

Integrated Palm Oil Production System



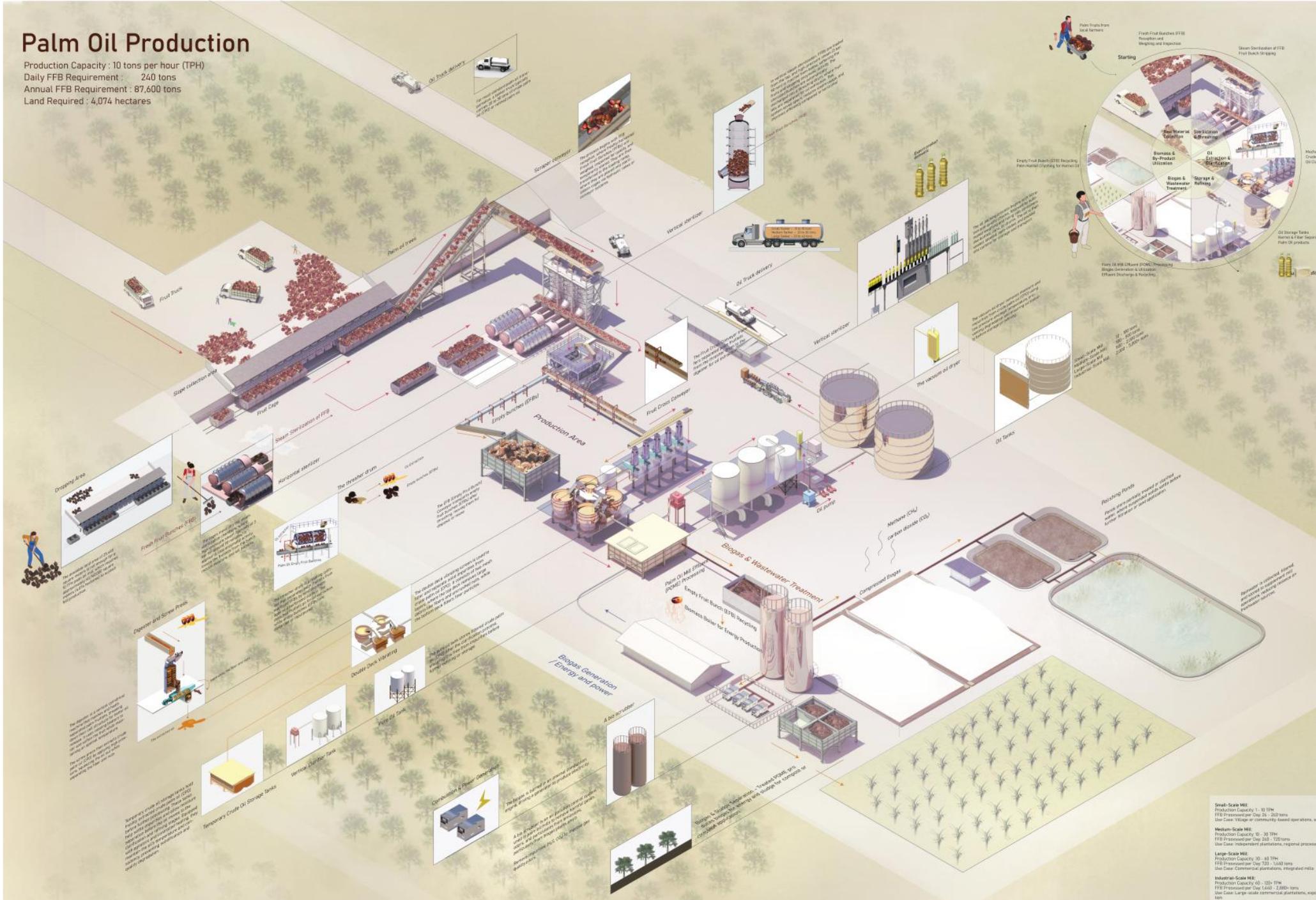
Palm Oil Production

Production Capacity : 10 tons per hour (TPH)

Daily FFB Requirement : 240 tons

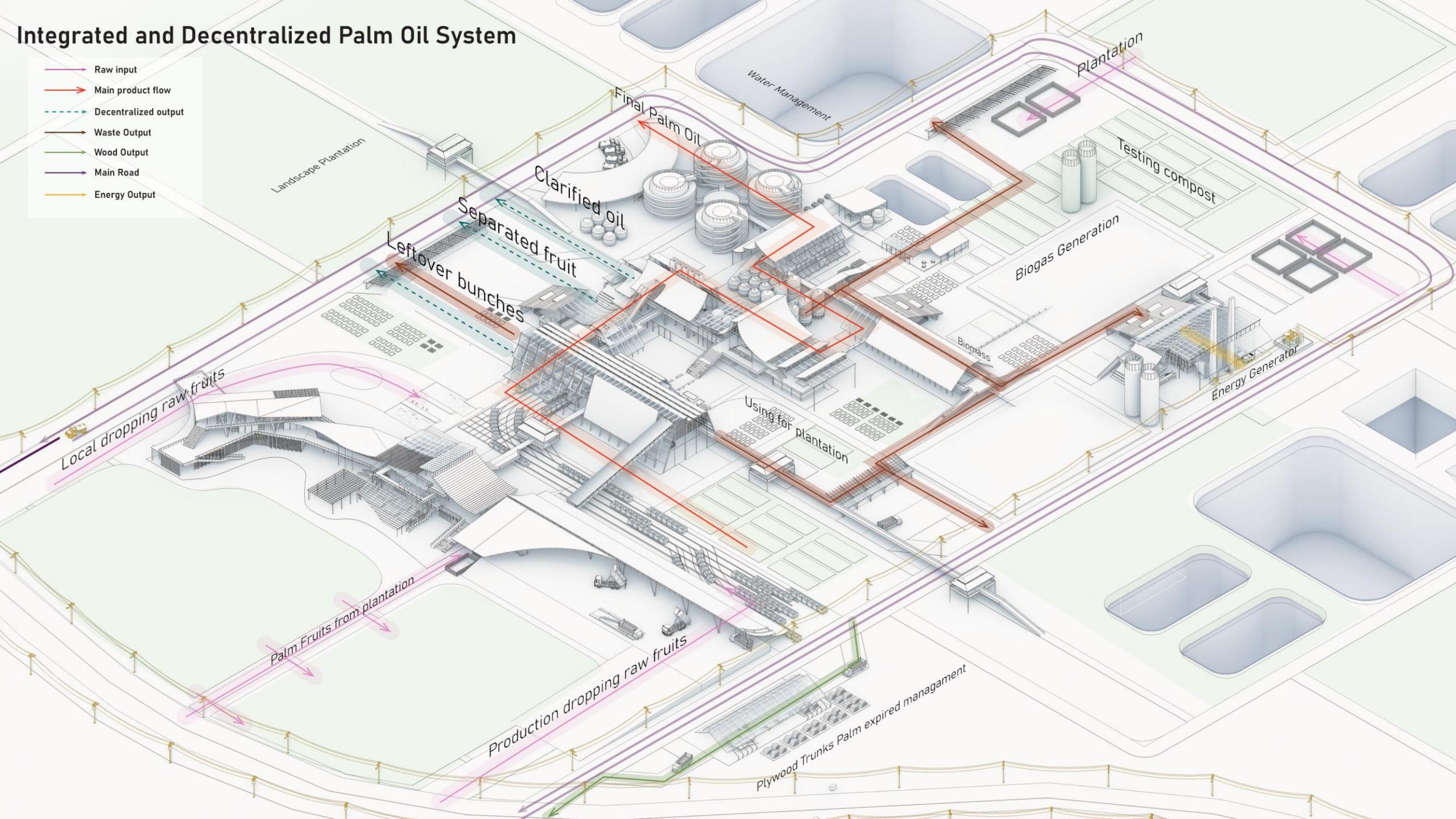
Annual FFB Requirement : 87,600 tons

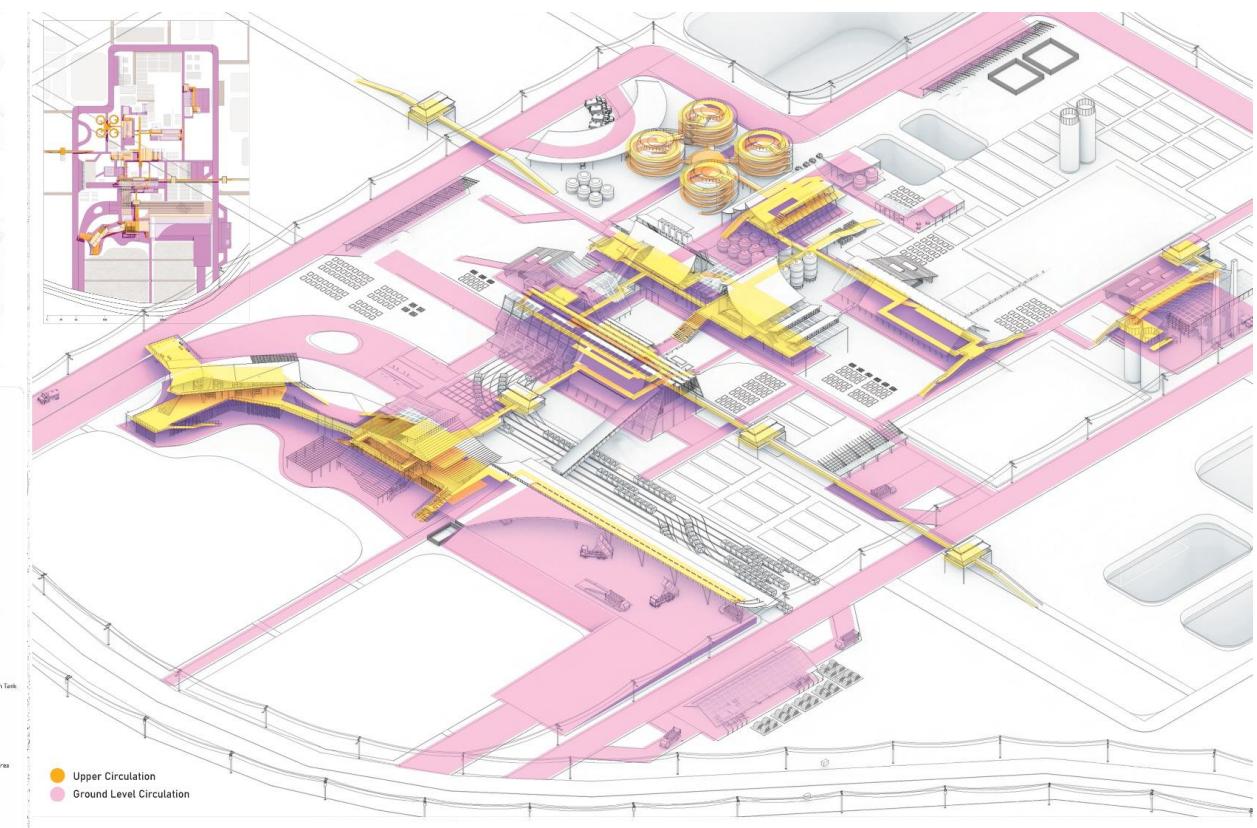
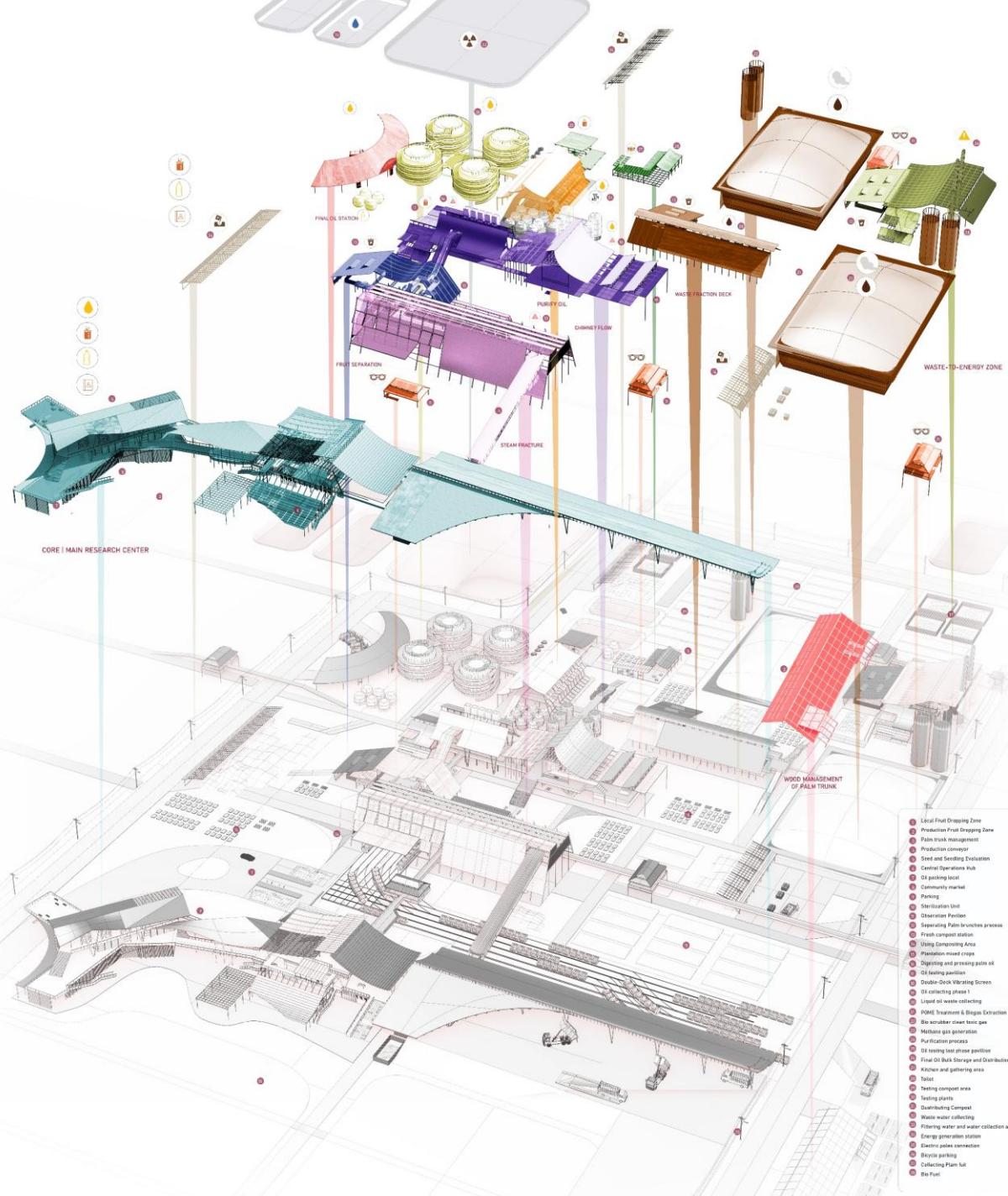
Land Required : 4,074 hectares

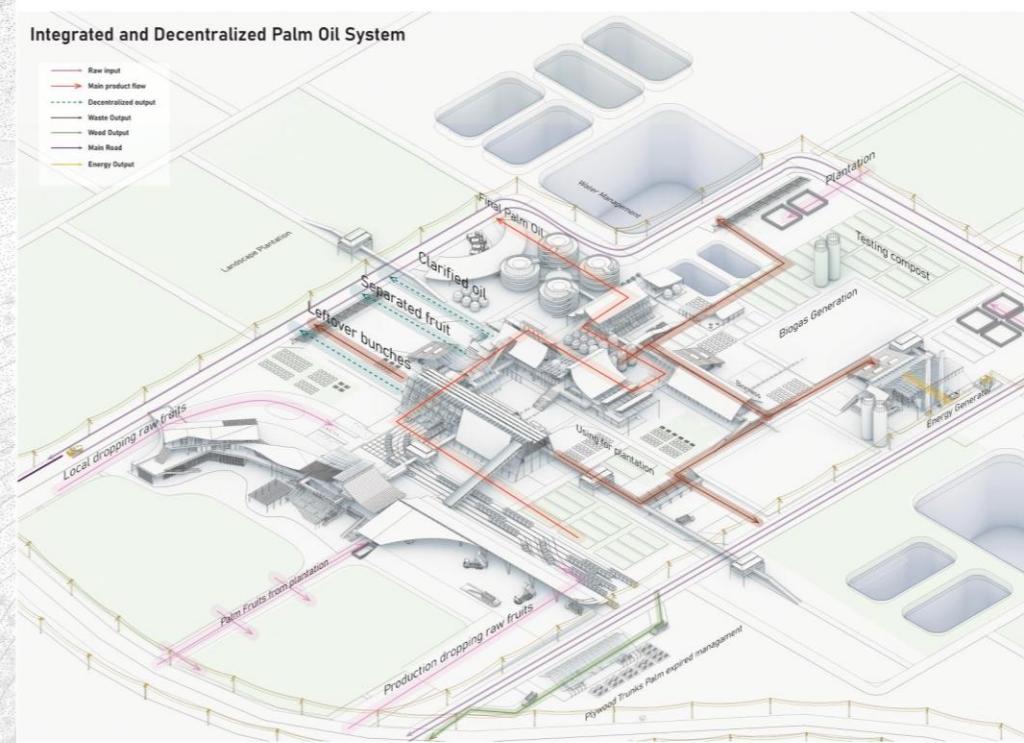
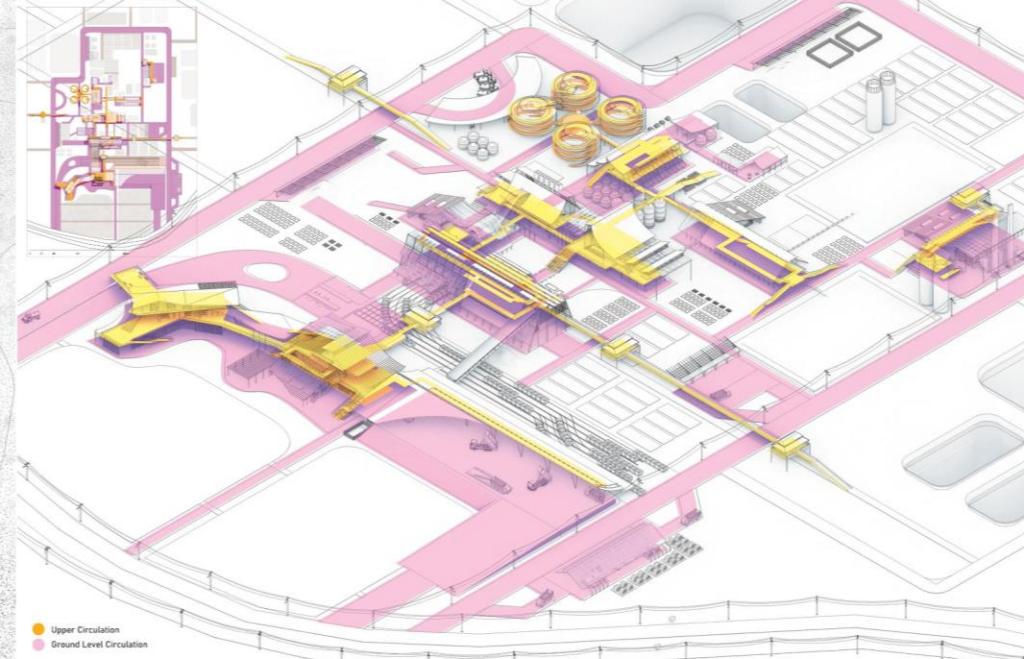
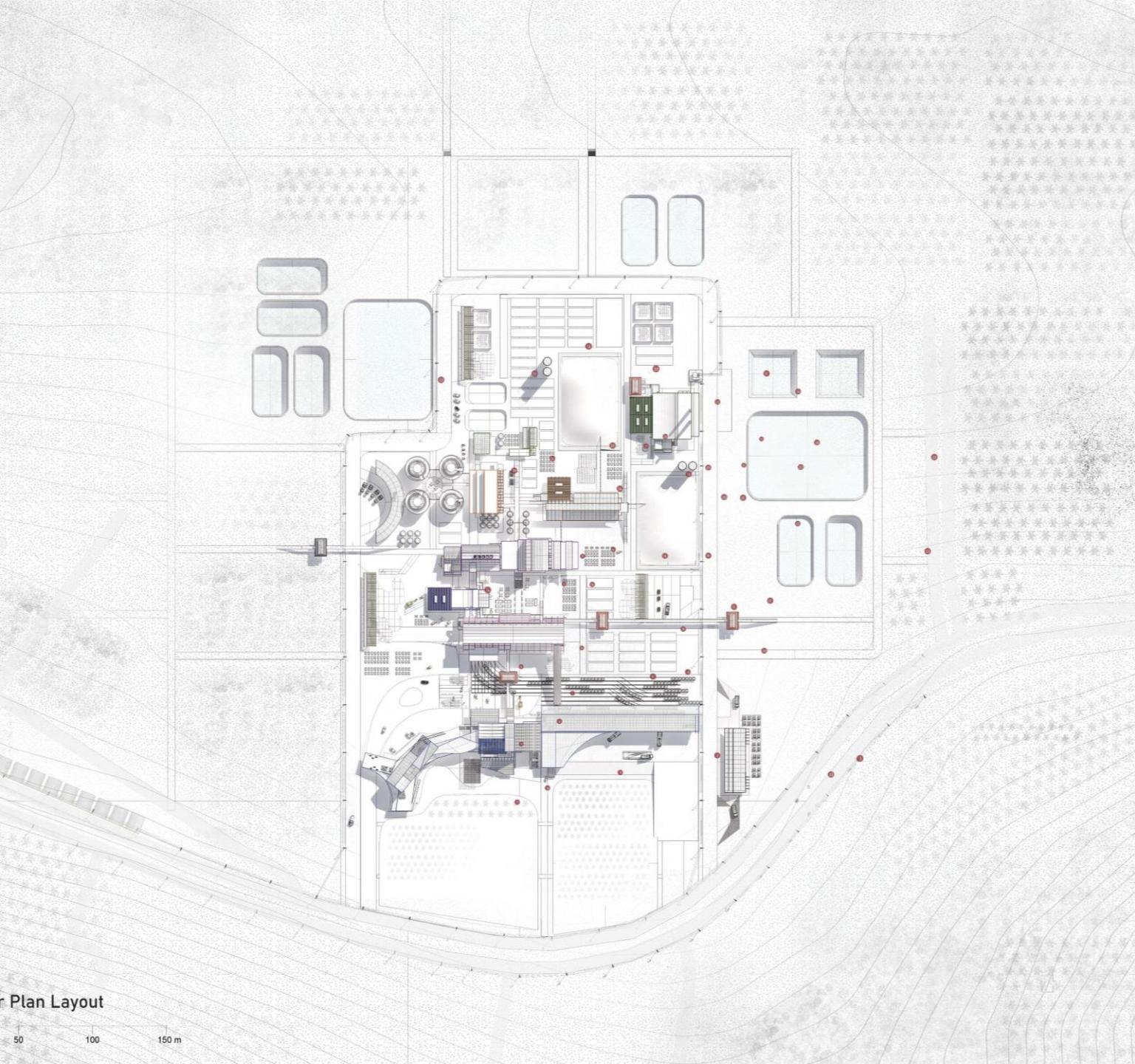


Integrated and Decentralized Palm Oil System

- Raw input
- Main product flow
- Decentralized output
- Waste Output
- Wood Output
- Main Road
- Energy Output





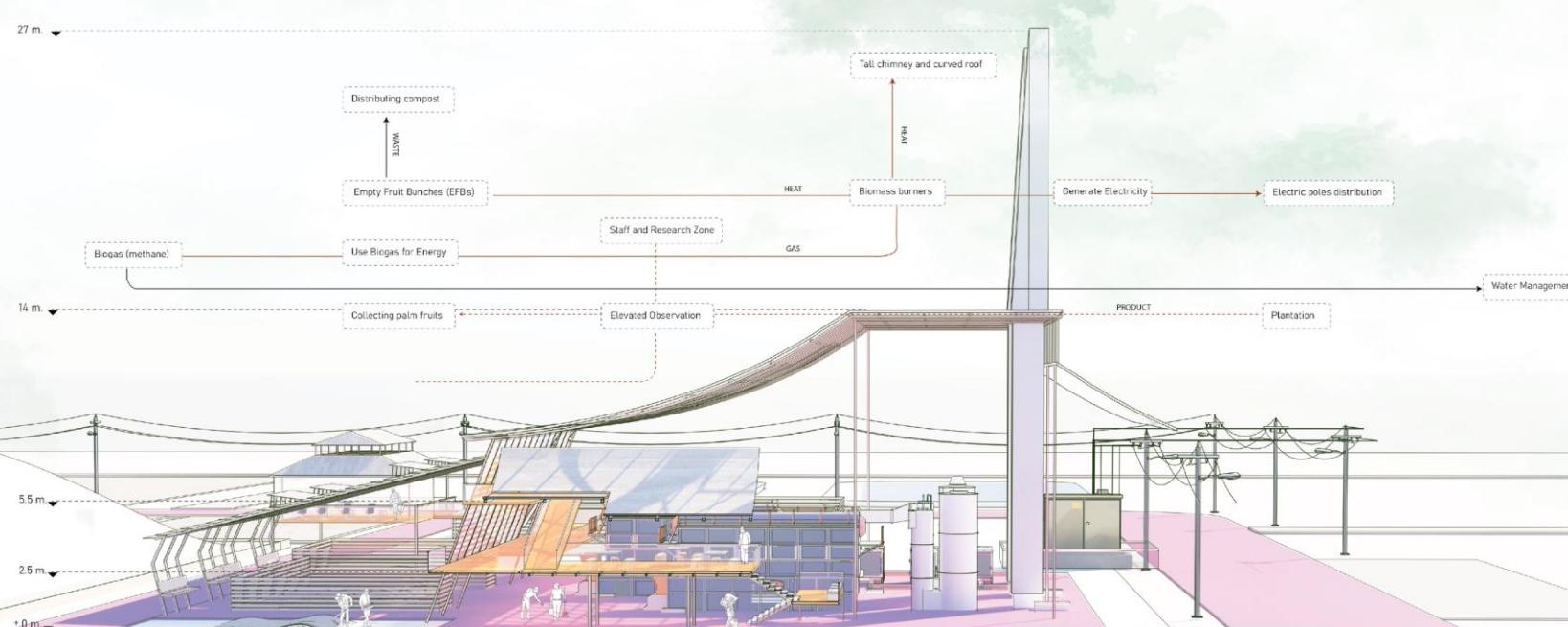
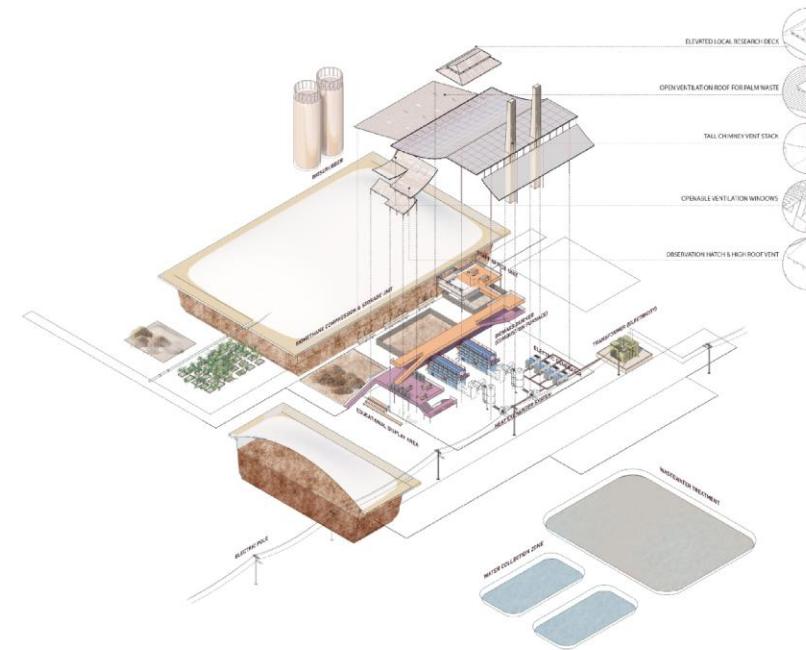


Site Plan Layout

50 100 150 m

WASTE-TO-ENERGY ZONE

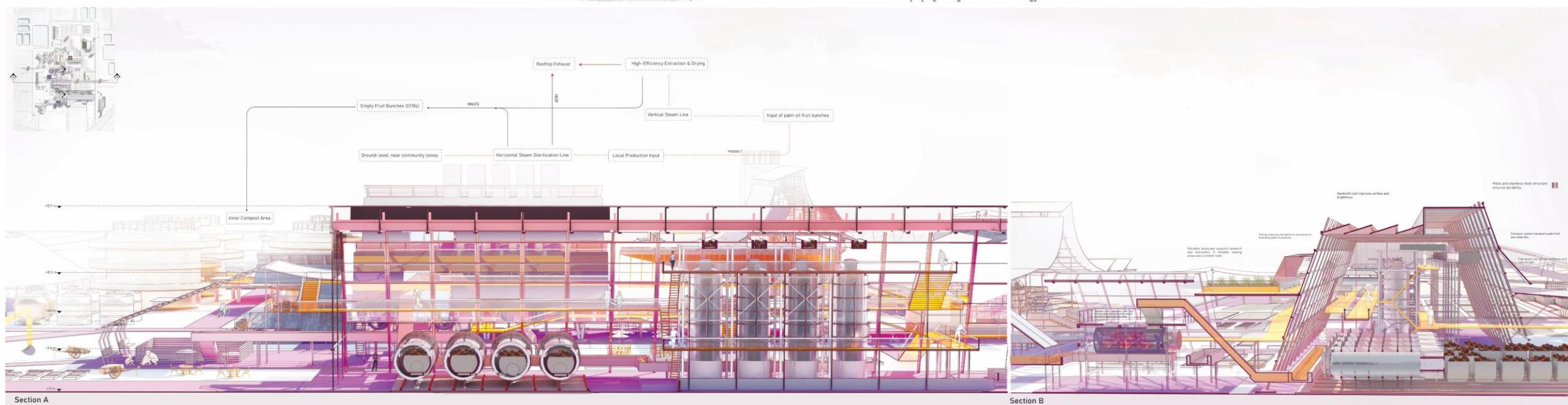
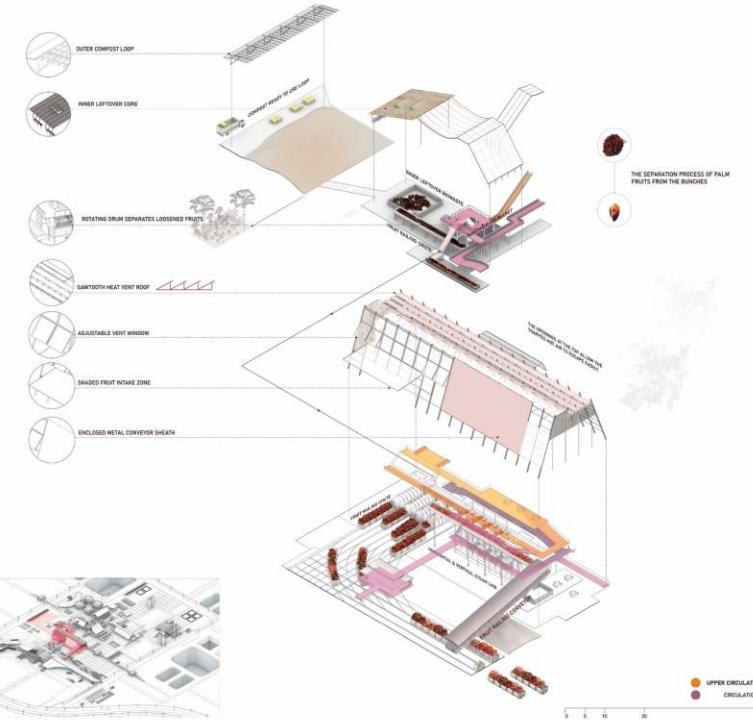
Waste fuels the system, turning fiber and shells into thermal energy





STEAM FRACTURE FRUIT SEPARATION

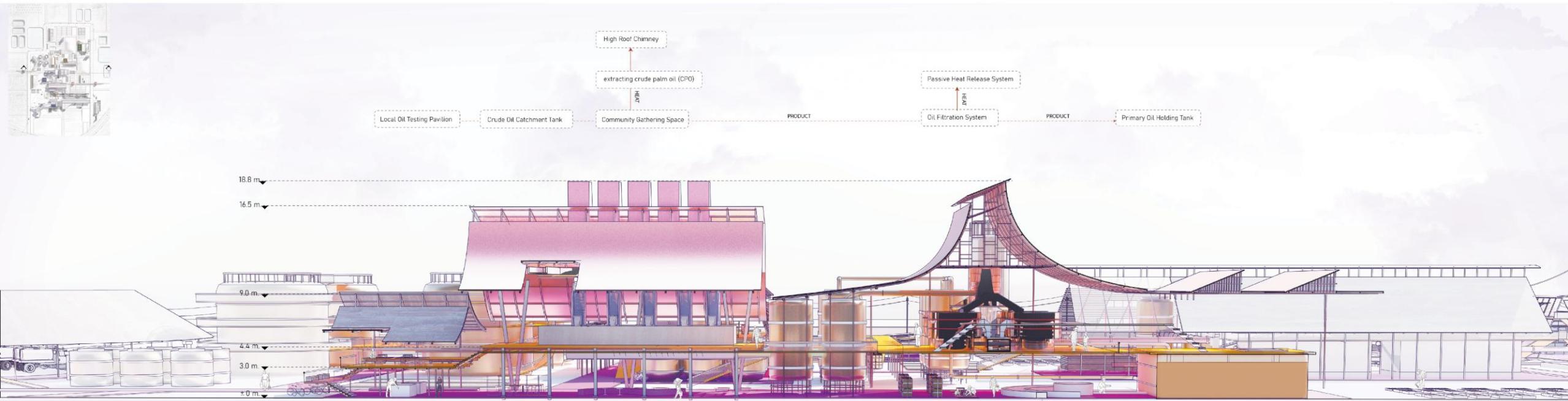
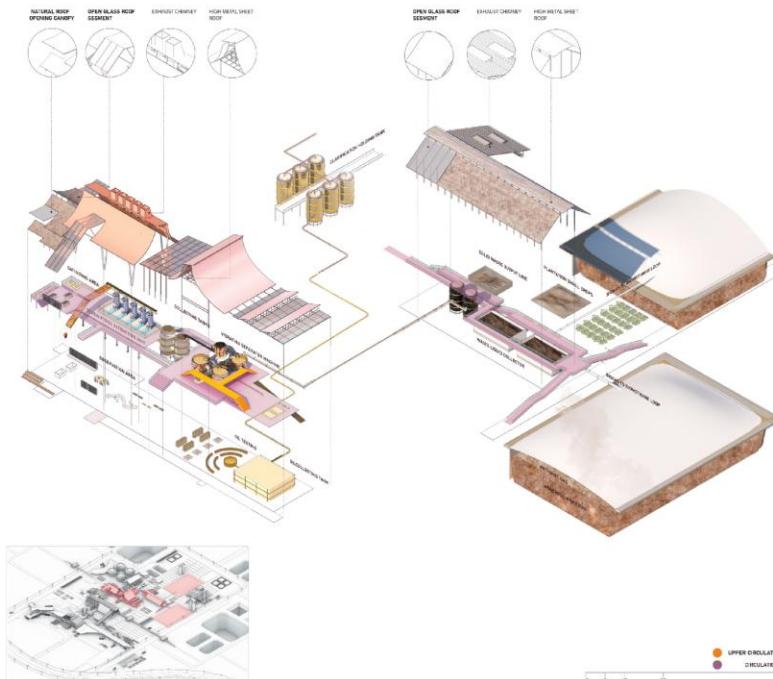
Steam palm bunches and separate fruit for oil; compost the leftover branches.





CHIMNEY FLOW & WASTE FRACTION DECK

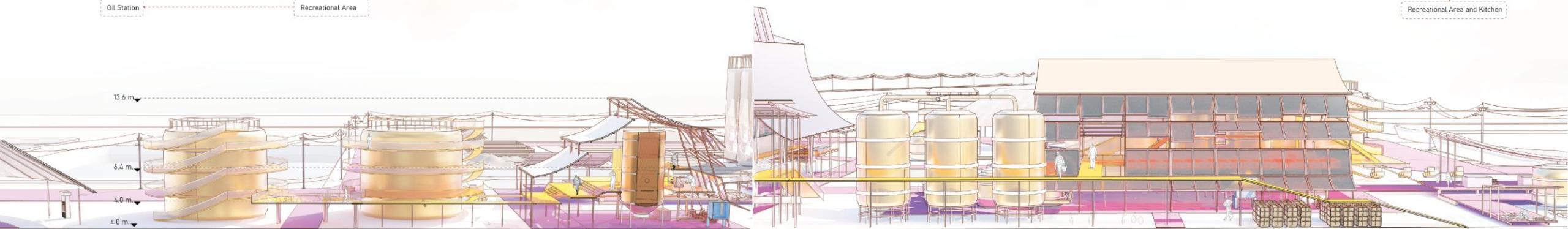
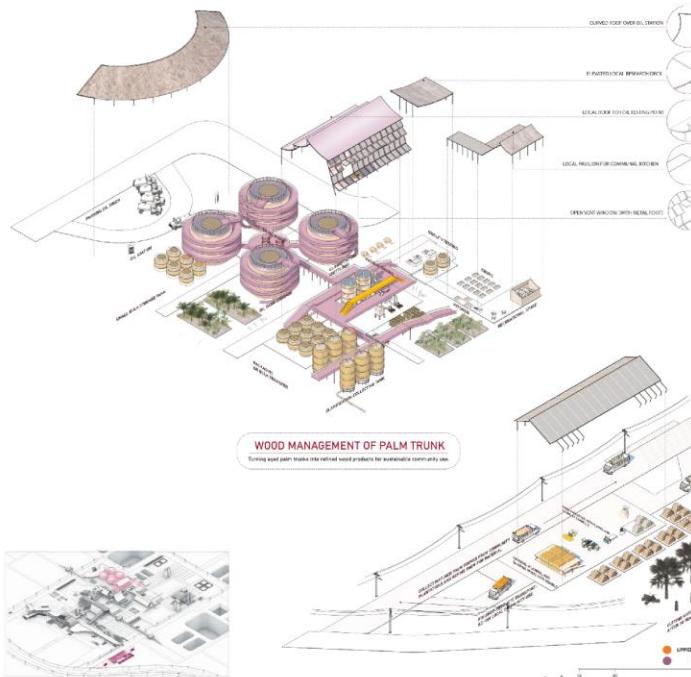
Where boiling, separation, and waste sorting converge under heat and rhythm.

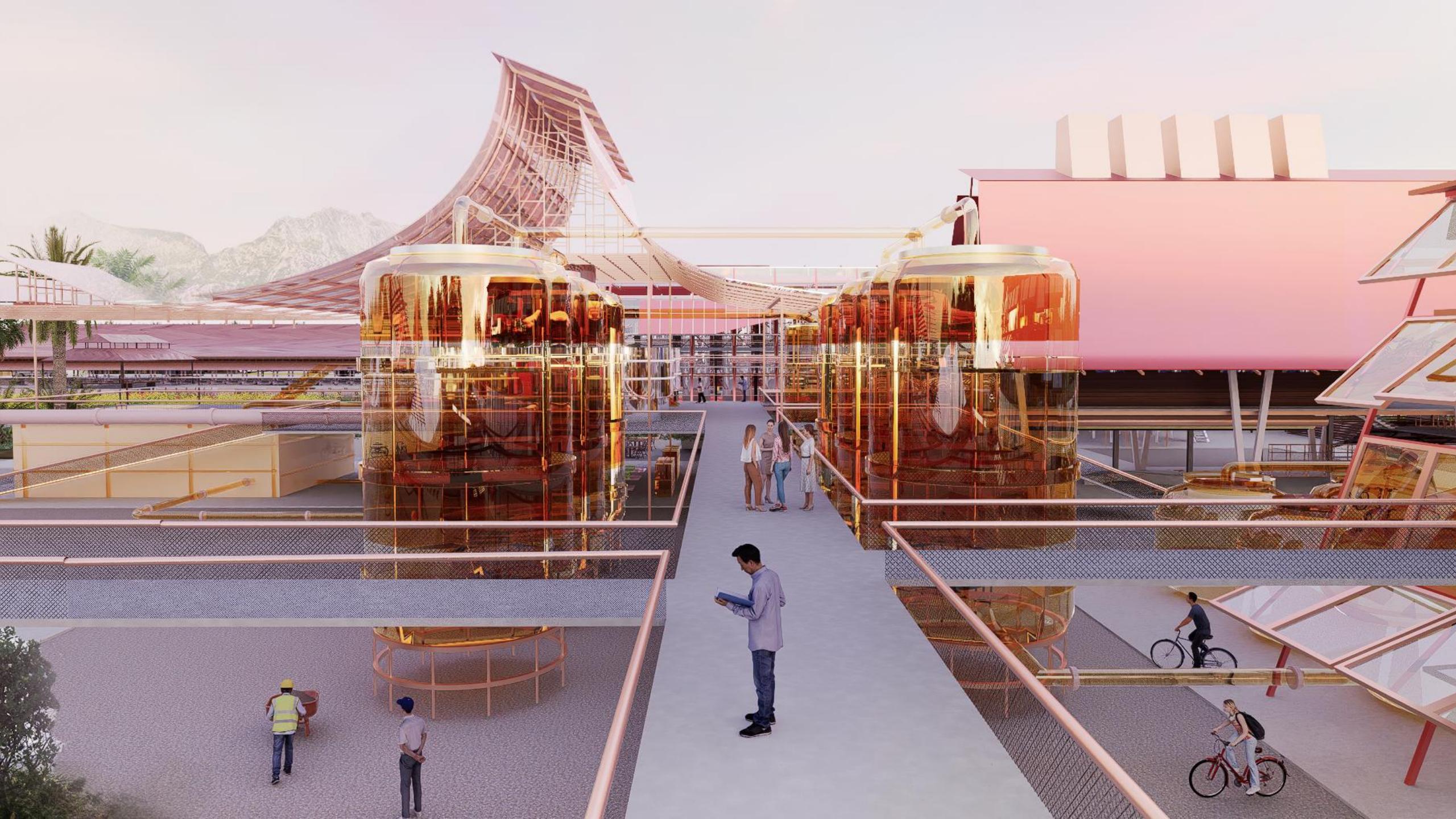




PURIFY OIL SETTLING FIELD

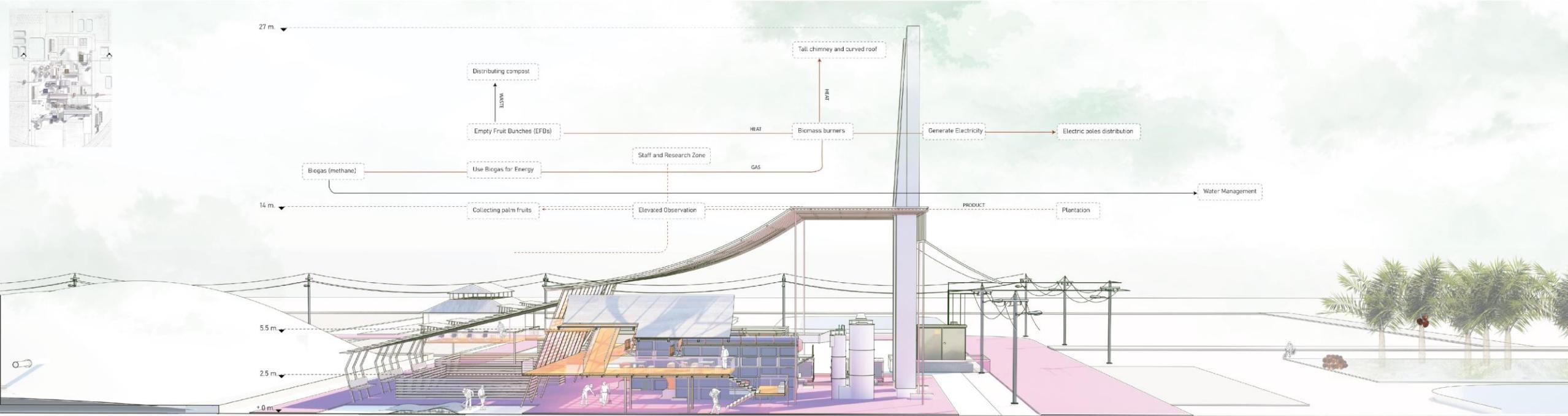
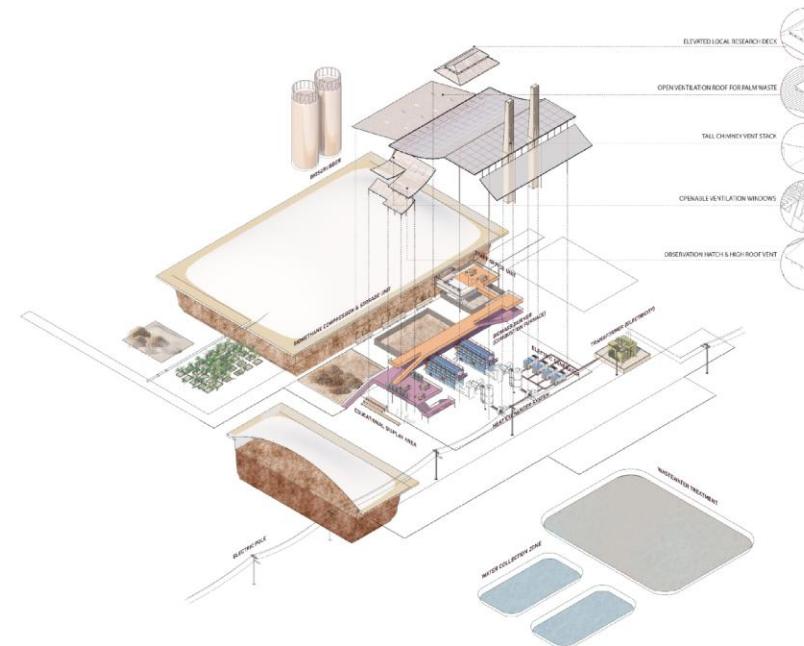
Where crude palm oil gently settles, refines, and flows into clarity for everyday use.





WASTE-TO-ENERGY ZONE

Waste fuels the system, turning fiber and shells into thermal energy

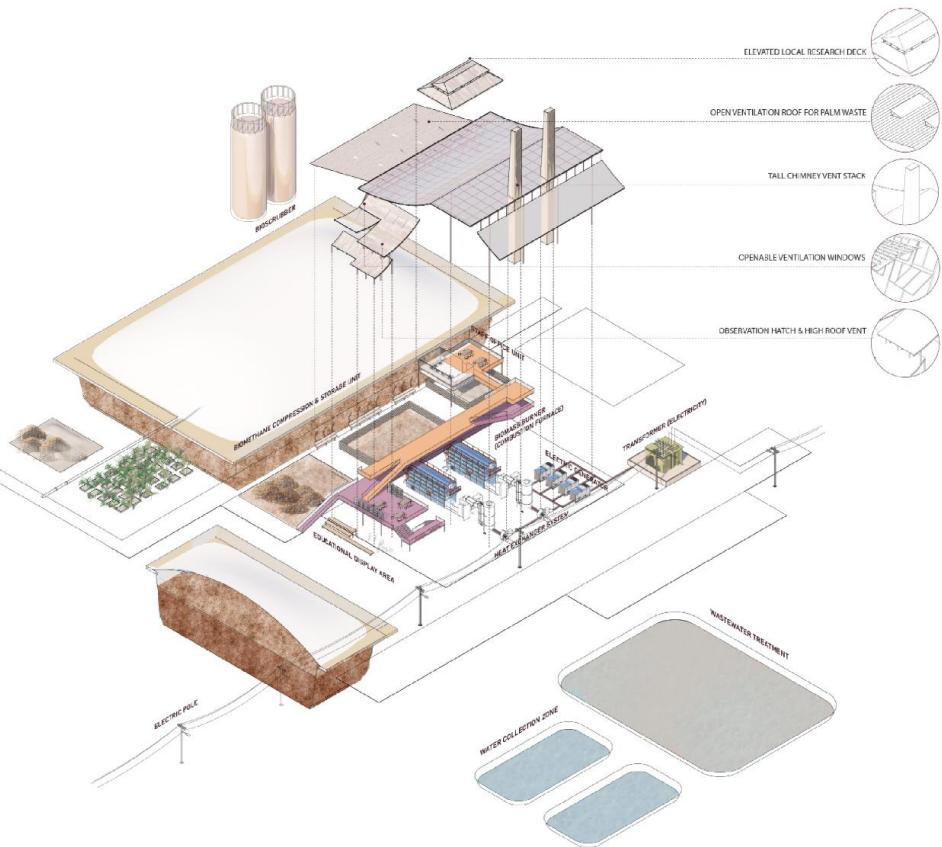






WASTE-TO-ENERGY ZONE

Waste fuels the system, turning fiber and shells into thermal energy





Local scale unit



Middle and Industrial scale unit

