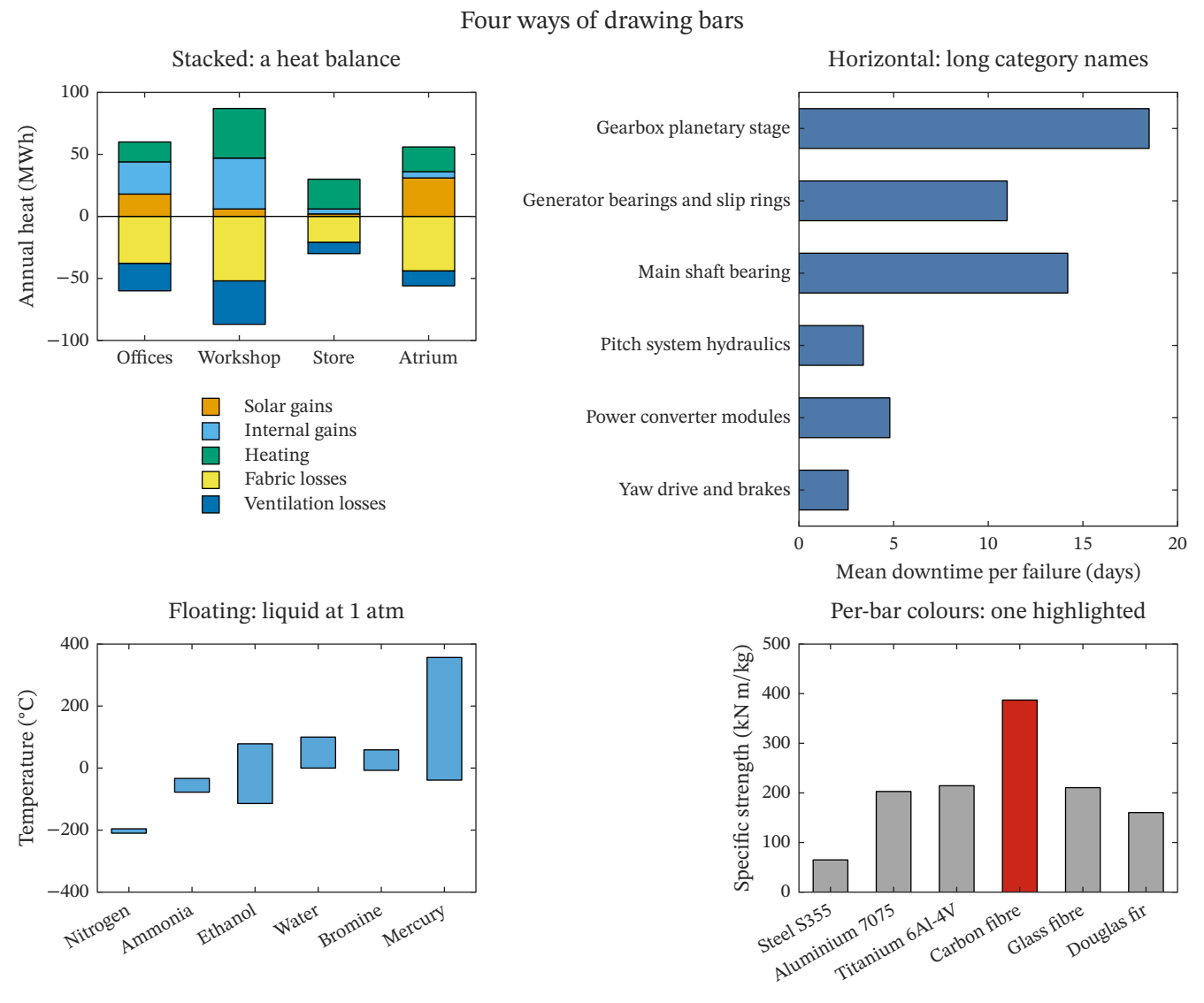

Four ways of drawing bars
Stacked: a heat balance
Annual heat (MWh)
100
50
0
−50
−100
Offices
Workshop
Store
Atrium
Solar gains
Internal gains
Heating
Fabric losses
Ventilation losses
Horizontal: long category names
Gearbox planetary stage
Generator bearings and slip rings
Main shaft bearing
Pitch system hydraulics
Power converter modules
Yaw drive and brakes
0
5
10
15
20
Mean downtime per failure (days)
Floating: liquid at 1 atm
Temperature (°C)
400
200
0
−200
−400
Nitrogen
Ammonia
Ethanol
Water
Bromine
Mercury
Per-bar colours: one highlighted
Specific strength (kN m/kg)
500
400
300
200
100
0
Steel S355
Aluminium 7075
Titanium 6Al-4V
Carbon fibre
Glass fibre
Douglas fir