

# Energy from Waste



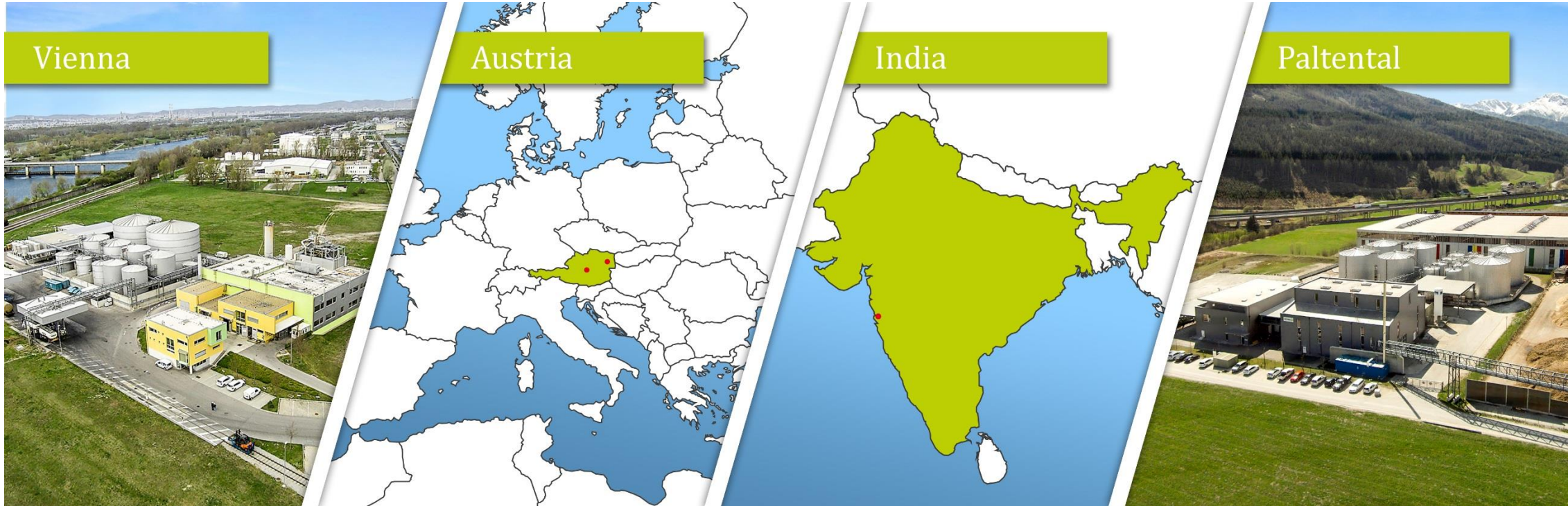
## Used Cooking Oil Sourcing from an European Perspective

Growing Demand, Changing Legislation, Challenging Certification



# Münzer Bioindustrie GmbH

One Name – One Family – One Company



## Münzer Bioindustrie GmbH

The largest disposal company for **Used Cooking Oil (UCO)** in **Central Europe**, with more than 26 years of environmental consulting experience.

## National wide Collection System

We are serving **more than 7,000 partners** from the Foodservice Industry like Hotels and Restaurants, Catering businesses and Franchise companies.

We are collecting from **households** using 3l buckets

## Muenzer Bharat Pvt. Ltd.

The Indian government has mandated us to start with a **collection system** for Used Cooking Oil (UCO) for the purpose of **generating Energy**.

- No definition of UCO as waste
- No definition on oil alteration
- Reuse in the food chain – Gutter Oil

## Münzer Bioindustrie GmbH

Supplying more than **200.000mt** per year to large mineral oil companies to fulfill their **blending targets**.



# Münzer Bioindustrie GmbH

Sustainable cooperation - Partnership

5

We calculate the **greenhouse gas emission reduction** according to international standards resulting out of this closed circular strategy and provide these as a **certification for McDonald's**.



After the deep-frying-process in the restaurants the **UCO is stored in customized containers**.  
This guarantees a **hygienic and safe** disposal adapted to the everyday work.

1



V.S.

4

This biodiesel is then sold to the central **logistics partner of McDonald's Austria**, HAVI Logistics, who is in Austria exclusively using **biodiesel** produced by Münzer Bioindustrie **in their fleet**.



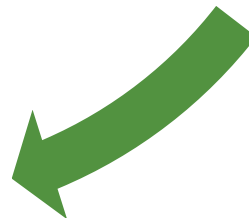
UCO is **frequently collected by Münzer Bioindustrie**.  
We **remunerate** the value of the waste.

2



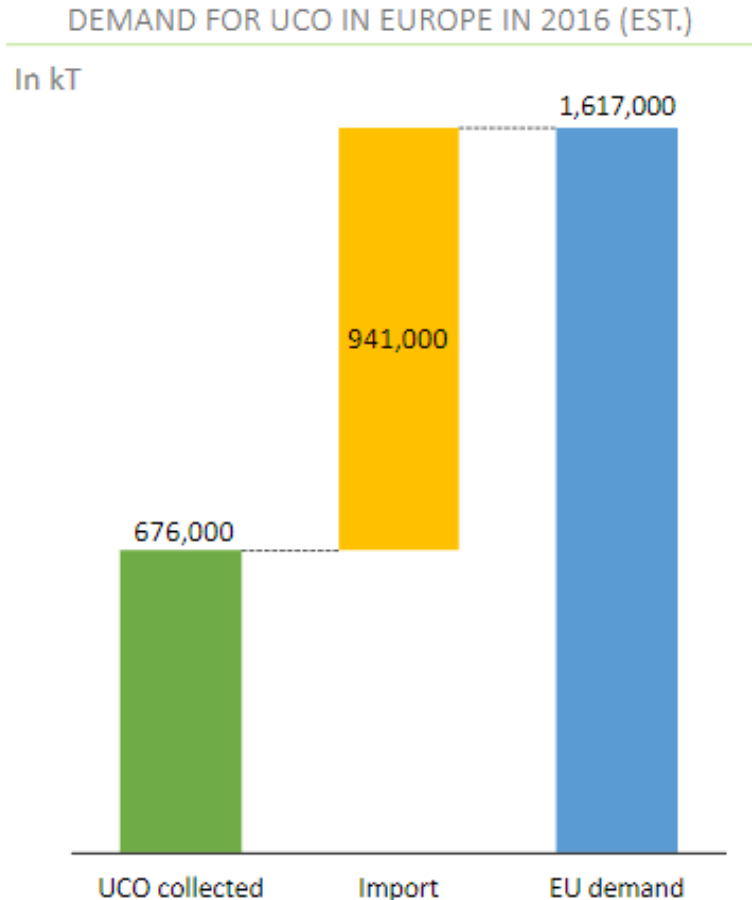
3

The UCO collected the **main raw material** in our production facilities to **produce sustainable and certified biodiesel**.



# Münzer Bioindustrie GmbH

Growing Demand / Growing Supply? in Europe



Source: Greenea Presentation at Argus Conference

## Driving Demand

- **Palm oil** is seen as bad feedstock
- Overall biofuel blending targets rise – **RED2**
- **HVO** - CoProcessing production to overcome **blending wall**
- Limited availability of **animal fat category 1** as substitute to UCO

## Supply Side

- Other continents to implement **waste based subsidies**
- Innovative collection e.g. **households**
- Definition of Waste and Residue (**PFAD** – Italy/Norway)

# Münzer Bioindustrie GmbH

Import challenges as Central Europe based biodiesel producer



## Why should you nevertheless export to Austria?

- Long term partnerships developed with European UCO sellers
- Buying UCO the whole year long
  - two biodiesel factories in EU
- Münzer is final processor for the UCO
- Münzer has knowledge about UCO collection
- No logistics for FAME – price competitive in feedstock
- 11 years producing – no bankruptcy
- Credit Rating – Security in payments

# Energy from waste

Contribution to a sustainable living

## Christian Dyczek

Authorized Manager  
Board member ISCC association - Sustainability

Austria

Ölhafen Lobau - Uferstraße 12  
1220 Wien, Austria

Mobile: +43 664 813 39 79  
Web: [www.muenzer.at](http://www.muenzer.at)  
Email: [christian.dyczek@muenzer.at](mailto:christian.dyczek@muenzer.at)  
ICE IM: cdycek  
Skype/WeChat: christiandyczek

## Christian Dyczek

Director

India

### Registered Office

Regus Kaledonia, Unit 1B, 5th Floor,  
Sahar Road, Off Western Express Highway,  
Andheri (East), Mumbai - 400069, India  
CIN No: U74999MH2016FTC285581

