

„Waste-to-Methanol“ - WTM

Sustainable waste management

BASURA Technologies

Technologieproviders & Consortial-Partners:

Siemens Schweiz AG
Industry & Energy Sector

Lurgi GmbH Frankfurt
Rectisol® & Methanol® Technologies

ProCone GmbH Schweiz
Gasification Systems

AMB GmbH Oschersleben
Anlagen / Maschinen & Bau

Development- & Engineering team:

BENREG Europe GmbH
Waste Management München

Ingenieurbüro Adrian Fürst
Energie- und Umwelttechnik

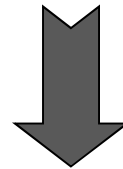
AFAG Engineering GmbH
Waste-Recycling-Systems

West Coast Power Ltd.
Waste-Recycling-Technologies

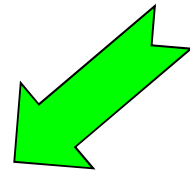
The Basics

BASURA Technologies

Waste



Recycling products



Energy



Fuel production

BASURAload© / BASURAlogistics©



Energy
crops

Sorting and drying

Fuels



Water



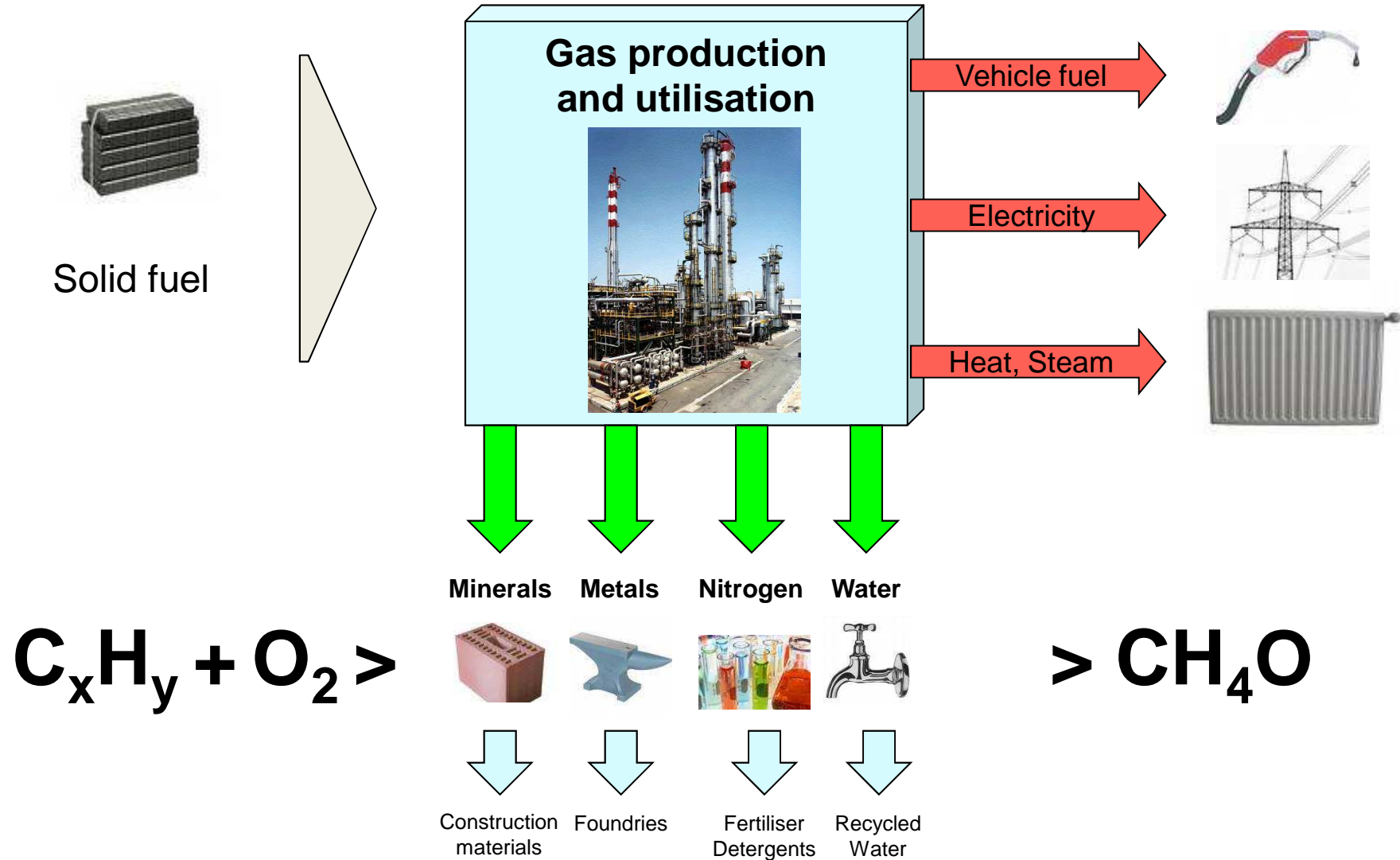
Recyclable
materials



Building
materials

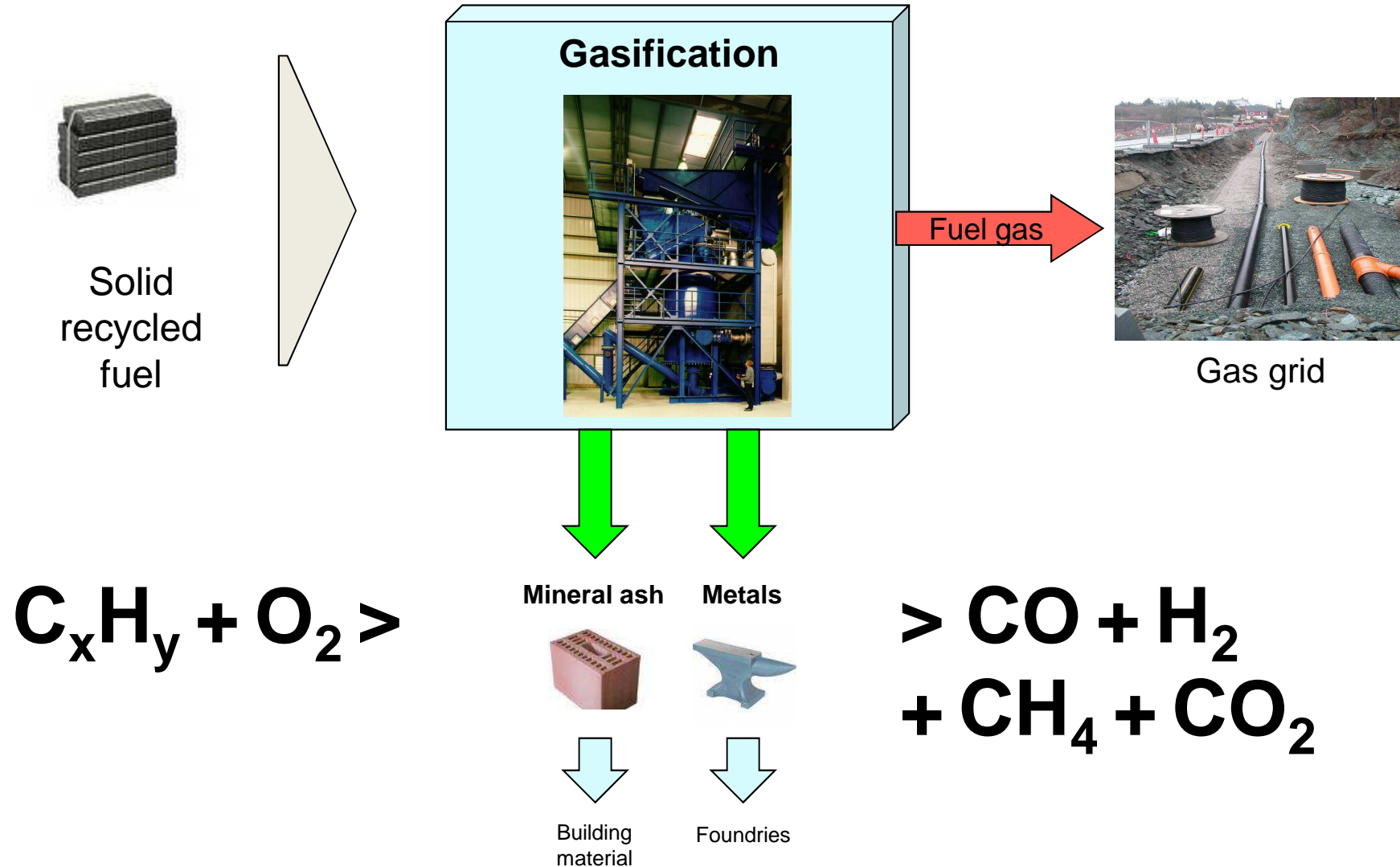
Gas production & use

BASURApplant©



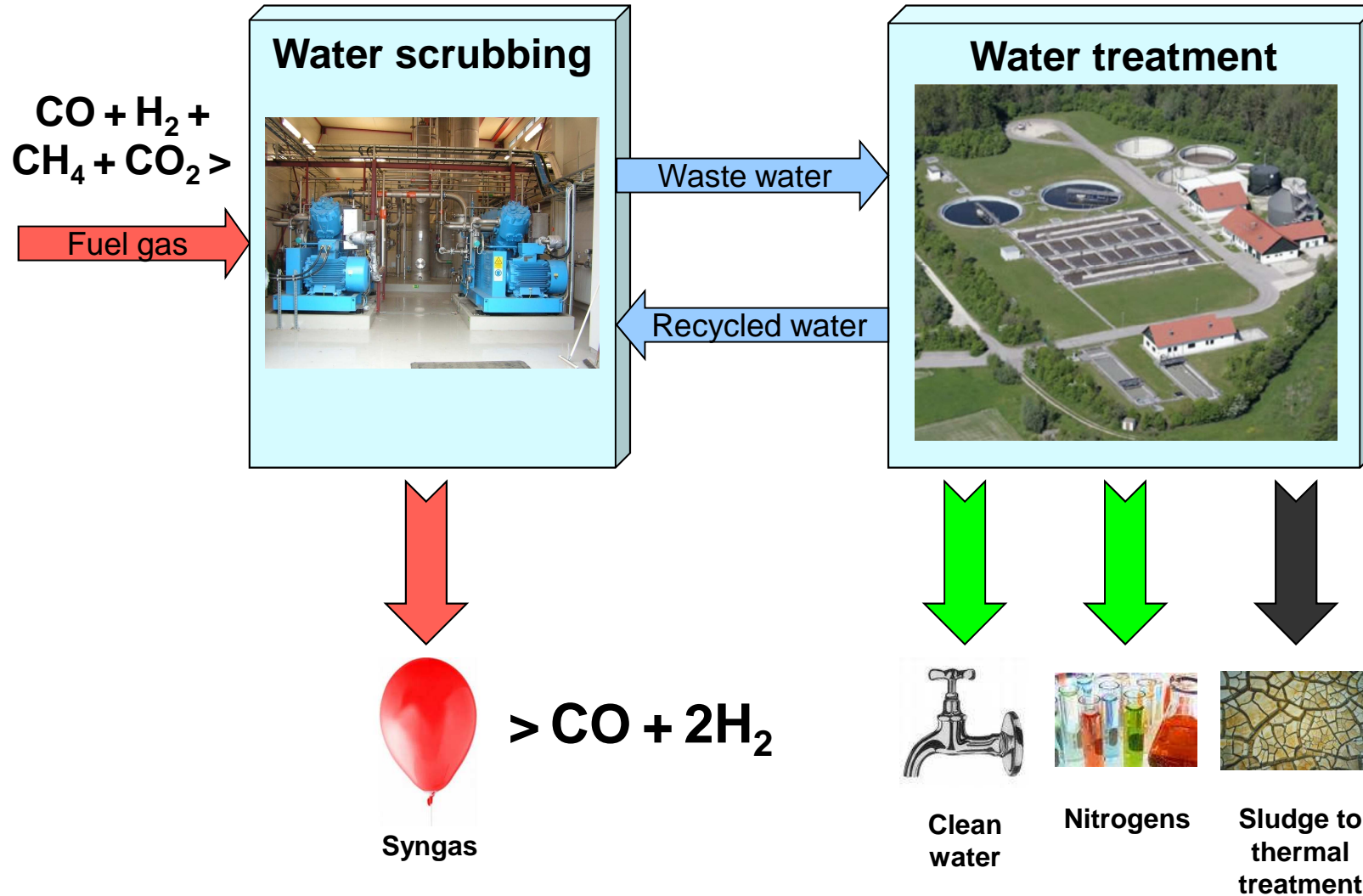
Production of syngas

BASURAgas©



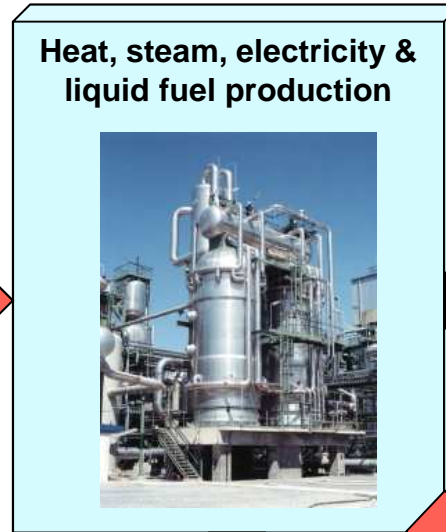
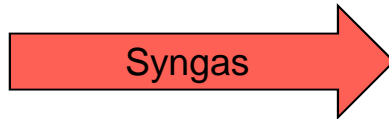
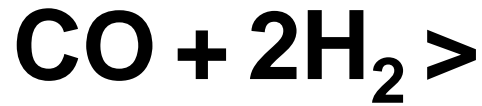
Gas- and water upgrading

BASURAclean© / BASURAwater©



Products from Syngas

BASURApower© / BASURAfuel©



Liquid fuels
MeOH, DME, MTBE

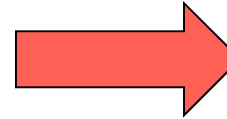


Steam and Heat

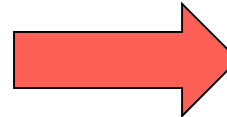


Electricity

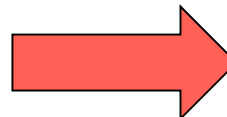
Mass flow BASURApplant©



150 Mio Liter Fuel
(MeOH, DME, MTBE)

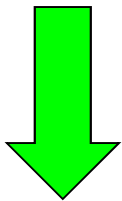


30 MW Electricity
(KKW Gösgen 1'000 MW)

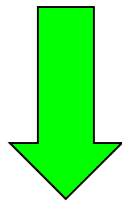


40 MW = 52 tons/h Steam
(Corresponds to the Perlen
pulp & paper factory)

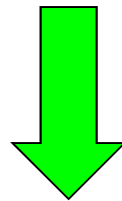
450'000 Tons/Year



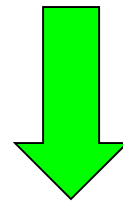
Water
90'000 t/a



Metals
18'000 t/a



Building mat.
90'000 t/a



Fertiliser
450 t/a

The drivers

BASURA Technologies

Economy

- *Only the economic feasibility is a long term driver*

Ecology

- *Only ecological projects will survive in future markets*

Ethics

- *Social and ethic drivers are an integral part of sustainability*