

# World's first large scale BTL-facility Σ1 Schwedt, Germany

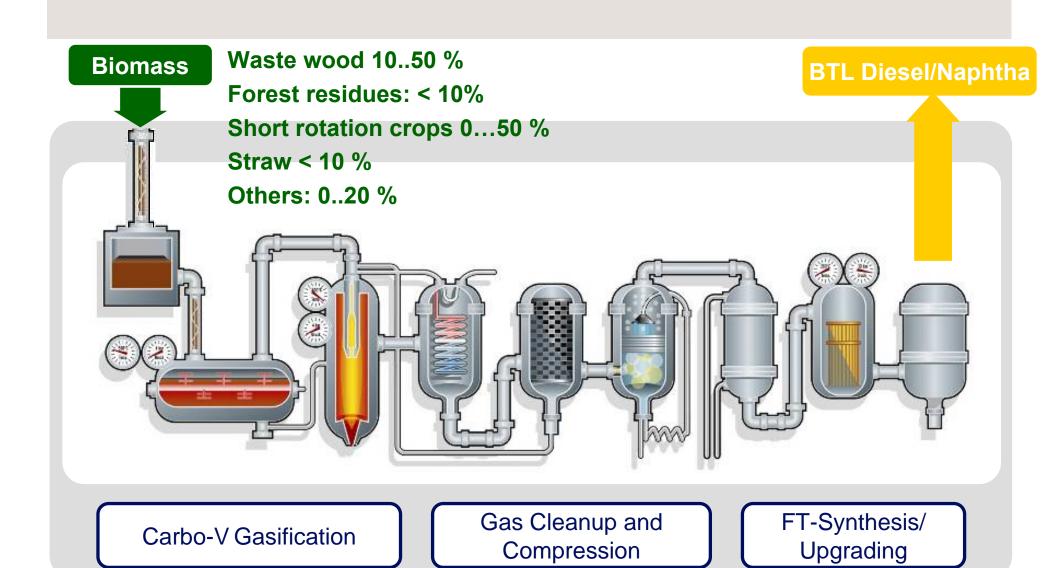
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# BTL Value chain – conversion technology CHOREN





#### From Pilot to Demonstration





#### **CHOREN Beta Plant Freiberg/D:**

- > 45 MW thermal
- > 68,000 t/a feedstock
- > 18.0 million I BTL

#### Challenges on the pathway to Σ:

- ▶ Implementation of 50,000 ha of short rotation crops (SRC)
- Effective biomass drying
- Scale up Carbo-V gasifier by x 1.3... 4
- O Process optimization and demonstration of the integration of various mature process units
  - > 100 process options evaluated
  - > 110 process unit
    - Constructability
    - Operateability
    - Safety
    - Reliability
- Financing/risk share

## **Σ** Demonstration plant Schwedt



**640 MW**<sub>th</sub> 1,000,000 t/a bio-mass 200,000 t/a BTL ΔCO2: - 650,000 t/a 32 ha factory premises CHOREN Investment: > 800 million €

## **Partners & Sustainability**



All partners who are ready to share project risks are welcome

- Feedstock supply
- Construction
- Financing

#### **Sustainability**

- ◆ Wheel to Wheel LCA will be performed in parallel to the engineering phase to confirm the GHG-reduction > 80 % compared to fossil fuel
- Apart from waste wood, short rotation crops (SRC) will take a major position because of their lower environmental impact compared to other agricultural products.
- SRC implementation will be reviewed by agricultural and environmental experts





C = Carbon

H = Hydrogen

O = Oxygen

REN = Renewable

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