

## CityQ – new vehicle and share riding to replace car traffic and enabling car free cities

Nordic is innovating within Urban Mobility. Norway has become the no 1 market for EV adoption. The adoption of ebikes is maturing quickly in both Norway and Sweden (almost 150,000 units in 2017). European ebike growth appr 20% annually, expected to reach 2,5millions ebikes sold annually by 2025.

**CityQ** is a high end year-round ebike, with weather protection, 4 wheels, capacity of 3 persons, plus baggage. It's categorized as ebike – enabling comfort, weather protection, solar panel, prepared for high end pools and multi-vehicle share riding in Northern Europe. The vehicle includes app for booking, tracking and charging – as well as connectivity.

With AVIS and multiple car sharing partners – CityQ showed it's first version at EVSummit in Oslo 1<sup>st</sup> February 2018 – and plans to be delivered through partners by end of 2018. Besides Nordic region, Germany, Benelux and UK will be key markets.



### CityQ – Nordic LEV for bad weather and urban mobility in car free areas

“Cities cannot simply expect to replace car driving with cycling when there are 239 days with rain and frost. We need to make cycling dry and comfortable year-round. CityQ is made for urban citizens and companies to bridge the gap of individual transportation between ebikes and cars,” according to Morten Rynning, CEO of CityQ.



The vehicle is registered as a cargo ebike to be used in bike lanes and car free areas. It's required to peddle and has an ebike 250-500 W engine with max speed of 25km/h. The window and roof give substantial weather protection, and side doors can be added.

Also, an additional feature is the roof solar panel to add more mileage without charging. The range without solar panel is 70-100 km.

CityQ can replace all those short car trips such as delivering children on way to job, shopping, after-school activities or getting around in car free areas. And a growing target group is millennials not having driving licenses.

Mobility is becoming a hot topic for innovation and pilots in Norway, according to Henrik Hatlebrette in MobilityLab – a network of mobility vendors and start-ups.

As Oslo and other cities across Northern Europe close parts of inner cities for car traffic – and remove parking options; CityQ represent an alternative to get around for companies and its employees.

CityQ works with European partners both for development, assembly and market distribution. The vehicle will has launched an Innovation Partner Program and are searching for new German and European partners to join this program.

#### Concept of CityQ:

Making a year-round ebike with the capability and comfort to replace car traffic in cities.

#### For more information:

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**CityQ** – vehicle and MaaS service to replace car traffic with bicycling. [www.cityq.biz](http://www.cityq.biz)  
**CityQ** – high end, year-around LEV for Northern Europe climate. And for Mobility sharing pools. [www.CityQ.no](http://www.CityQ.no)  
**NUMI** – Nordic Urban Mobility Innovation – [www.nordicmobility.info](http://www.nordicmobility.info)

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## Urban Mobility services that can replace car traffic

**As most car trips are short** - available ebikes and new light electric vehicles like CityQ can replace almost 70% of car trips from a residential area, equal to amount of short range car trips. This may reduce both car traffic significantly, as well as a drop of 25% upon CO<sub>2</sub> – pollution. In addition, this may have a significant effect on health

New residential areas are required to make mobility plan – with activities to avoid increase in car traffic (ÅDT). Such plans include share riding replacing private parking. Increasingly such plans include transportation fleet with cars, ebikes and CityQ - in the cost of the flat and rent.



Companies in city centres face restricted access to car parking and search for alternatives to taxi and public transport.

### CityQ

CityQ has been launched as a version zero for showcasing and demos. 1-2 next versions planned to further develop the vehicle and prepare for cost efficient and robust mass production. Up to 50 units planned for to partners in next 12 months. Scaled production planned from 2019:

- CityQ vehicles will be prepared for share riding with app for booking, locking, charging and tracking
- CityQ vehicles planned to be further developed to be smart, data centric – replacing mechanics and connectivity
- CityQ investigating further usage of solar panel to utilize the smart units and improve battery capacity. A partnership with vendor of solar panel will be key in this strategy

CityQ organization is currently based upon good network of external experts – funding will be used to ramp up in-house organization – in both technical team and market team. Management team, being well connected and experienced within urban mobility, bike-sharing, product development, SW-development, digital marketing and multiple start ups

Current partners locally have the potential of up to 2,400 units annually. These relations demonstrates the potential of the market. Further partnering in Northern Europe will prepare for a market entry in 2019.

### Current CityQ specification (may be adjusted):

Price range:	Mostly rental. If not – price Euro 6-6,500 ex VAT
Capacity:	2-3 persons, including driver
Cargo:	Lockable space approximately 40l, plus additional 60l compartment
Max Speed:	25km/h
Range:	70-100km - with 1-2 batteries
Engine:	250-500W Bafang CentralMotor.48V
Battery:	1-2 batteries
Charging:	Plugin cable 48V/220V
Solar panel:	Extra - 75W/h
Wheels:	4 wheels 24" (extra: winter tires)
Length:	226cm
Width:	87 cm
High:	155cm
Weight:	60-65kg
Drive:	Back axle
MaaS App:	Locking/tracking/booking
Side doors:	Extra – side doors covering. Doors rotating upwards
Classification:	Ebike - similar to Cargo ebike, not requiring type approval R168/2013. Nor driving license. In line with the EN15194, but with more wheels than a regular ebike

