DYNAMON

EMPOWERING FLEETS FOR TOMORROW. TODAY.

Enabling a right first-time transition to Electric Commercial Vehicles

Nick Bridle - Customer Success Manager

DYNAMON

- Fleet optimisation software for the commercial transport industry.
- Utilising advanced simulation technology previously only used by engineers working in industries such as Formula 1.
- On a mission to make the transition to EVs simple, cost effective and profitable.
- Developed a software tool ZERO to ensure a seamless transition to EVs.

"ZERO is the only solution looking at the whole picture, identifying the optimum vehicles and charging infrastructure as one. This is crucial for the adoption of electric vehicles."

Dave Rowlands
Wincanton

Agenda

1. Fleet Decarbonisation - Legislation driving change.

2. Comprehensive Fleet Utilization Analysis

3. Strategic ICE to EV Transition Planning

4. Optimized Charging Infrastructure Design

1. Fleet Decarbonisation - Legislation driving change

Government Decarbonisation Policies

- The UK was the first major economy to commit to net zero carbon emissions by 2050 (Paris agreement)
- Focus is on UK Transport as the largest Greenhouse gas emitting sector at 24% for all UK emissions
- Zev mandate 2024
  - OEM's must register 22% of new cars & 10% of new vans (EV or FCEV's) or be fined £15k per car & £9k per van
  - 80% of new cars and 70% of new vans sold in UK set to be zero emission by 2030 - 100% by 2035
  - Light Trucks (<26t) must be zero emission by 2035 and all HGV's from 2040
- To date
  - Over 300 councils have made Clean Air Declarations !
  - 33% of Nitrogen Oxides (NOX) emissions and 14% of Particulate Matter (PM2.5) emissions came from Transport in 2020
  - 15 Clean Air Zones (ULEZ, LEZ and ZEZ) have already been deployed. Others are being considered by LA's
- Is "do nothing" still an option?

2. Comprehensive Fleet Utilization Analysis

About **ZERO**

ZERO

Empowering fleets for tomorrow.
Today


TRANSITION PLANNING


EV SELECTION


INFRASTRUCTURE DESIGN


COST ANALYSIS


GRID REQUIREMENTS

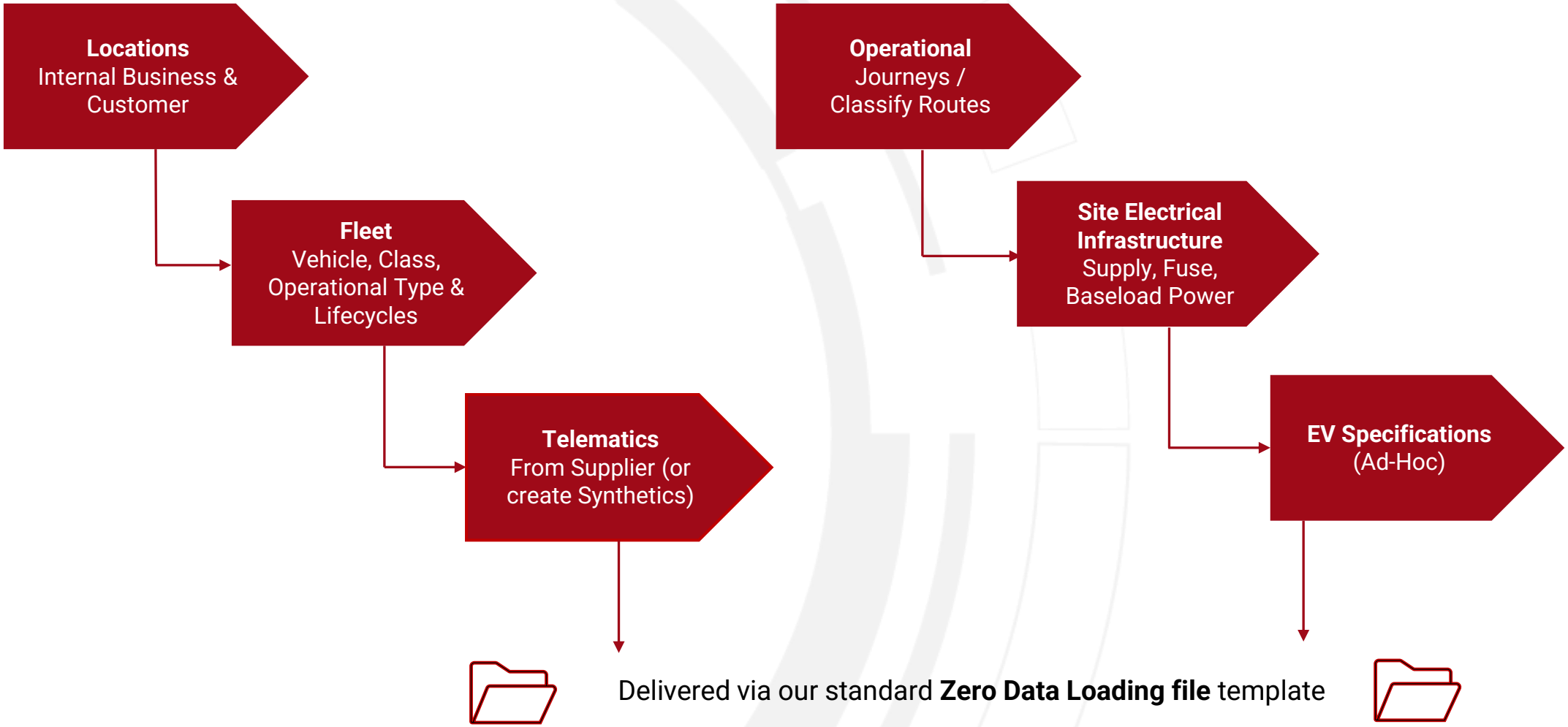

TARIFF OPTIMISATION


PUBLIC CHARGING


ROUTE OPTIMISATION

Local Authority Teams
What do we need from you?

Zero - Customer Data Collection Workflow



Partnerships - Working together

Options for driving Fleet related transition & decarbonisation plans

- LA Teams can analyse Zero outputs internally with own resources

- LA Teams can partner with an APSE associate to deliver the plan options
  - Learn best practice and share opportunities with others
  - Measure outputs and change supported by APSE performance networks

- LA Teams could use their own contractors

- Dynamon could support

3. Strategic ICE to EV Transition Planning

EV Energy Model

Driving data and locations mapped via Telematics

Journeys
Classify routes & create duty cycles with stops and total distance

Duty Cycles for Registration - PJ66AZD

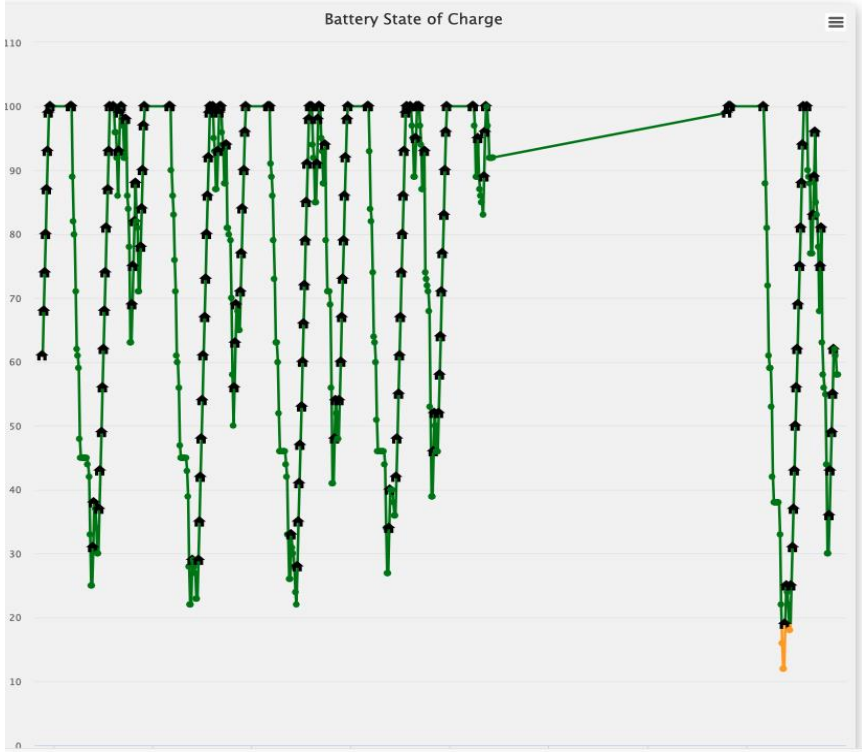
Vehicle Config: All Tevva 105kwh

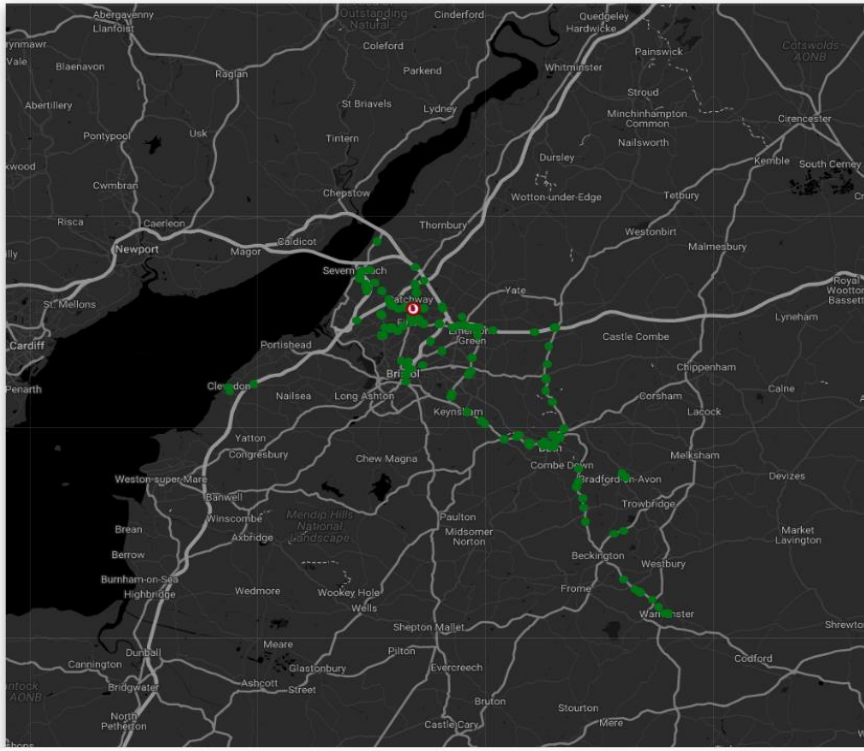
Charger Config: all 22

COLUMNS FILTERS EXPORT

Week	Registration	Start Date / Time	Distance	Time	Completed	Lowest SOC	Final SO...	
2021-10-25 (6)			818 mi	11625 mins	Yes	12.2%		VIEWING
	PJ66AZD	2021-10-25T21:03:14.00...	140 mi	1415 mins	Yes	25.2%		SELECT
	PJ66AZD	2021-10-26T20:38:19.00...	157 mi	1469 mins	Yes	22.5%		SELECT
	PJ66AZD	2021-10-27T20:58:41.00...	160 mi	1434 mins	Yes	21.9%		SELECT
	PJ66AZD	2021-10-28T20:57:38.00...	153 mi	1467 mins	Yes	27.3%		SELECT

1 row selected



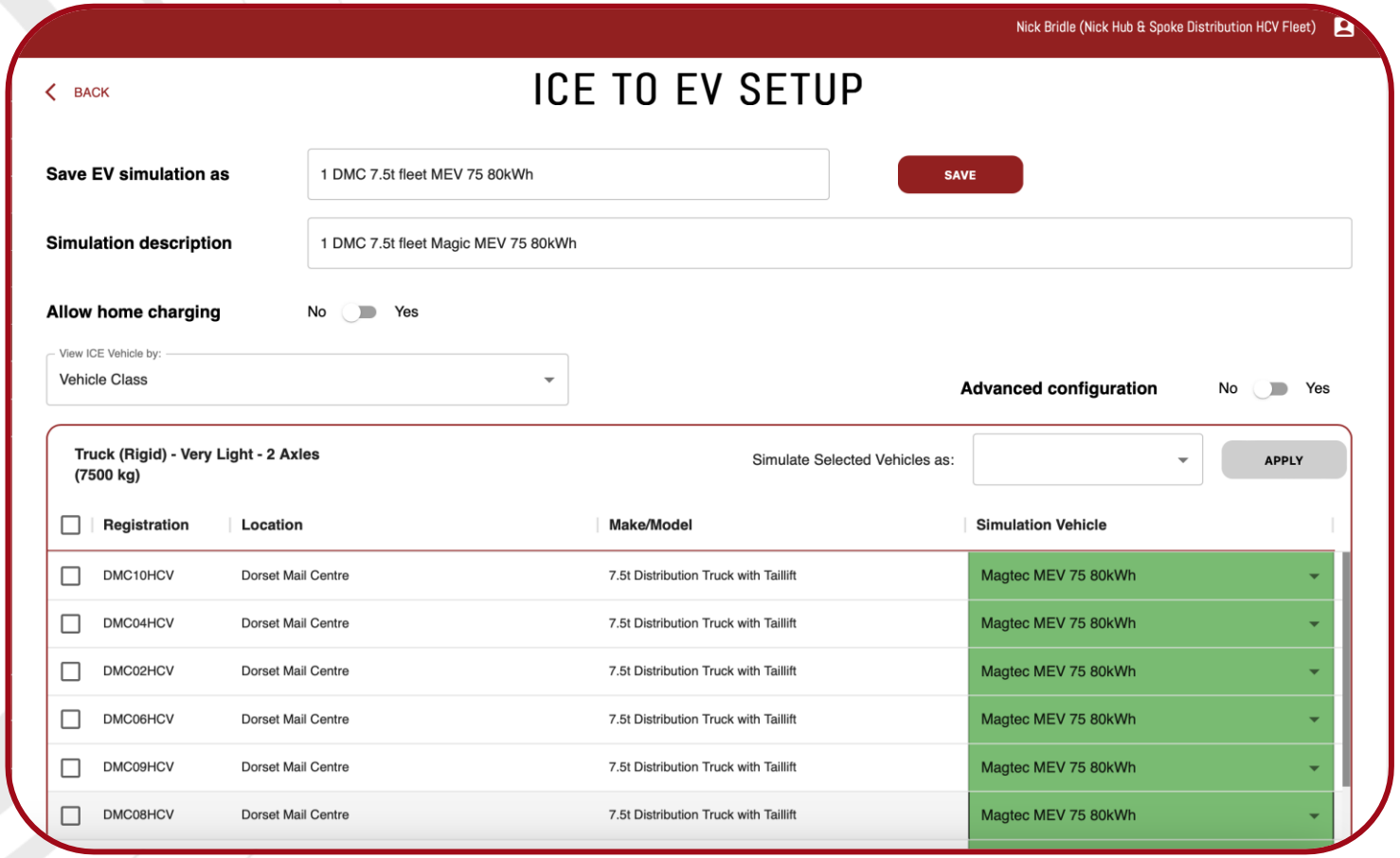


ICE to EV Selection

Use ZERO to **choose the best EVs for your specific operation**. Make sure EVs can do the work required, but don't have overly sized batteries causing unnecessary costs.

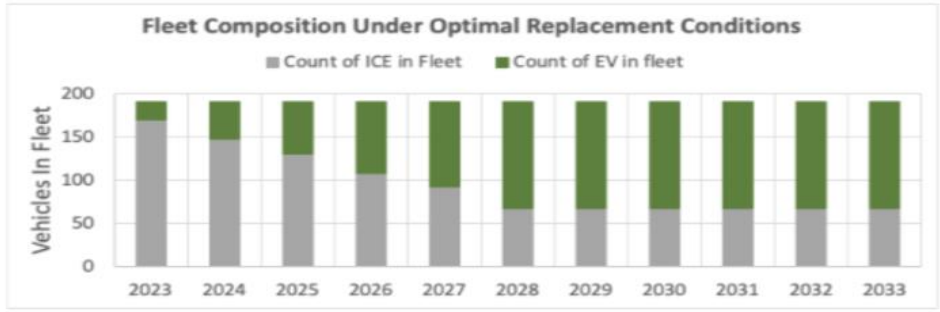
Analyse the performance of any commercial EV in any fleet operation by accessing a validated database of electric vehicles.

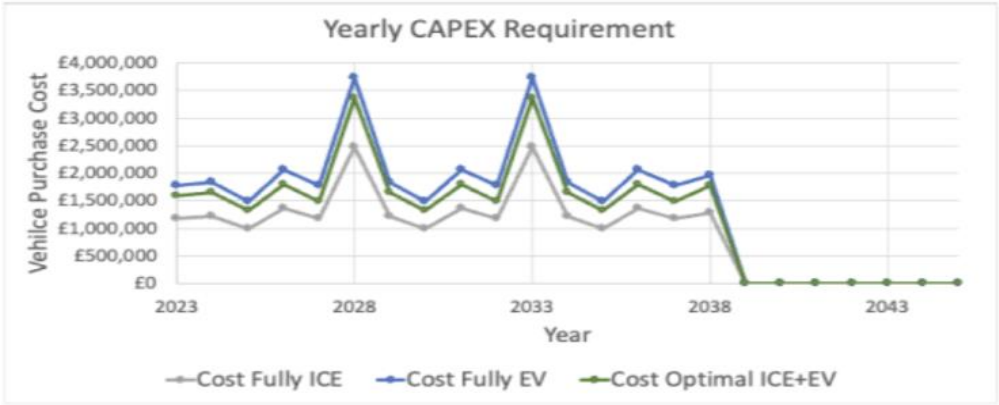
ZERO provides **real-world EV performance insights** considering specific vehicle configurations, modifications, fleet operations, driver behaviour, road conditions, weather, vehicle payloads, and auxiliary power consumption (e.g., refrigeration units and tail lifts).



Fleet Decarbonisation Plan - Operational Cost Baseline

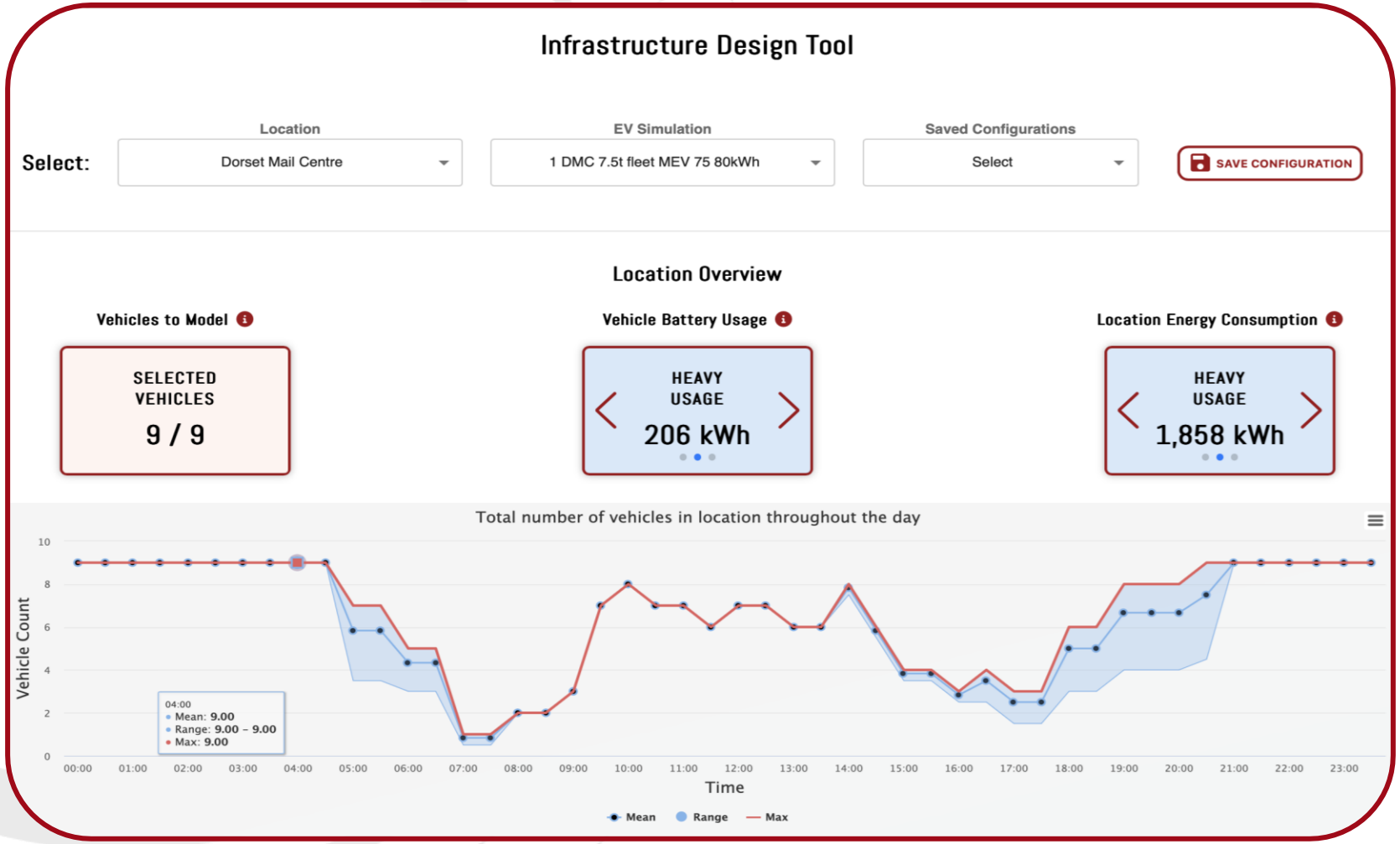
Tabular Results | TCO Overview | Rollout Strategy | Fleet Costs





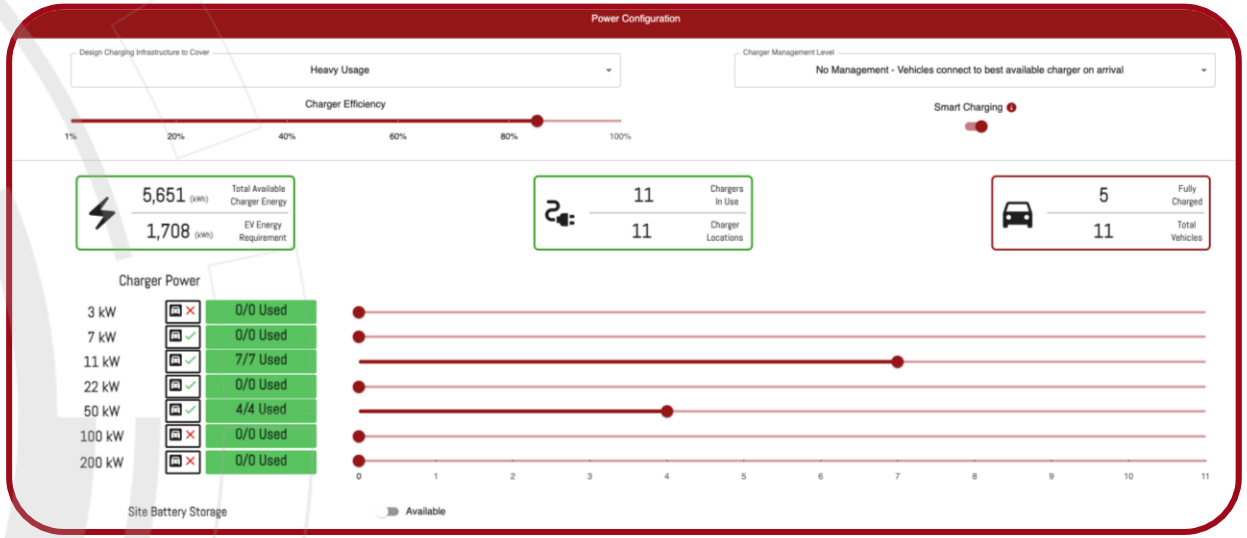
4. Optimized Charging Infrastructure Design

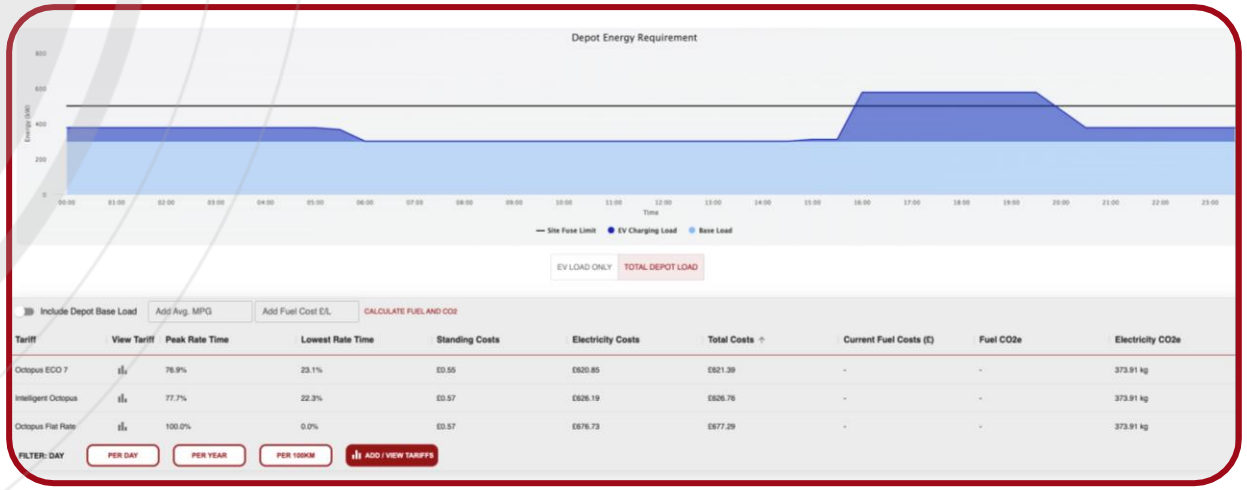
Infrastructure Design – Depot Charging



Infrastructure Design – Depot Charging

- ✓ Design infrastructure to support charging requirements
- ✓ Analyse projected electrical load throughout the day
- ✓ Find the optimum tariff for your unique charging profile





Questions

- Is your council planning to have a fleet review in the next 12 months?
- Will this also involve a review of depot charging infrastructure?
- Do you have a fleet transition/replacement decarbonisation plan ?
- How many EVs does your council plan to have in by 2030 ?
- How many other LEV will the council have ?
- How can Dynamon help ?

Contact

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If you would like to connect, learn more about our software tools and discuss your requirements please contact:

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