# Powering a New Era of Mobility
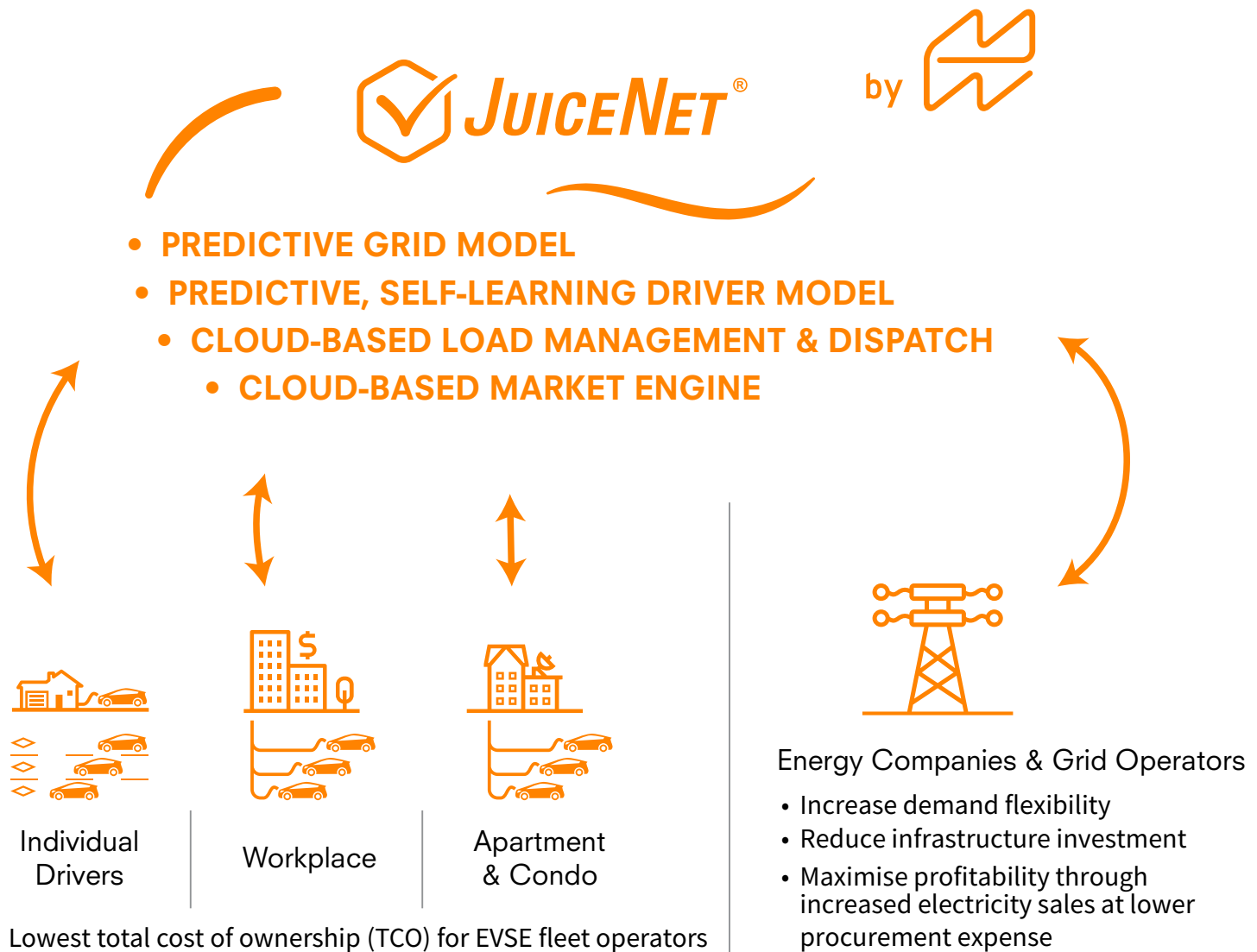
JUICENET®
SMART [GRID] EV CHARGING

## The Energy Services Platform For EV Charging, Renewables, and Other Flexible Loads

eMotorWerks' JuiceNet provides the industry's first and only platform to address the need to flexibly manage grid demand from high capacity EV charging. Already controlling more load than any other network, JuiceNet is licensed by Automotive OEMs and EVSE Manufacturers, and suppliers of other relevant electric loads. JuiceNet balances energy supply and demand, providing real-time demand flexibility to the grid and optimising the economic value of distributed energy resources.

# Universal EV Charging Through Grid Services

JuiceNet generates long-term grid services revenues by aggregating distributed energy resources (DER) and offering energy companies and grid operators a flexible resource for modulating demand. Initially offered for the rapidly-growing EVSE market, those grid revenues help offset the expense of building out universal charging infrastructure.



**JuiceNet®** by

- **PREDICTIVE GRID MODEL**
- **PREDICTIVE, SELF-LEARNING DRIVER MODEL**
- **CLOUD-BASED LOAD MANAGEMENT & DISPATCH**
- **CLOUD-BASED MARKET ENGINE**

Individual Drivers | Workplace | Apartment & Condo

Lowest total cost of ownership (TCO) for EVSE fleet operators

Energy Companies & Grid Operators
- Increase demand flexibility
- Reduce infrastructure investment
- Maximise profitability through increased electricity sales at lower procurement expense
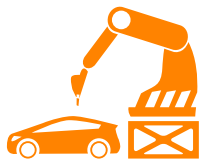
Through machine-based self-learning algorithms, the JuiceNet cloud platform accurately predicts the power and energy needs of the grid, the range needs of vehicle owners, and the environmental factors that impact both, then elegantly modulates the time and rate of EV charging to optimise grid needs and avoid driver inconvenience. These capabilities are matched to a market engine that captures the value of demand response, ancillary service obligations, and other power grid needs, thus creating daily benefits to JuiceNet OEMs, energy companies, grid operators, and EV Drivers.

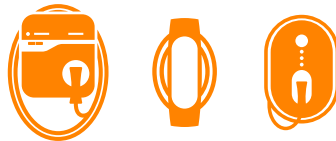# A Flexible Platform for Shiftable Loads

## JuiceNet can be made available via:

- Software-as-a-Service (SaaS)
- Hardware plugins for existing third-party EVSEs
- JuiceBox® EVSE hardware & firmware reference design

## JuiceNet OEM Licensees Include:

| EV Manufacturers | EV Supply Equipment (EVSE) Manufacturers | Suppliers of Other Load-shiftable IoT Devices |
|---|---|---|

## JuiceNet Channel Partners

JuiceNet partners include manufacturers and developers of renewable energy products and services for which JuiceNet optimizes system economic value by:

- Scheduling loads to optimize renewable generation & storage vs. energy company tariffs
- Reducing demand charges via Building Energy Management System (BEMS) coordination
- Generating revenue from demand response (DR) & ancillary services

| Solar PV | Storage | BEMS | DR Aggregators |
|---|---|---|---|

eMotorWerks offers the first and only energy services platform for smart-grid EV charging, having pioneered North American retail and wholesale EVSE energy market participation since 2015. eMotorWerks is now being positioned as a market leader in Smart Grid charging throughout Europe. Our SaaS platform is architected to support EV industry communication standards such as OCPP, SAE J1772, IEC 62196, 15118, and OpenADR as well as other API-based communications and control systems.



JuiceNet was first deployed with eMotorWerks' JuiceBox charging station, and is indisputably the proven market leader in connected, mobile app controlled, high-performance EV charging stations. Shipped to over 30,000 customers globally, our rapidly-growing EVSE network represents over 100 MW of aggregated flexible demand capacity.

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