**Collapsible sections**

**Vehicle Inputs**

Cd, FA, total mass

**Wheel Setup**

Rolling Resistance Coefficient: 0.0067

Tyre Diameter

**Drivetrain Type**

Motor Type: (from dropdown)

Motor quantity: (from dropdown)

Gear Ratio: NUMBER to 1

**Battery Setup**

Module Cell Setup: S, P (module characteristics appear immediately)

Pack Setup: Modules in Series, Modules in Parallel (pack characteristics appear immediately)

Starting SOC: %

SOC: Fixed level/drains through simulation

**Regenerative Braking**

Energy captured (%)

**Auxillaries**

Constant power (kW)

**Thermal Properties**

Drive Cycle: Use Drive Cycle Profile, Use Constant Speed, Use Acceleration Event

Length of time to drive:

Elevation Profile: Flat,

Wind

Ambient Temperature

Move buttons to panel

Add elevation profile to drive cycle

Add gradient to constant speed and acceleration event

Add length of time panel to run simulation (or run to % SOC remaining)

Add input warnings

**Simulation**

~~Side menu indicator to which section on~~

~~Make simulation results unfold when click simulate~~

Need to zoom in on time plots

~~Add other drive cycles~~

Add constant speed

Work out results screens

**Outputs**

**Energy Breakdown**

Pie chart of energy % used on different accel, drivetrain efficiency, rolling, auxillaries, gradient

**Range**

**Vehicle Performance**

Max velocity

Accel 0 to 50

Accel 50 to 100

**Battery SOC**