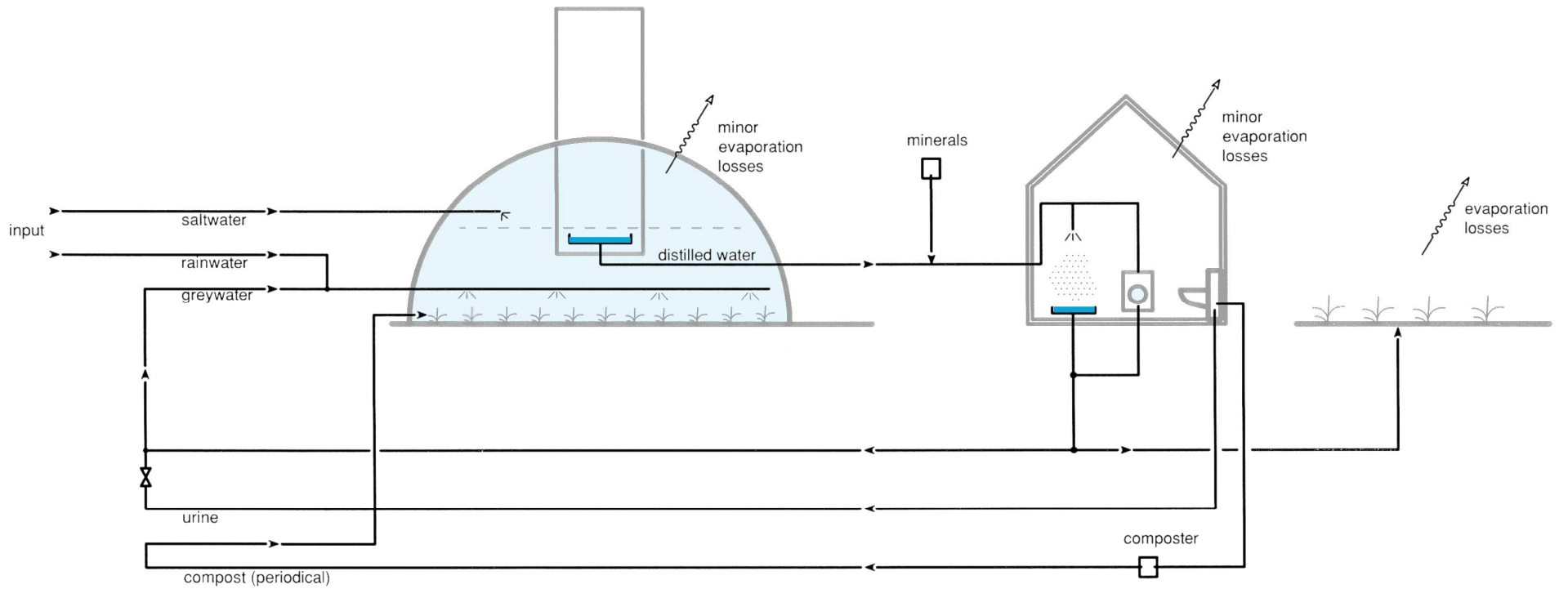
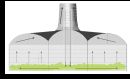
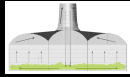
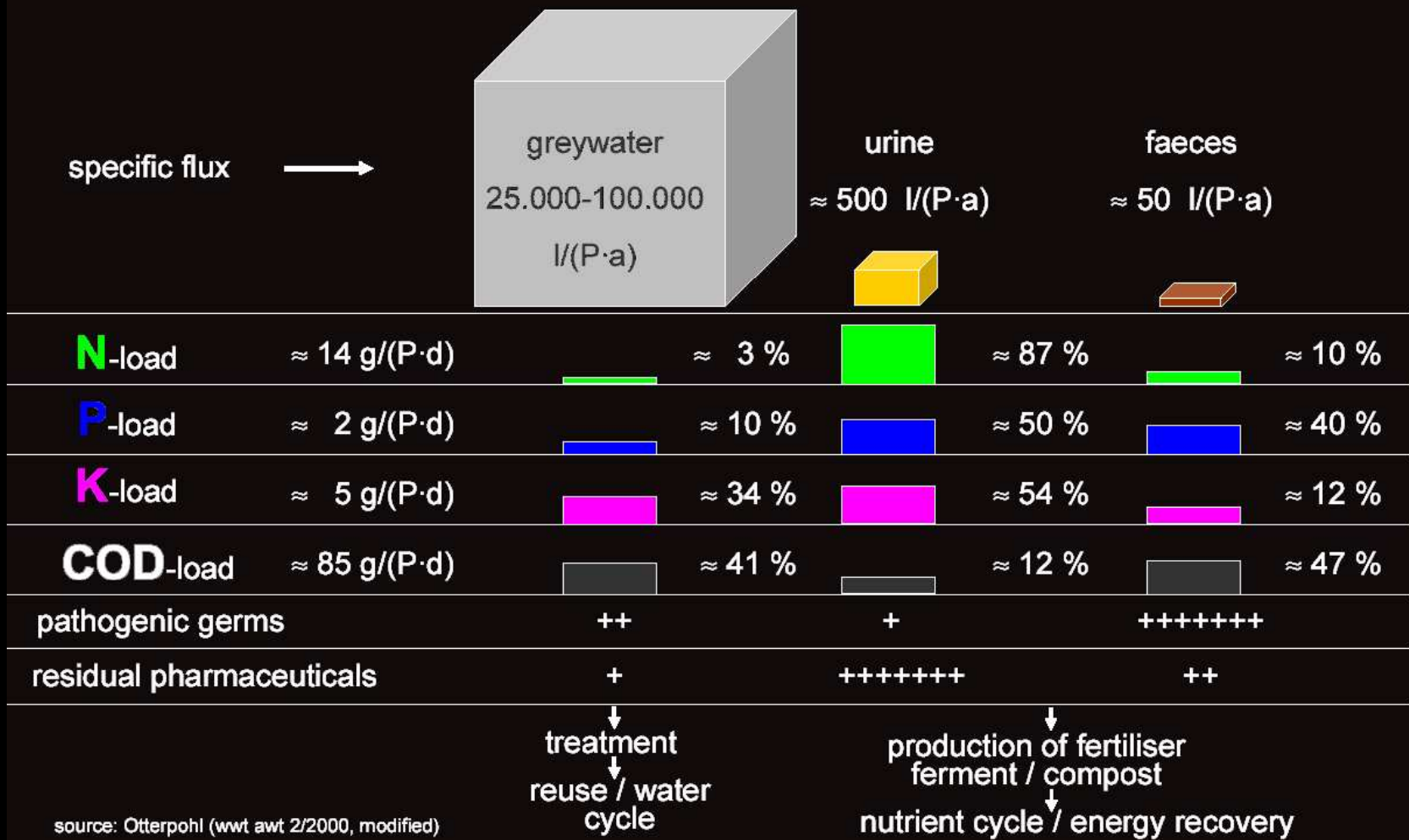


1. Urban Water Cycle and Cycle of Plant Nutrients

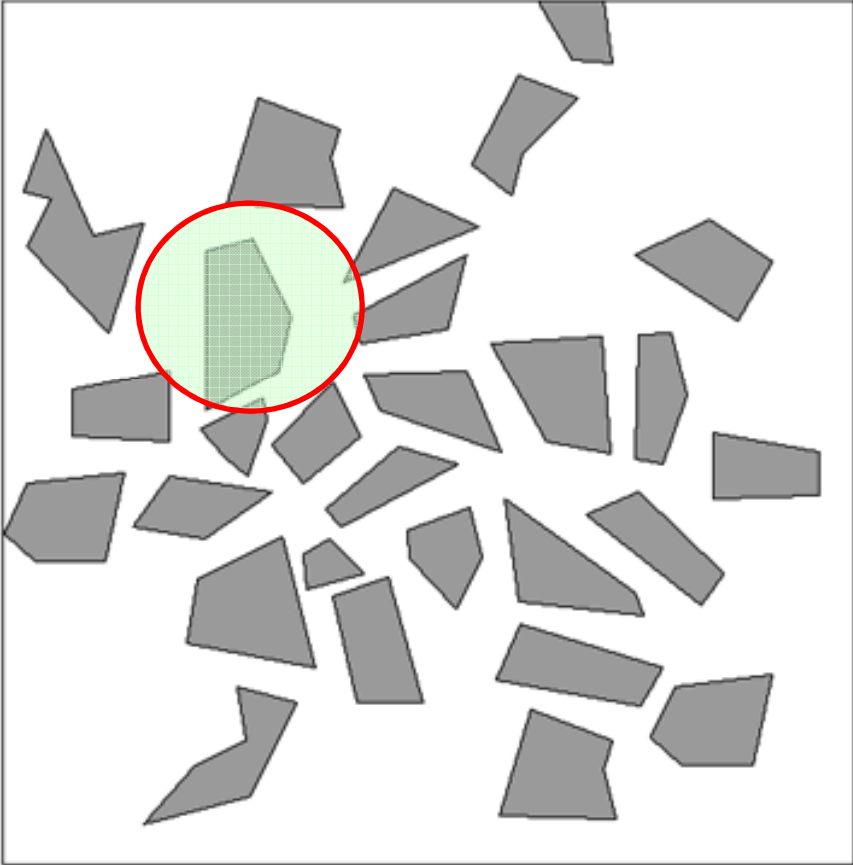
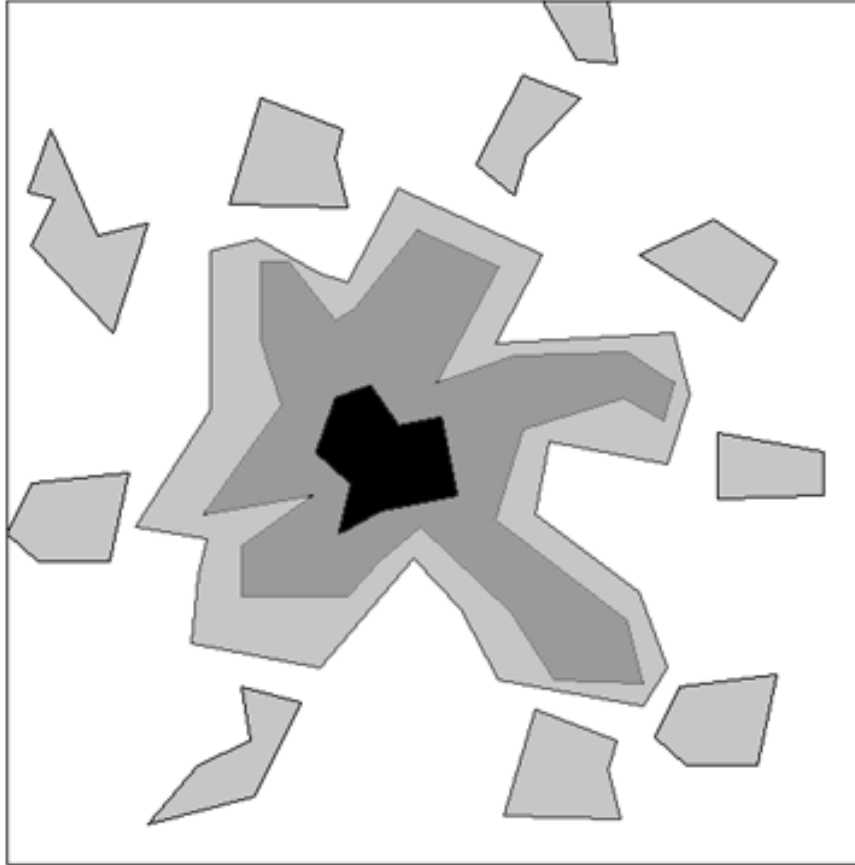


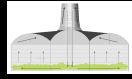


Quality of different wastewater streams

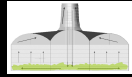


source: Otterpohl (wwt awt 2/2000, modified)





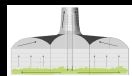
2. Solar Energy capture and dissipation

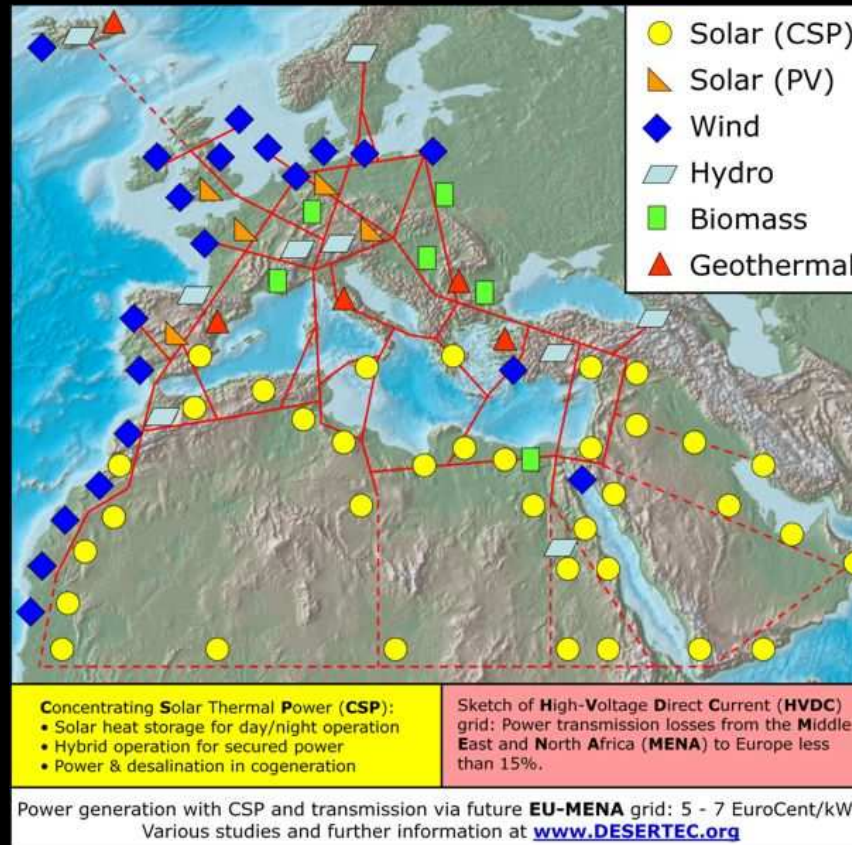
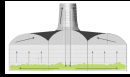


Capture

Cascade of energy transfer

300 - 400 °C	Electricity
80 - 100 °C	Desiccant Cooling
35 - 45°C	Night Heating of Greenhouse Greenhouse as solar Still during night Forward Osmosis Desalination





Trans-Mediterranean Renewable Energy Cooperation (TREC)

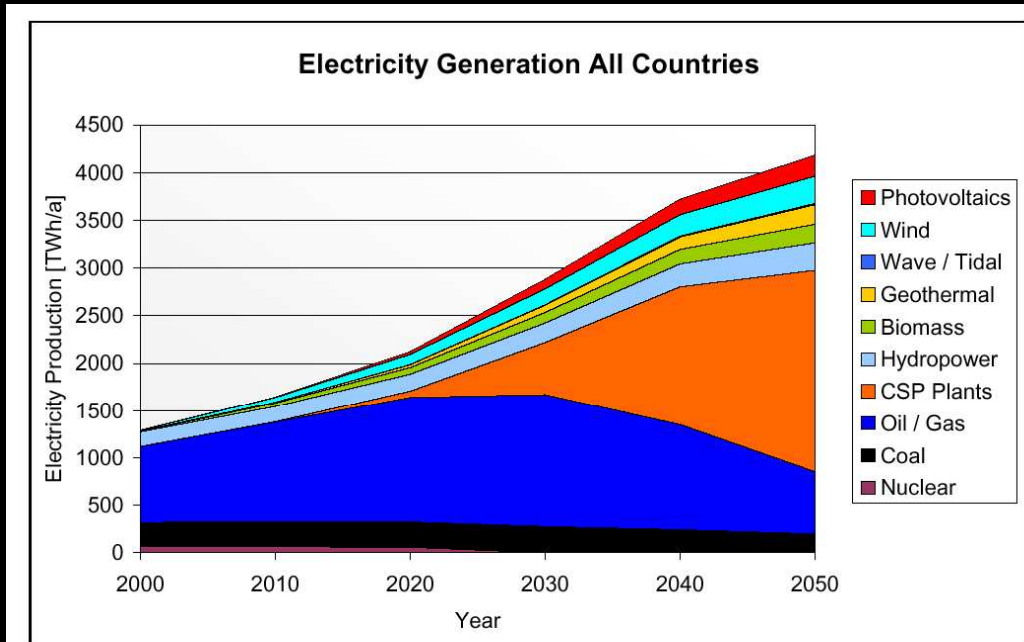
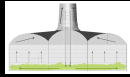
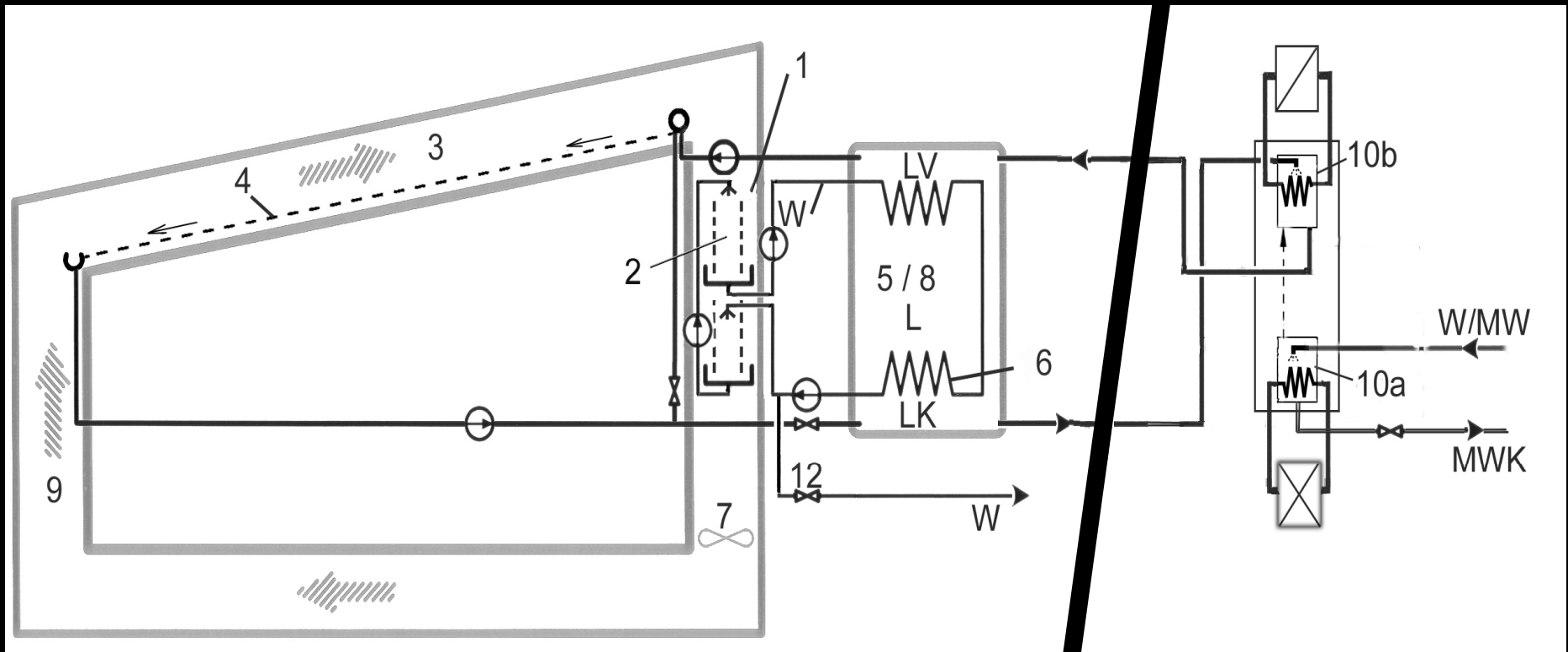


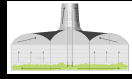
Figure 2: Annual electricity demand and generation within the countries analysed in the MED-CSP scenario



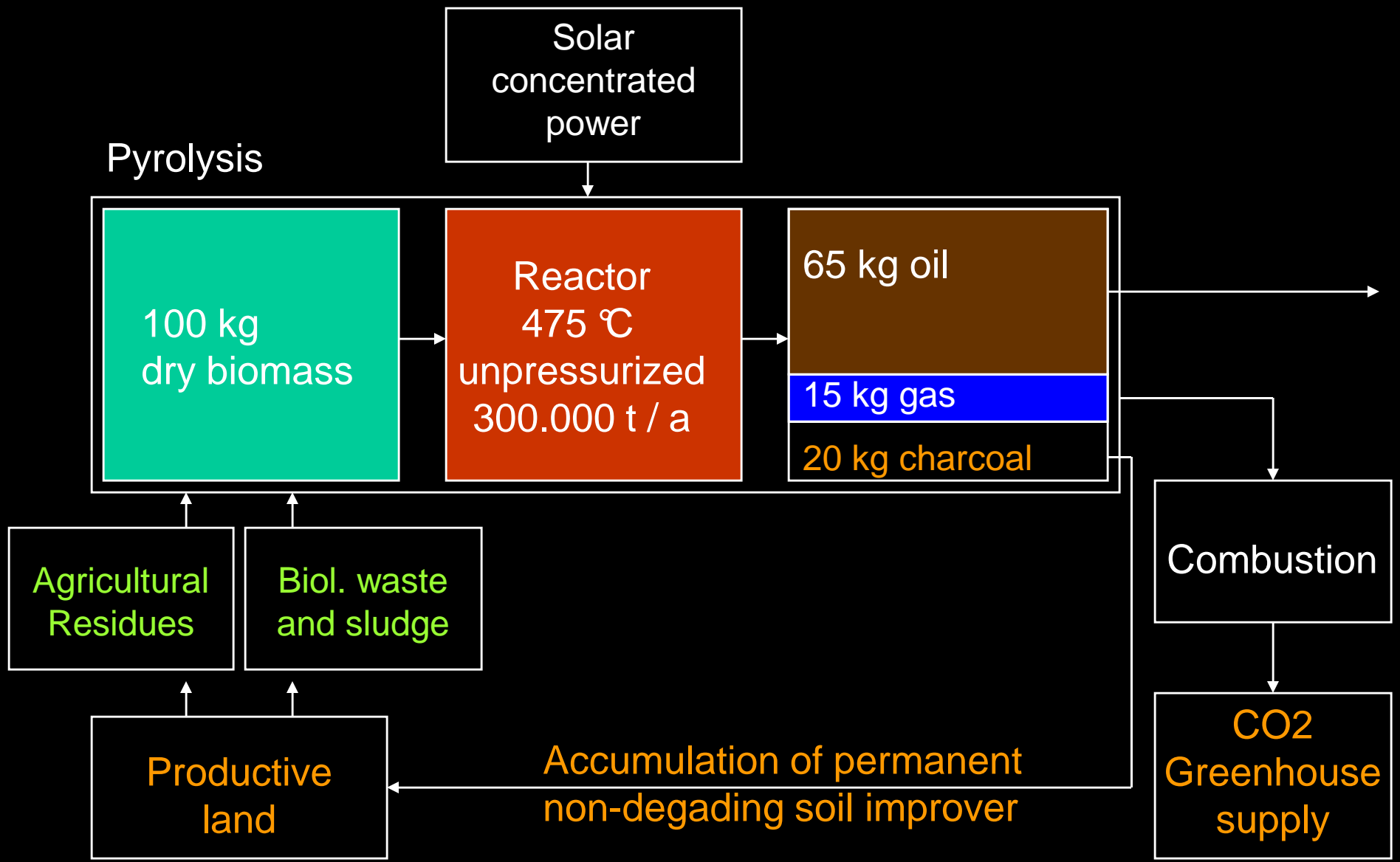
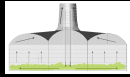
Greenhouse integrated regeneration of desiccants

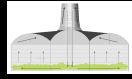
Thermo-chemical energy accumulation

Urban desiccant cooling

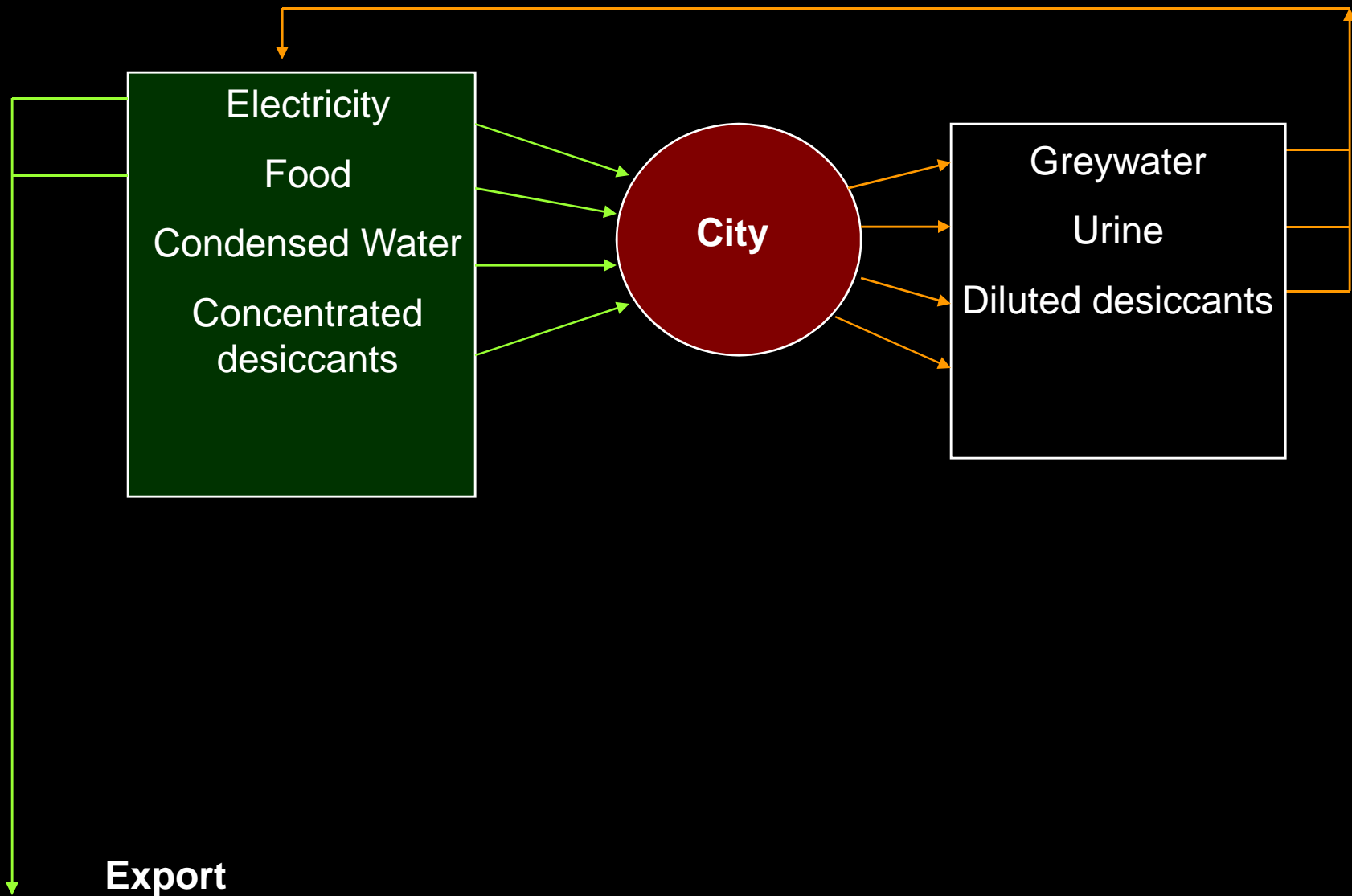
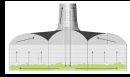


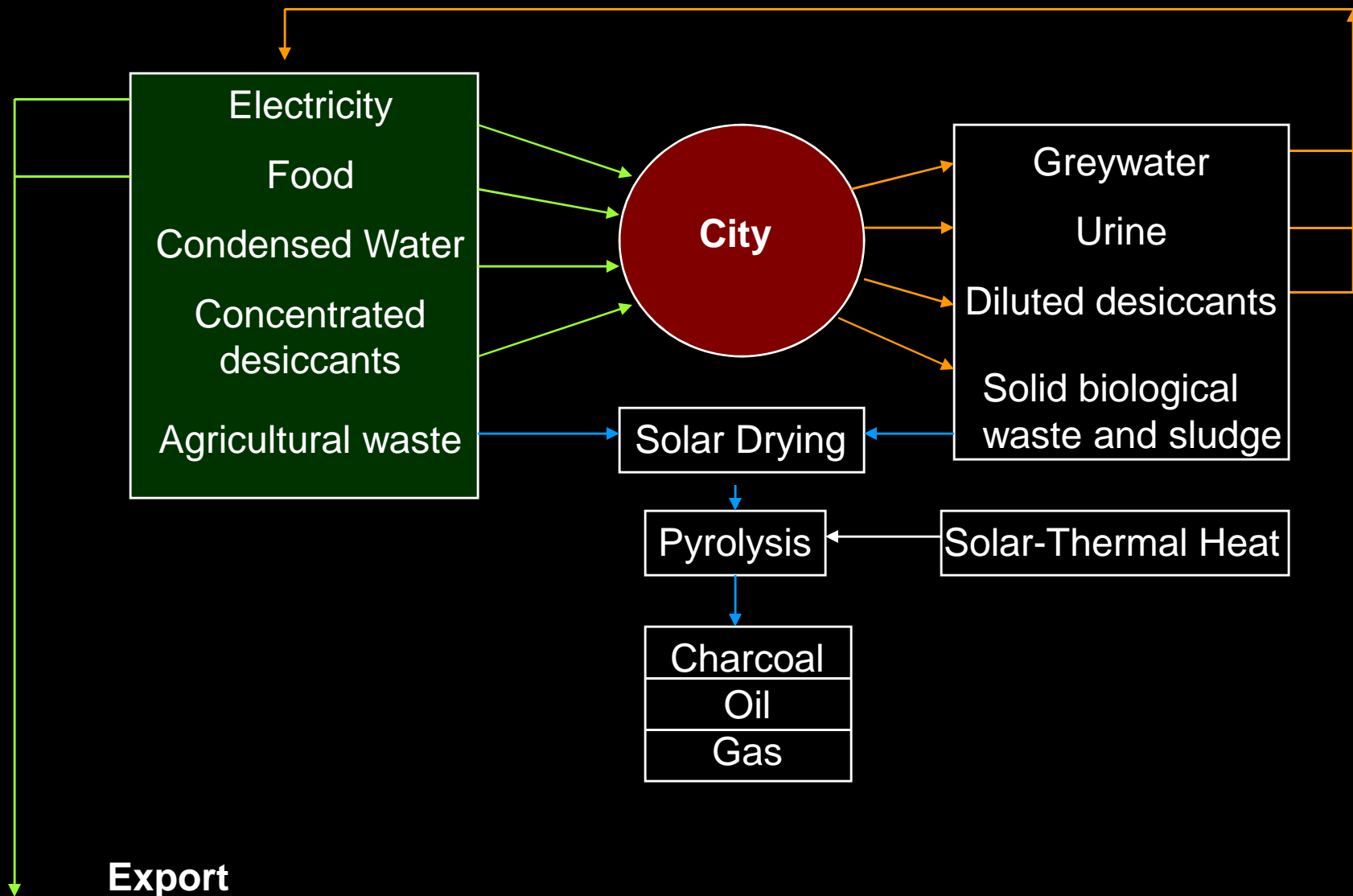
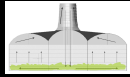
3. Carbon capture and accumulation

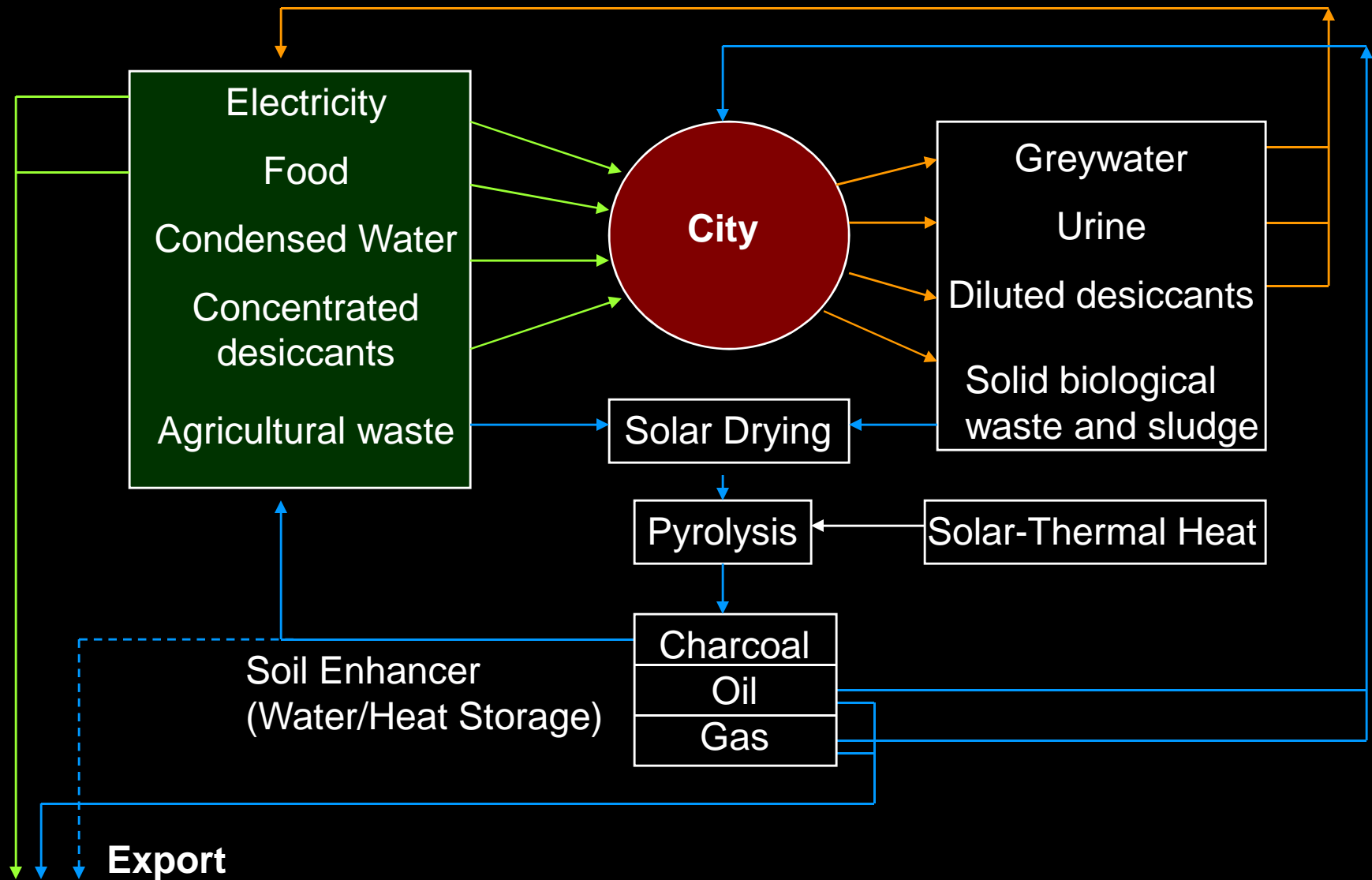
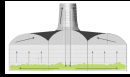


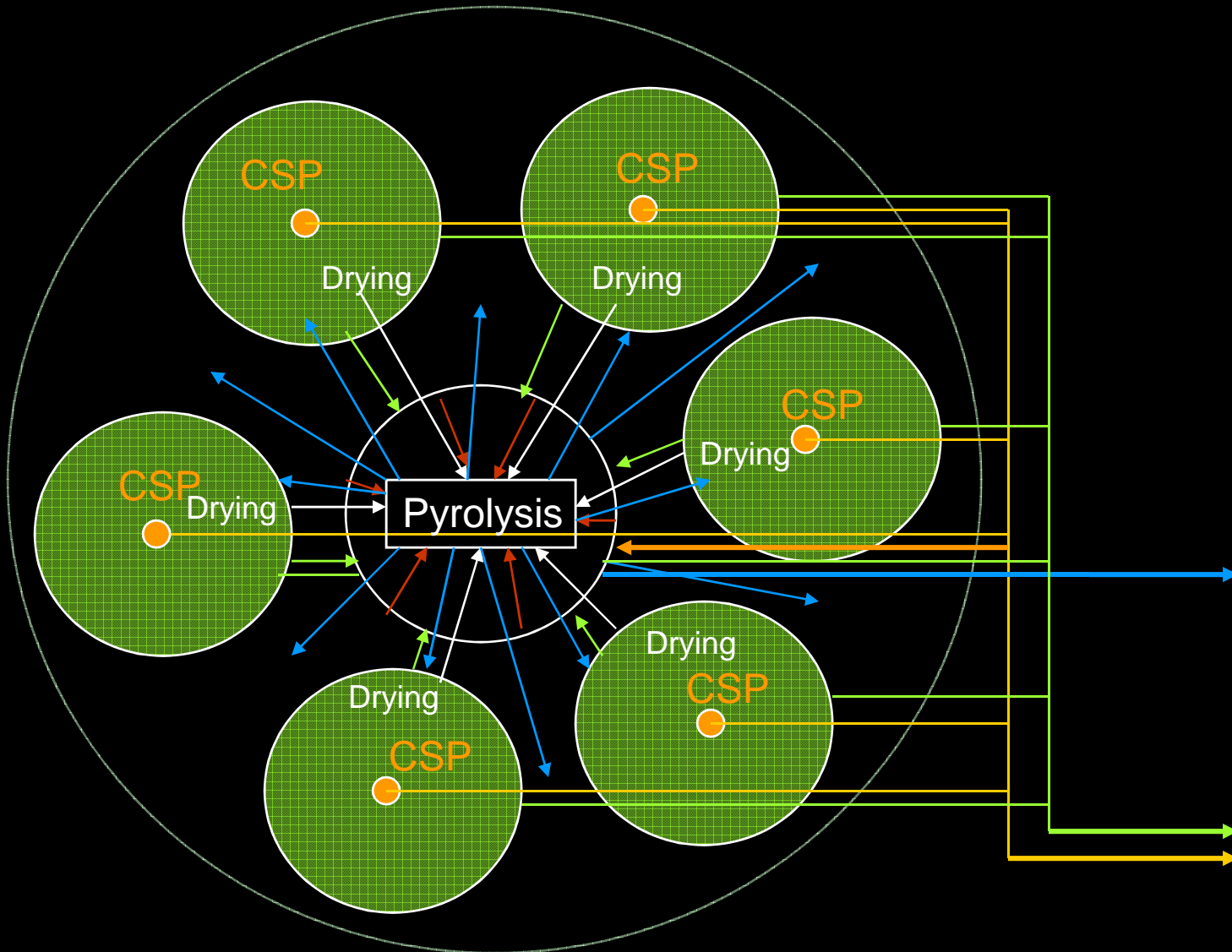
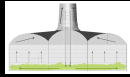


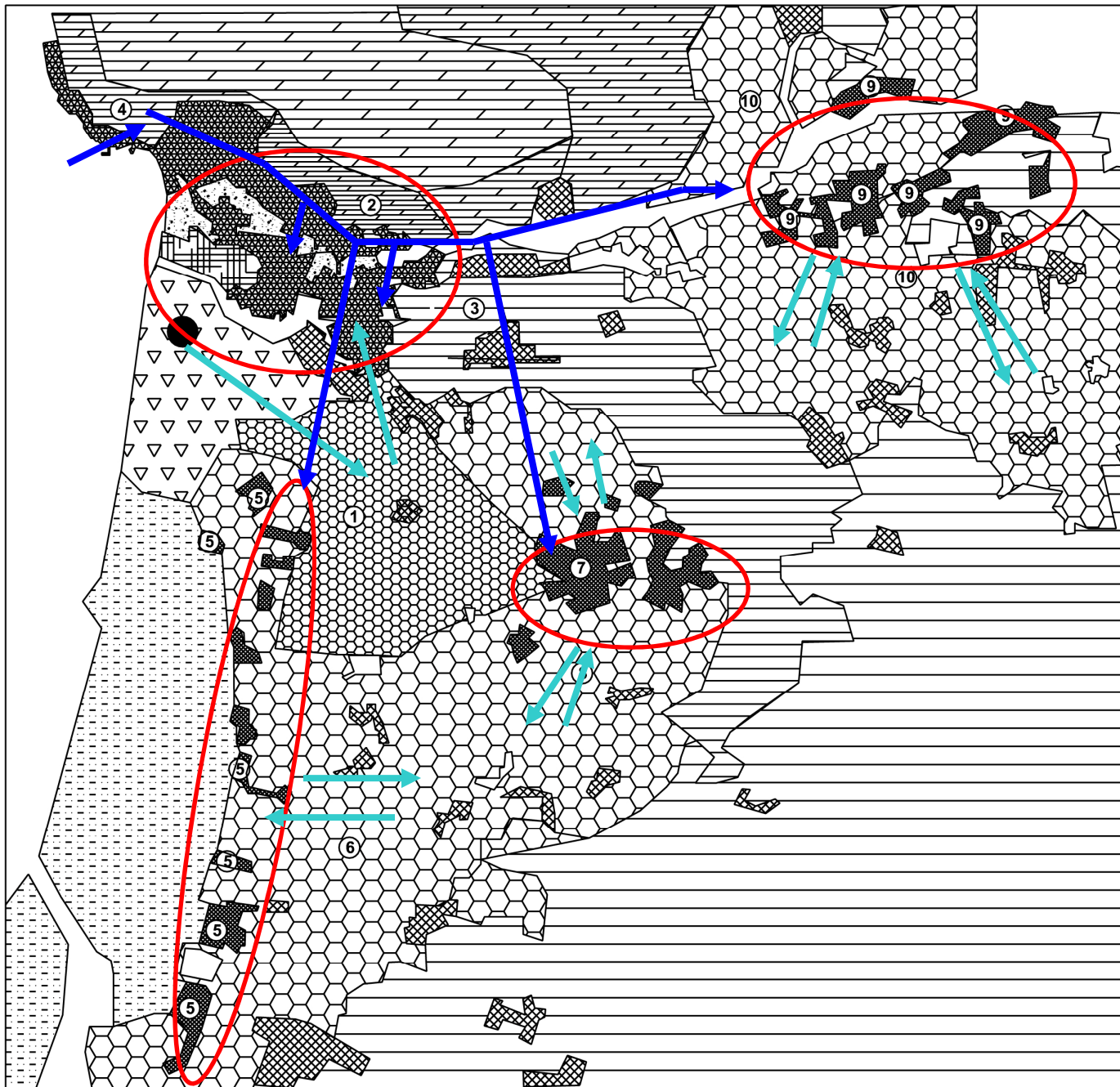
4. Urban Synthesis



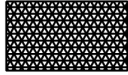
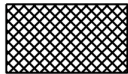


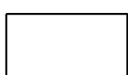
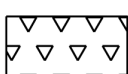




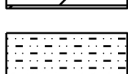
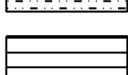
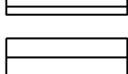




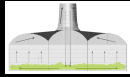




Legend

-  Agadir Urbanisation of high density
-  Villages of low density
-  Villages, proposed to form decentral concentrated sub centers around Agadir
-  Urban green spaces
-  Golf courses
-  Forest with embedded waste treatment facilities
-  Areas of intense agricultural and greenhouse horticultural production
-  Area proposed for greenhouse integrated waste water treatment for Agadir city
-  Mountain slope area proposed for open greenhouse wastewater treatment and solar desalination
-  Cliffland mountain
-  Area for coastal dune protection
-  Natural bushland
-  Arid dryland

Agadir



Thank you

www.Watergy.info

www.Cyclor Support.net

Cyclor Support Implementation Guide
10/2008