

#### LIFE

##### **Accurate Battery Life Prediction**

Our hybrid simulation allows for accurate prediction with minimal experimental data.

#### SAFETY

##### **Safer Battery Pack Designs**

Predict cell temperature for various drive cycles to guide pack layout and cooling strategy for safe battery operations.

#### PERFORMANCE

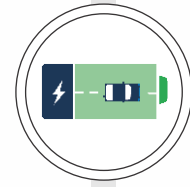
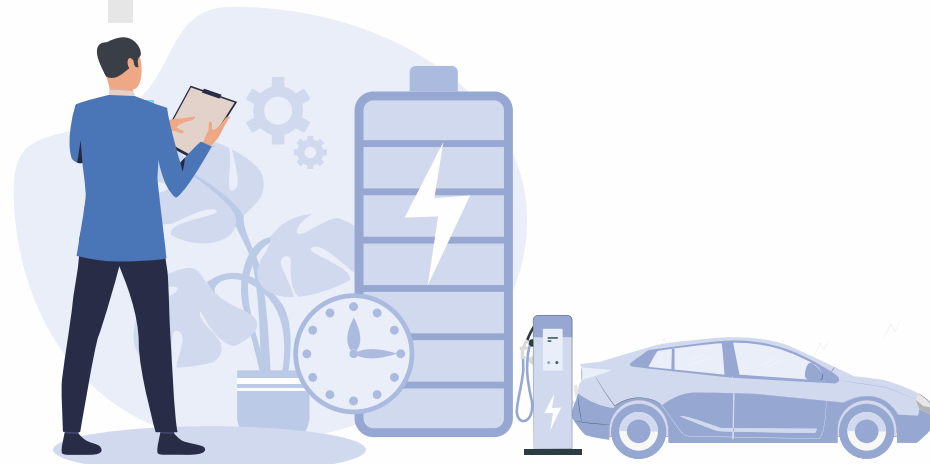
##### **Faster High Fidelity Predictions**

Eliminate complex geometries and experimentation to quickly achieve high accuracy.

#### SAVINGS

##### **Time and Cost Savings**

No installations or experts necessary; run through various parameters quickly using the power of ML.



**Book a demo today!**



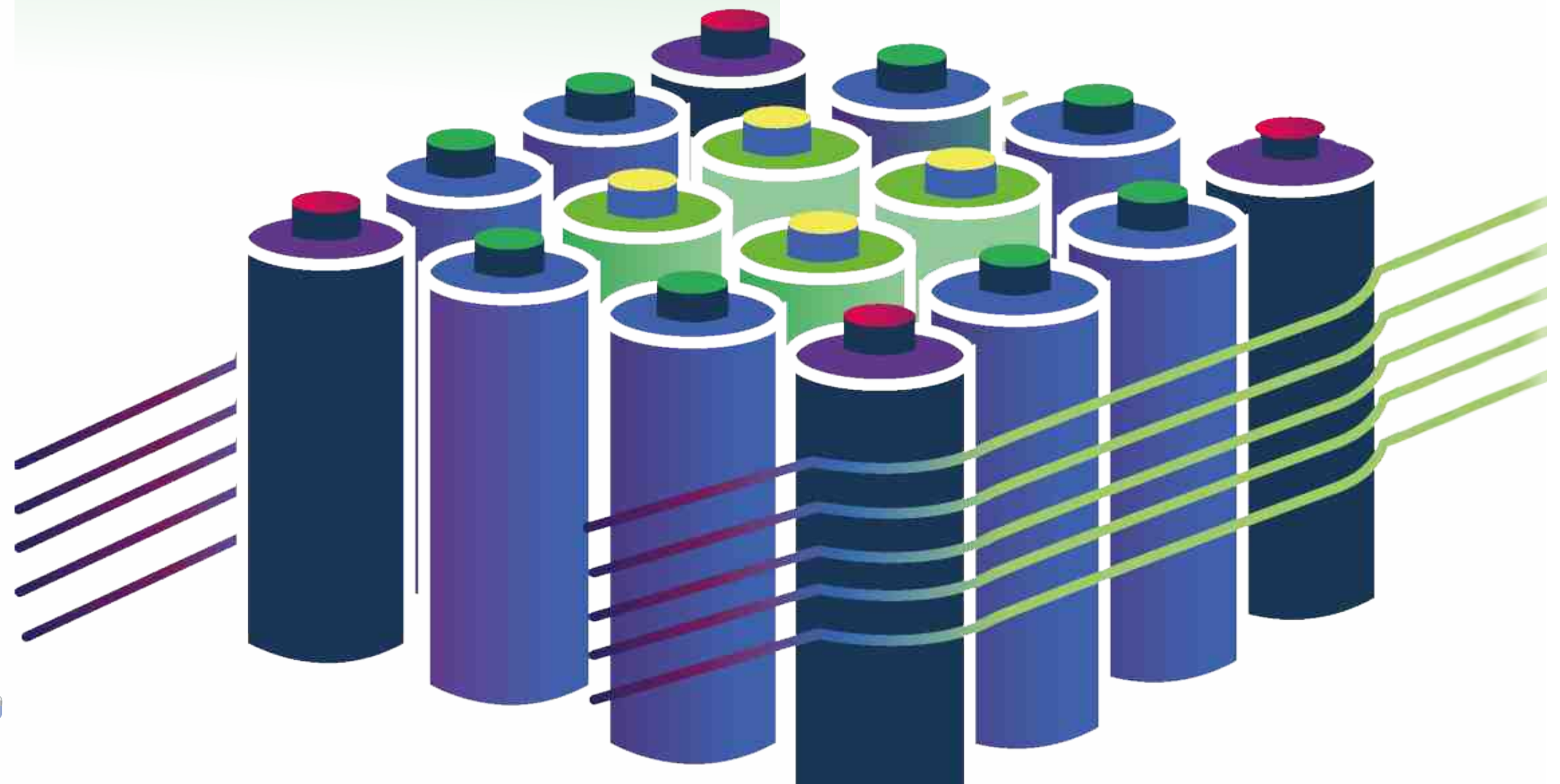
**Scan the QR code  
or call us at:**

**96111 02670**

oorja.energy

### **Hybrid Simulations for Smarter Designs**

Optimize battery pack design  
using hybrid physics based  
machine learning simulations.



## APPs



### Design App

Quickly create your pack geometries or import CAD geometries from other software to optimize.



### Data Processing App

An ML-powered tool to ready your experimental data for hybrid modelling - remove noise and fluctuations, fill in missing data points.



### Property Database App

A central repository for all your cell and pack level properties to conveniently use across projects, and spaces and collaborate with colleagues.



### Thermal Property Estimation App

Accurately evaluate non-uniform thermal cell properties to predict accurate thermal results.



### Thermal Management App

Perform pack-level thermal analysis to optimize packaging constraints such as inter-cell spacing, casing thickness, filler material and a choice of cooling strategies using state-of-the-art hybrid simulations.



### Thermal Runaway App

Perform thermal runaway initiation and propagation studies at the pack level to identify propagation speed. Optimize pack design to ensure single cell thermal runaway does not compromise pack safety



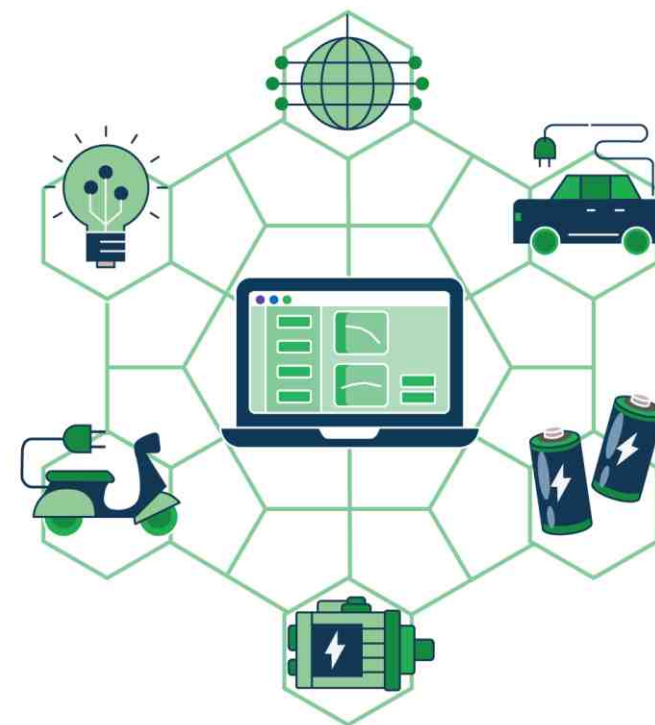
### Drive Cycle App

Calculate current vs time drive cycles for EVs based on traditional velocity vs time drive cycles, taking into account vehicle parameters and operating conditions.



### Degradation App

Quickly estimate SOH at the cell and pack level for user drive cycles and ambient conditions.



**Through an innovative hybrid simulation approach, oorja is driving a paradigm shift in battery pack design and optimization**

- Easy to Use
- No Installation or Experts Needed
- Unique SaaS Model
- Affordable subscriptions