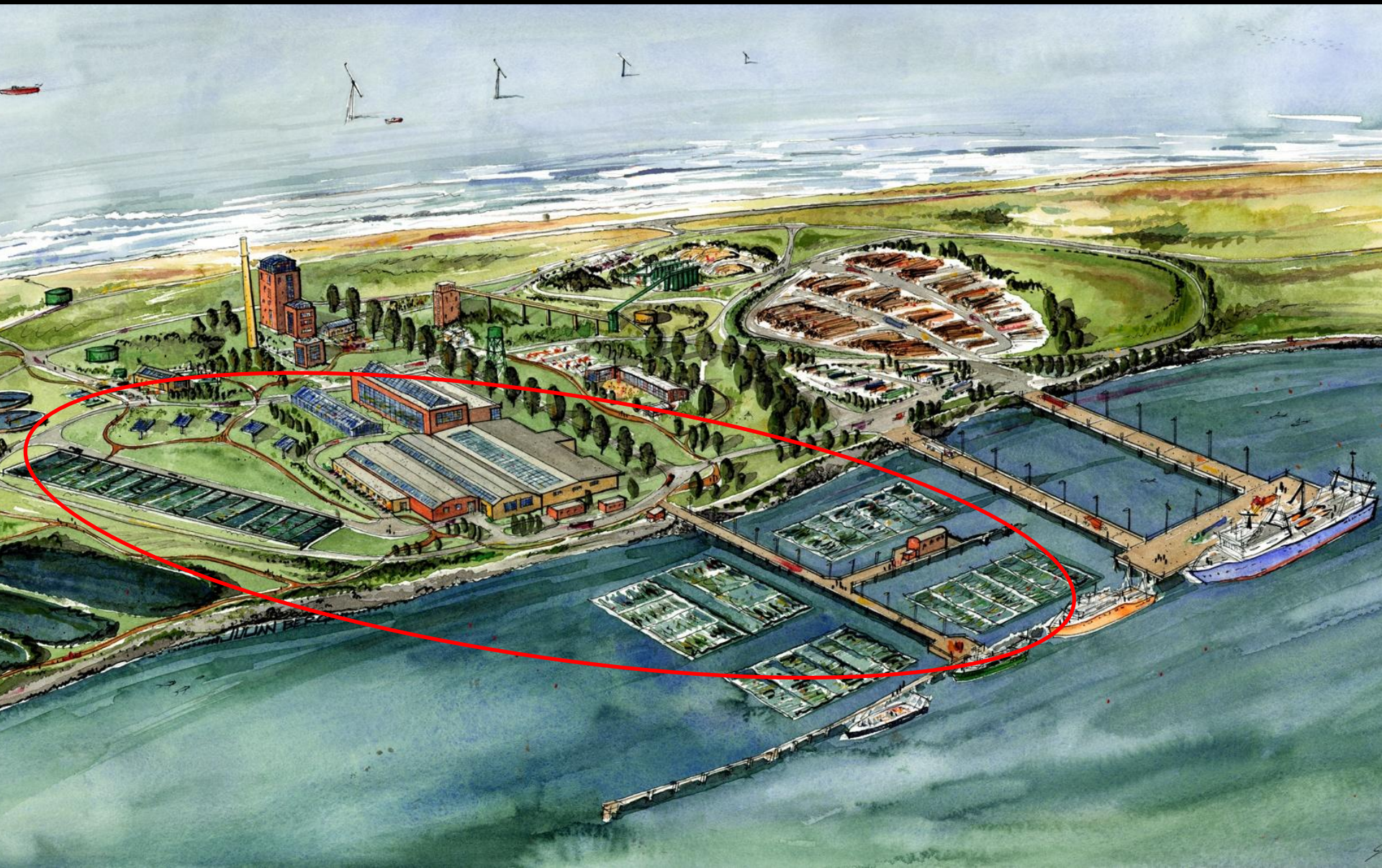
National Marine Research and Innovation Park

PUBLIC CARGO DOCK

PUBLIC CARGO DOCK

- Public shipping dock
- Longshore services
- Break Bulk storage warehouses
- Bulk transfer from ships

AQUACULTURE



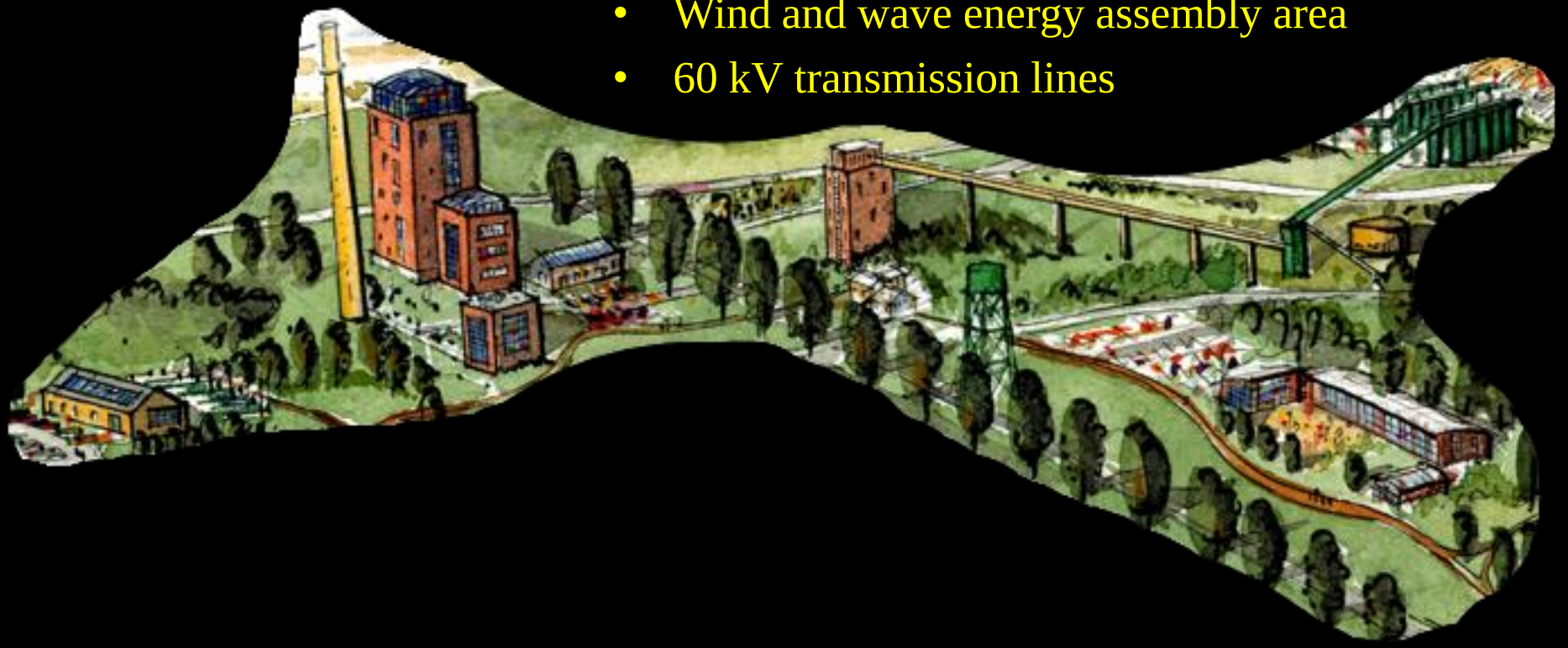
AQUACULTURE

- Fish raceways for finfish production
- Aquaculture/mariculture hatchery
- Aquaponics greenhouse
- Shellfish rafts for oyster cultivation
- Filter for water treatment
- Fresh water from the water district
- Water clarifiers to remove minerals

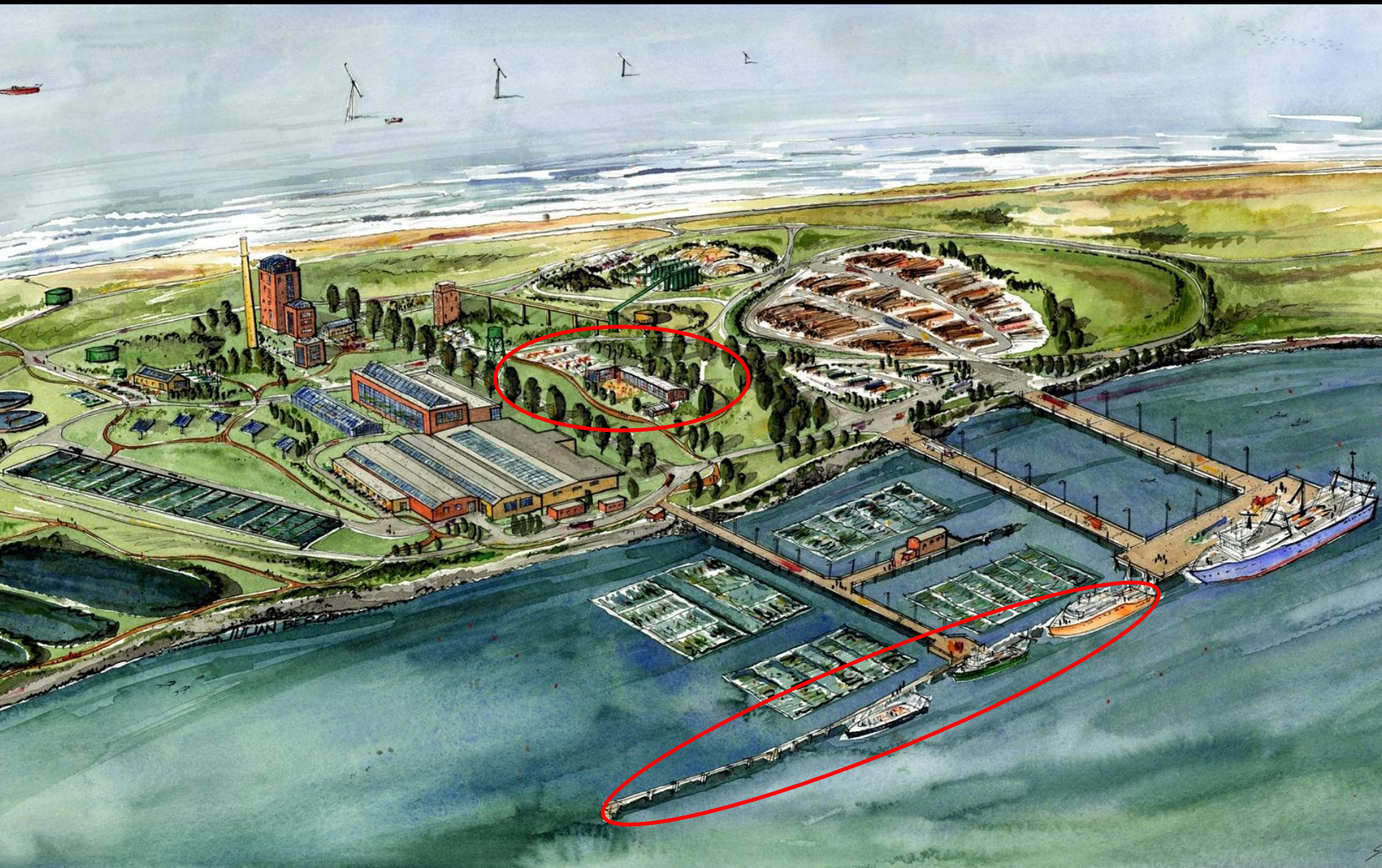
ENERGY

ENERGY

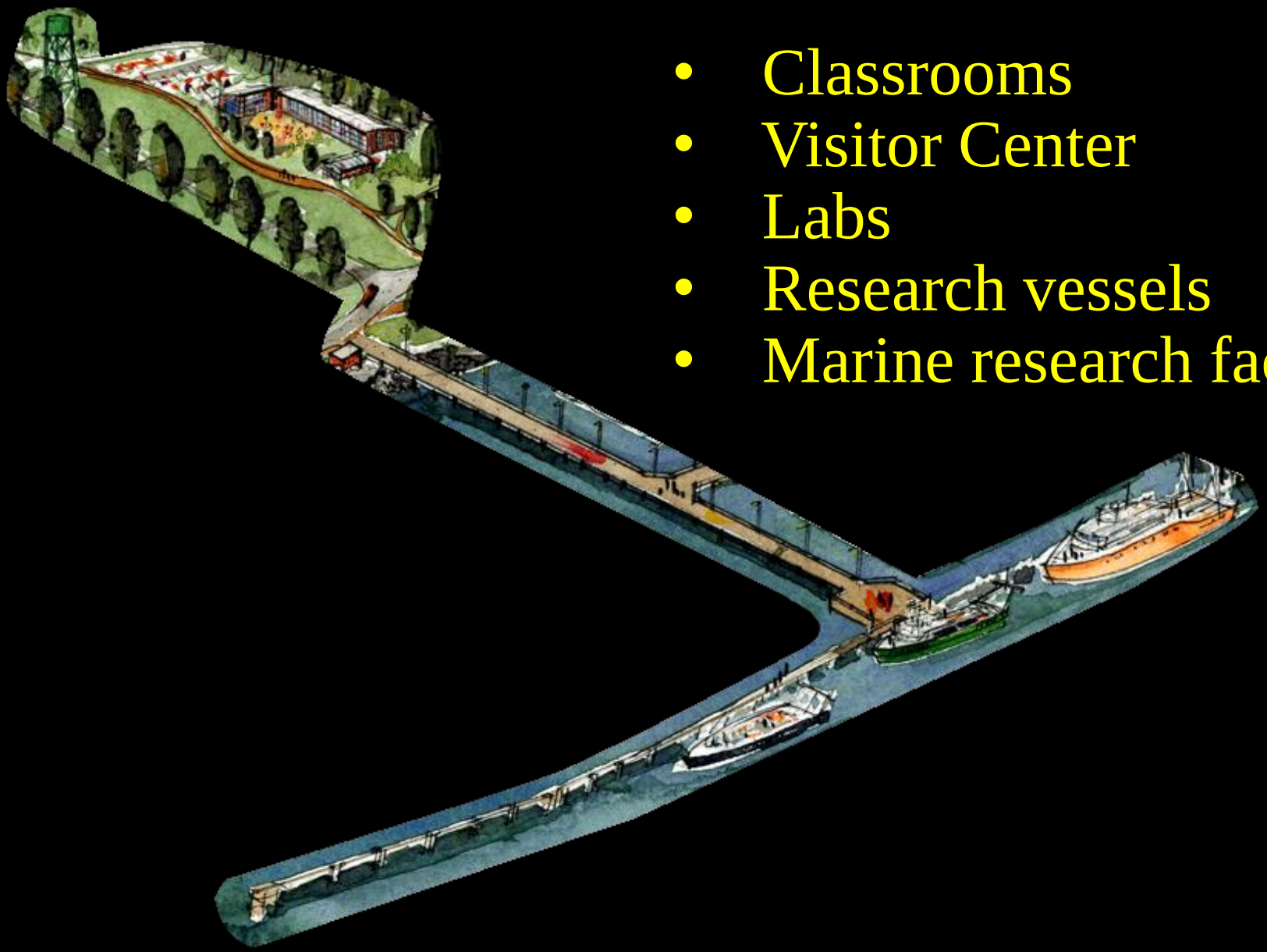
- Fabrication for energy systems
- Renewable energy research labs
- PRO (Pressure Retarded Osmosis) Energy
- Biomass storage (logs, chips, pellets)
- 20 MW biomass boiler
- Wind and wave energy assembly area
- 60 kV transmission lines



MARINE RESEARH



MARINE RESEARH



- Classrooms
- Visitor Center
- Labs
- Research vessels
- Marine research facilities

Humboldt Aquaculture Innovation Center

Aquaponics pilot facility funded by
The Headwaters Fund grant and HBHCRD

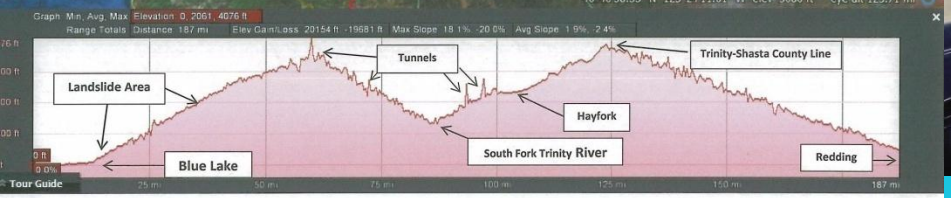
www.aquaponicsinternational.com

- Zero waste
- Freshwater re-circulating system: Vegetables & Fish
- Organic by design (no pesticides/herbicides)
- 2,100 sq.ft. greenhouse donated by Sun Valley Farms

BST-Restoring Rail Service

- Develop preliminary cost estimates to reconstruct existing North Coast Rail corridor.
- Develop preliminary cost estimates to build new east-west alignment to Red Bluff.
- Estimate Cargo volumes needed to generate sufficient revenues to cover construction, operation and maintenance costs per road.
- Financial Feasibility Analysis

Final Project Due Mid June



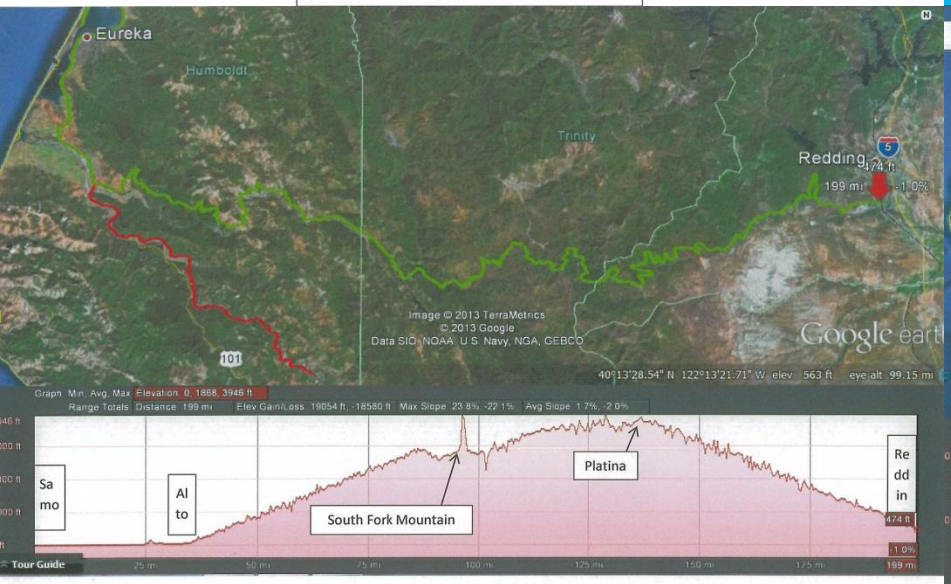
Lentell #1 =

Alternative Route to Avoid Landslide Area =

Former NWP =

Diagram #1: Lentell Route - Blue Lake to Redding (Rail Route #1)
190 miles with Mileage beginning at Samoa.
Maximum Gradient : 1.5%
Maximum Speed: 40 MPH

Alternative route around landslide area near Blue Lake adds 0.8 miles to total route length.



Lentell #2 =

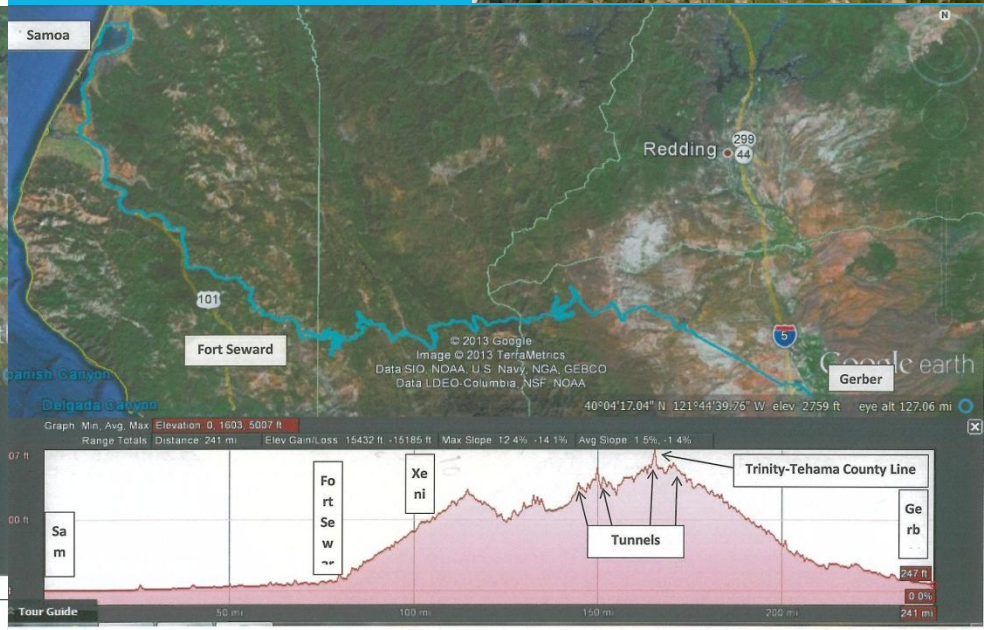
Former NWP =

Diagram #2 – Lentell #2 - Alton to Redding – Railroute #2

212.6 miles with mileage beginning in Samoa

Maximum Gradient = 1.0%

Maximum Speed: 40 MPH



Railroute #3

Diagram #3 - Eel Canyon Railroute #3
Samoa to Gerber – 241 miles
Maximum Gradient = 1.5%
Maximum Speed = 40 MPH