ALTERNA MOTO

engineering

PERSONAL ELECTROMOBILITY

GLOBAL WARMING SOLUTIONS, INC.

PERSONAL E-MOBILITY

Urbanization

Parking problem

EV popularity

ADVANTAGES:

- Fast return on investment.
- Compact and functional for a wide range of consumers.
- Minimal negative impact on the environment.
- Ability to integrate into the urban environment.

LIMITATIONS:

- Consumer behavior (theft and vandalism).
- Climate of major cities and seasonality.
- Lack of urban infrastructure.
- Quality of roads.

BUSINESS MODEL

RETURN ON INVESTMENT

Our model implies a quick return on investment through leasing and long-term rentals.

INTEGRATION

A complete solution for the urban city's infrastructure with continuous monitoring of requirements and development of standards for all products, including third-party Original Equipment Manufacturers.

NATIONAL NETWORK

Unified management and monitoring standards which takes into account regional specifics and development through franchisees.

MARKET SIZE

Today, the market size is about 5M units, and the potential in the USA is up to 400K in the next 2-3 years. Other world segments have a potential reaching up to 600K per year.

SEGMENTATION

So far, we've identified four key segments and are further developing additional market segments that will position Alterna growth in the demanding personal e-mobility space.

ROUTING

With our BANTgo partner APP, we will be able to include all Alterna electric vehicles within the city's transport and rental networks.

rental networks.

COURIERS/MAIL

Increase the efficiency of delivery / courier companies of postal services through the use of affordable and reliable products from AM Alterna Motors with the possibility of year-round

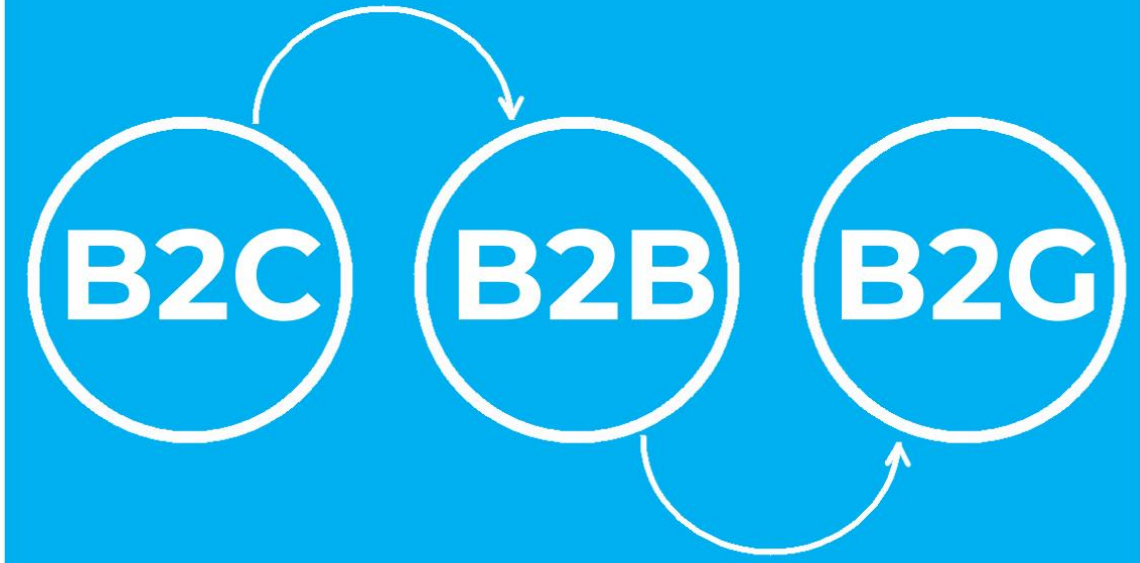
URBAN SERVICE

Special design for use by numerous municipal utilities and control services.

MICRO SHUTTLES

A series of light weight vehicles for use as shuttles and corporate transport in large enterprises of the L7 (LSEV) category.

NEW TREND PERSONAL E-MOBILITY



Our goal is to create a full-fledged, fast-adapting ecosystem of electric mobility vehicles, including the charging stations, e-lockers near transport hubs, as well as integration with urban transport systems (including payment systems). This is the key to a successful sharing model.

Our partnership with GWSO group companies has positioned Alterna Motors with all the necessary resources and cross-functional expertise to capture the opportunity in the fast-growing electric mobility market.

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AM-BATTERY

TECHNICAL PARAMETERS

Type battery	- Na-O2
Anode material	- Sodium
Weight	- 2X less than Li-ion
Charge time	- 2X less than Li-ion
Production price	- 2X less than Li-ion

The company is in the process of developing a Na-O2 type battery that will increase the average city driving range of their EVs up to 200 miles on a single charge of a 48V. The Na-O2 battery uses sodium instead of lithium as an anode material. This significantly reduces the cost of producing batteries.

The use of air oxygen as a depolarizer makes it possible to reduce the mass of the battery by almost 2X compared to lithium-ion batteries. In addition, air passing through the cathode cools the battery during discharge which automatically maintains and controls temperature.

When the battery is charged with an electric current, oxygen is released into the atmosphere. At the same time, the battery charging time is 2X less than that of lithium-ion batteries of the same capacity.

AM-2

TECHNICAL PARAMETERS

Weight	- 135 lbs.	60kg
Size	- 60/33/54"	1530/850/1380mm
Type battery	- Na-O2	
Battery voltage	- 48 Volt	
The battery capacity	- 20 Ah	
Maximum range	- 145 ml	230km
Top speed	- 37 mph	60 km/h
Maximum load	- 330 lbs.	150kg
Power motors	- 2 kW	
Charging time	- 3 hours	

AM-3

TECHNICAL PARAMETERS

Weight	- 220 lbs.	100kg
Size	- 75/26/67"	1895/660/1690mm
Type battery	- Na-O2	
Battery voltage	- 48 Volt	
The battery capacity	- 40 Ah	
Maximum range	- 145 ml	230km
Top speed	- 37 mph	60 km/h
Maximum load	- 440 lbs.	200kg
Power motors	- 4 kW	
Charging time	- 3 hours	

AM-4

TECHNICAL PARAMETERS

Weight	- 770 lbs.	350kg
Size	- 98/45/66"	2500/1150/1680mm
Type battery	- Na-O2	
Battery voltage	- 48 Volt	
The battery capacity	- 100 Ah	
Maximum range	- 180 miles	290km
Top speed	- 50 mph	80km/h
Maximum load	- 660 lbs.	300kg
Power motors	- 8 kW	
Charging time	- 3 hours	

- Food & Beverage Delivery
- Airport And Train Station
- Tourism Businesses
- Mail Delivery
- Large Industrial Facilities
- Police and Patrol Services
- City Utilities

BASIC USERS

- Individual Transport (Light Duty Vehicle)
- Last Mile Delivery (Light Duty Vehicle) *
- Last Mile Delivery (Medium Duty Vehicle) **

* tow bar + sealed trolley as an option / ** AUTONOMOUS DRIVING as an option

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