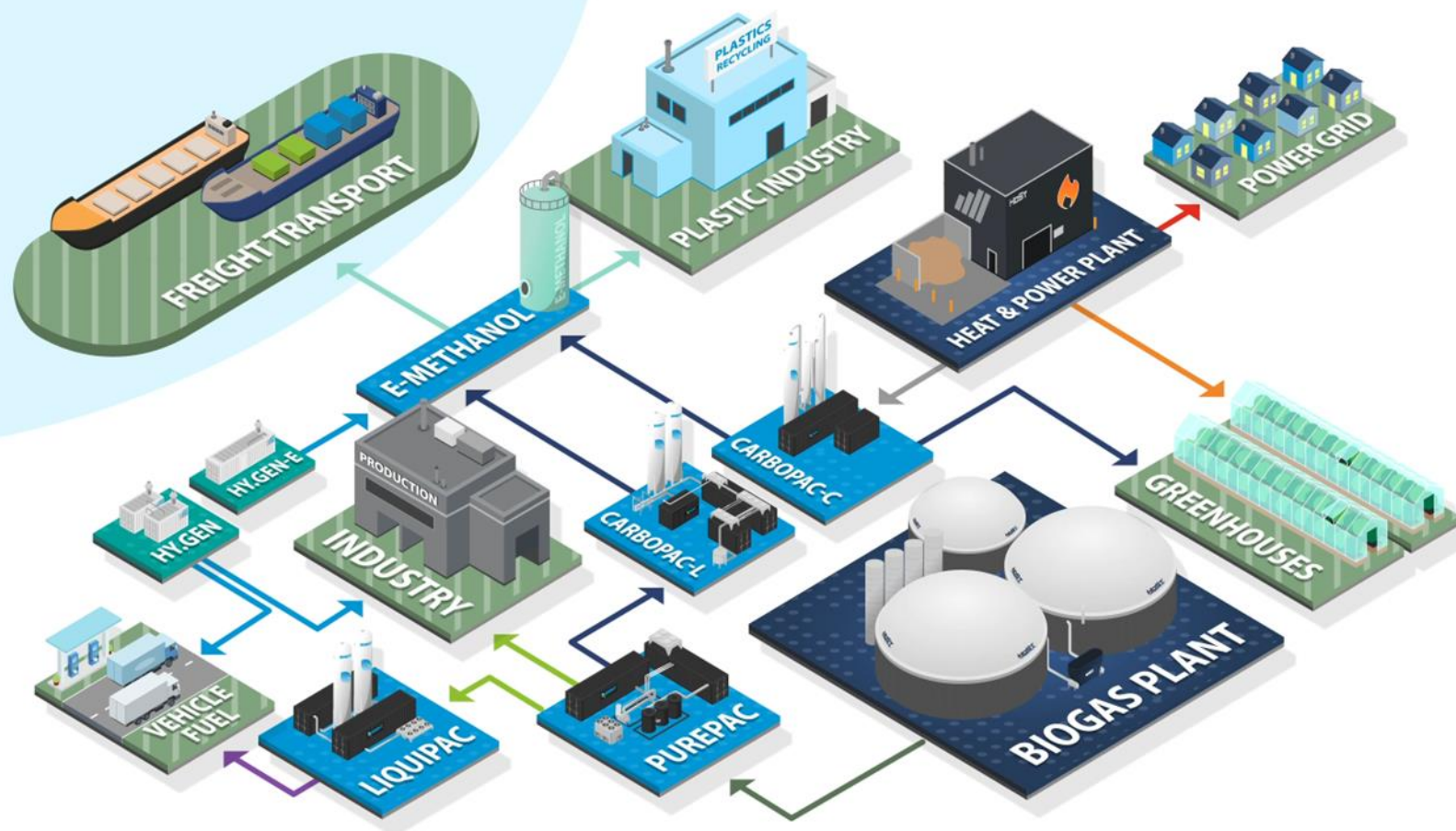
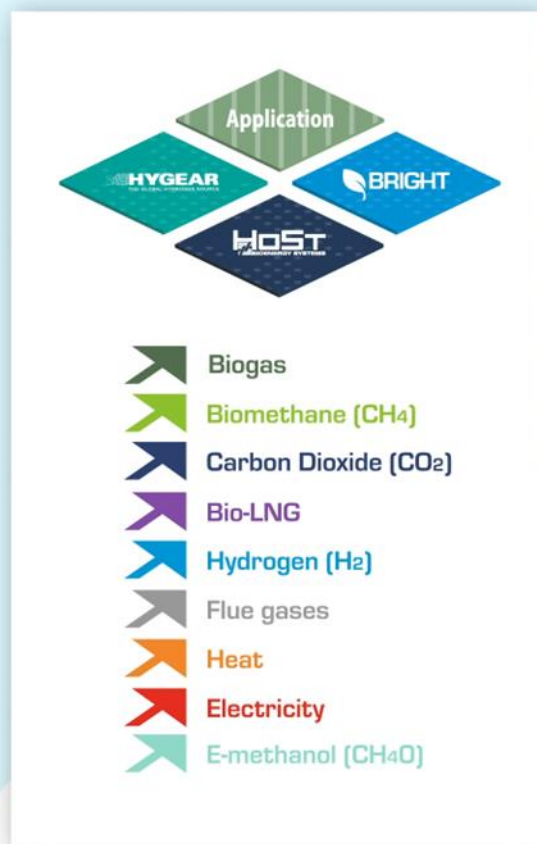
**Approximately 250 systems worldwide**



**Headquarters in Enschede (NL).  
Offices in France, Latvia, USA**

# Energy Infrastructure infographic

HoSt Group

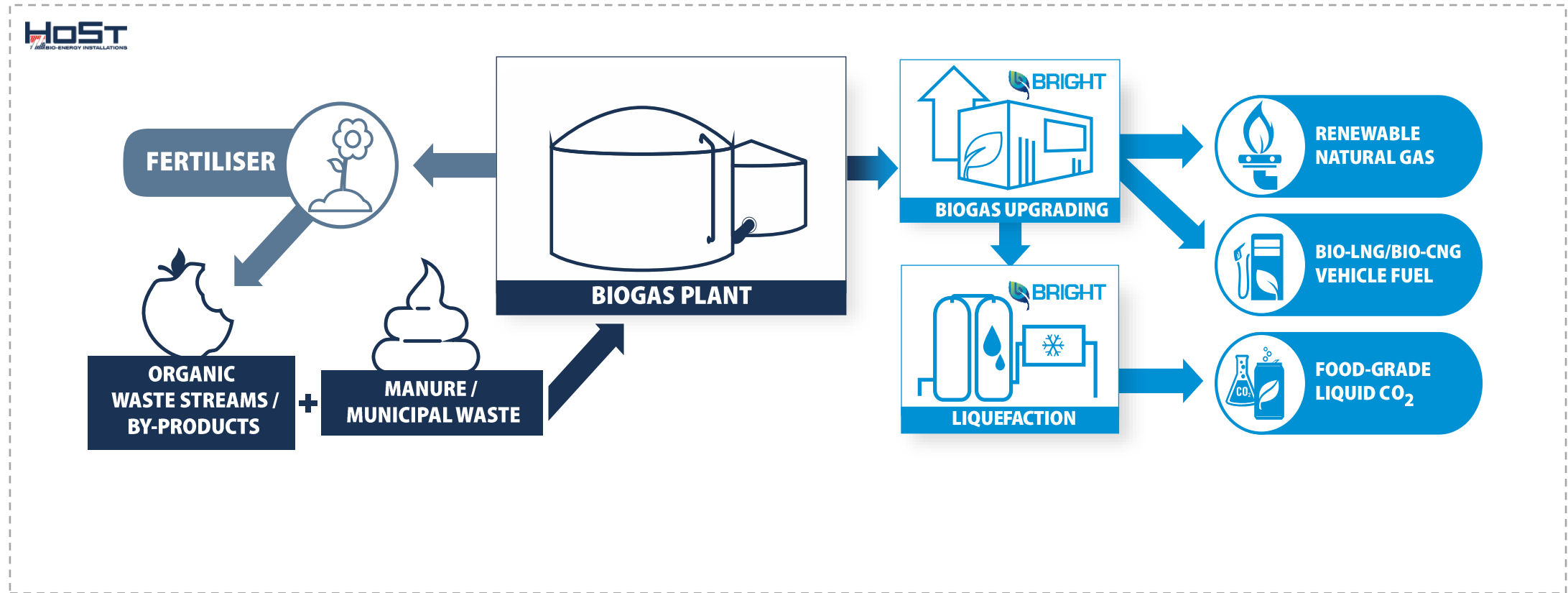


# Bright CCUS

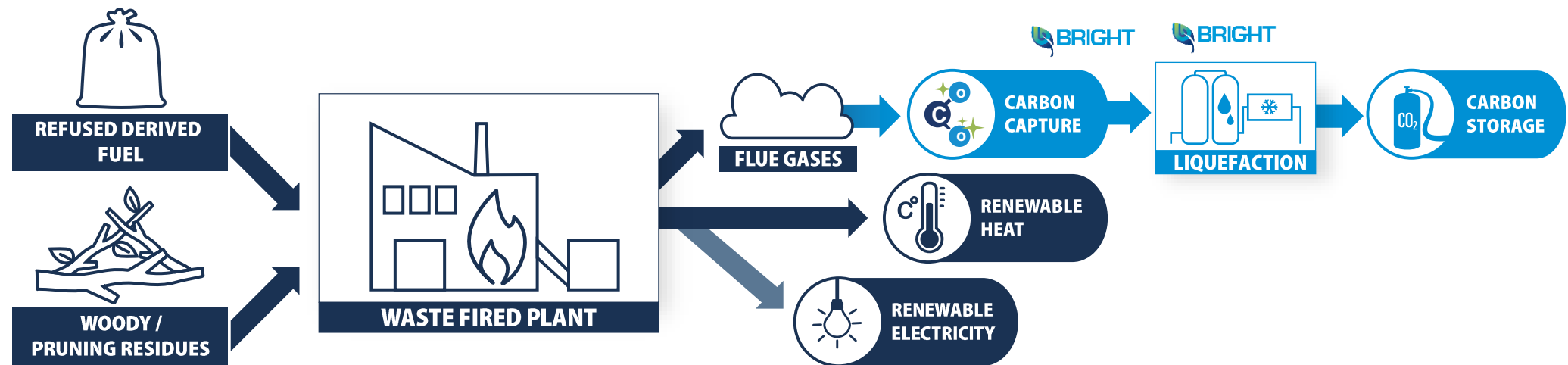
Carbon capture and CO<sub>2</sub> liquefaction



# Biogas-to-X



# Fluegas-to-CO<sub>2</sub>



# CASE STUDY – Tilburg, The Netherlands

## UPGRADING UNIT

|                        |                         |
|------------------------|-------------------------|
| <b>FLOWRATE BIOGAS</b> | 1400 Nm <sup>3</sup> /h |
| <b>RECOVERY RATE</b>   | 100% (99.5% only upg)   |
| <b>BIOGAS SOURCE</b>   | Waste Water Treatment   |
| <b>BUSINESS CASE</b>   | PurePac Grand           |

## CO<sub>2</sub> LIQUEFACTION UNIT

|                                |                           |
|--------------------------------|---------------------------|
| <b>FLOWRATE CO<sub>2</sub></b> | 1200 Kg/h CO <sub>2</sub> |
| <b>CO<sub>2</sub> PURITY</b>   | 99.9%                     |
| <b>REFRIGERANT</b>             | R744 (CO <sub>2</sub> )   |
| <b>BUSINESS CASE</b>           | SDE++                     |



# CASE STUDY – Linköping, Sweden

## UPGRADING UNIT

**Upgrader type**

Amine

## CO<sub>2</sub> LIQUEFACTION UNIT

**FLOWRATE CO<sub>2</sub>**

2500 Kg/h CO<sub>2</sub>

**CO<sub>2</sub> PURITY**

99.9% foodgrade

**REFRIGERANT**

R744 (CO<sub>2</sub>)

**BUSINESS CASE**

Sales of food grade CO<sub>2</sub>



# CASE STUDY – Dornbirn, Austria

## CARBON CAPTURE UNIT

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| <b>FLOWRATE FLUE GAS</b> | 2500 Nm <sup>3</sup> /h                           |
| <b>RECOVERY RATE</b>     | 80%                                               |
| <b>FLUE GAS SOURCE</b>   | Woodchip gasifier with internal combustion engine |
| <b>MODEL</b>             | Carbopac-C mini                                   |

## CO<sub>2</sub> LIQUEFACTION UNIT

|                                |                                     |
|--------------------------------|-------------------------------------|
| <b>FLOWRATE CO<sub>2</sub></b> | 600 Kg/h CO <sub>2</sub>            |
| <b>CO<sub>2</sub> PURITY</b>   | 99.9% food grade                    |
| <b>REFRIGERANT</b>             | R744 (CO <sub>2</sub> )             |
| <b>BUSINESS CASE</b>           | Sales of food grade CO <sub>2</sub> |





**BRIGHT RENEWABLES**

Thermen 10

7521 PS Enschede

The Netherlands

Tel: +31 53 460 90 88

[info@bright-renewables.com](mailto:info@bright-renewables.com)

[www.bright-renewables.com](http://www.bright-renewables.com)

