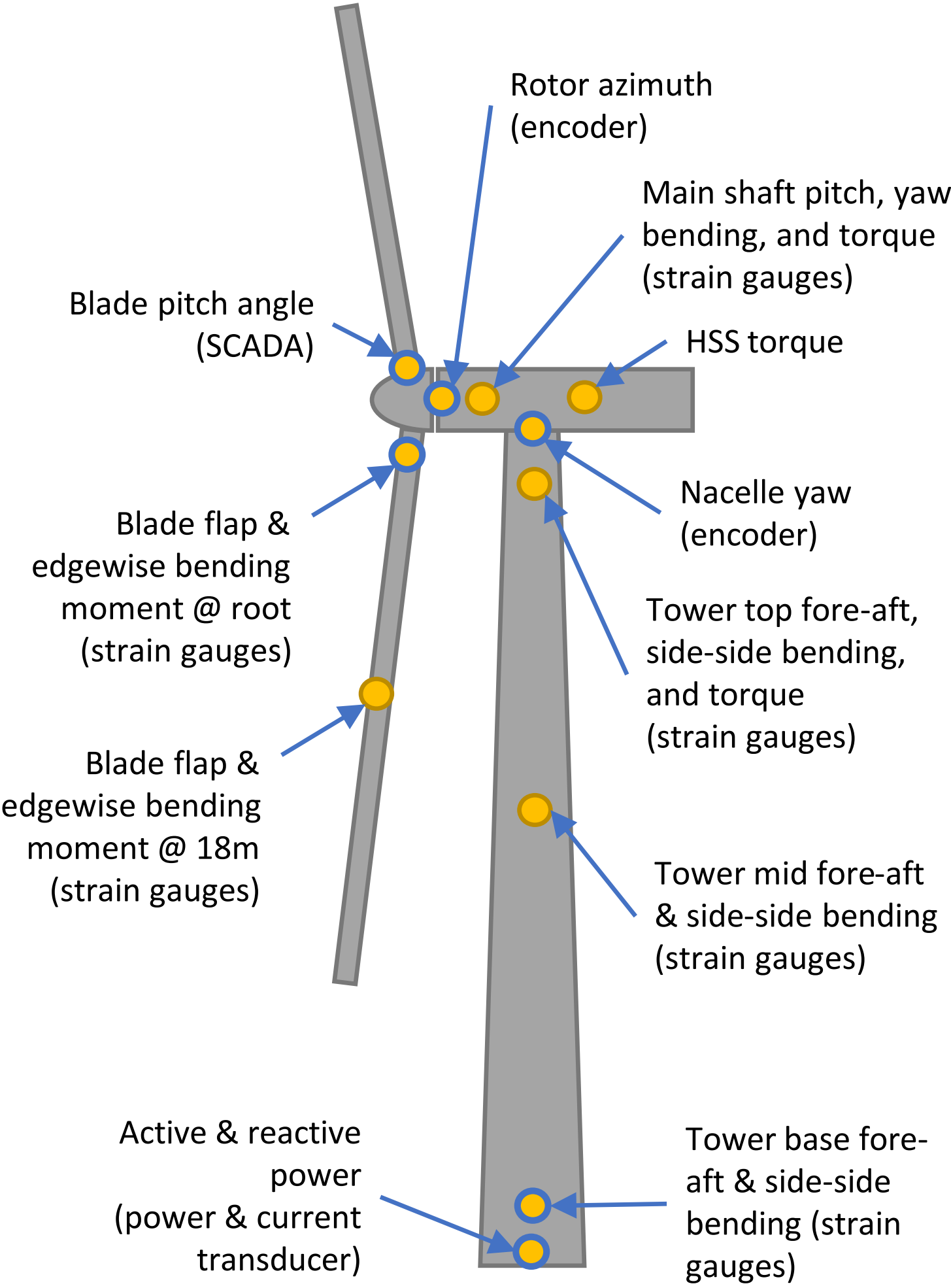
Rotor azimuth
(encoder)
Main shaft pitch, yaw
bending, and torque
(strain gauges)
Blade pitch angle
(SCADA)
HSS torque
Nacelle yaw
(encoder)
Blade flap &
edgewise bending
moment @ root
(strain gauges)
Tower top fore-aft,
side-side bending,
and torque
(strain gauges)
Blade flap &
edgewise bending
moment @ 18m
(strain gauges)
Tower mid fore-aft
& side-side bending
(strain gauges)
Active & reactive
power
(power & current
transducer)
Tower base fore-
aft & side-side
bending (strain
gauges)