400W wind turbine

average Norfolk wind speed: 10.5 MPH (source: NOAA)

sun's rays hit roof-mounted solar panels

200W PV panels
quantity: 6
array = 1200W

250 AMP-H batteries
quantity: 6

charge control/display monitor

fixtures and other elements powered by stored energy
Diagrammatic electrical plan of the Barge: source, path, destination.