
Decarbonisation in East Asian Cities

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What is the silver bullet for?

E-mobility
uptake.

*Full steam ahead
or stagnant?*

The nexus.

*Zero Emission
Venture*

Shared mobility.

*For whom and by
whom?*

E-mobility uptake.

Full steam ahead or stagnant?

Electric two wheelers: gogoro



- Sold 145,678 e-two wheelers (or e-scooters as they are called in Taiwan) in 2019
- Accounted for 16% of the market share in 2019
- Between January and September 2020, sold only 8,199 e-two wheelers
- Account for only 7.9% of the market share



Factors

- Subsidies
 - ending this year
 - Battery swapping technology
 - should it be the future?
 - Fare schemes
 - Flat rate? Pay as you drive?
 - Range anxiety
 - Battery swapping stations and grid
 - Customer service
 - Maintenance fee, professional knowledge
 - Does green purchase mean green knowledge?
-



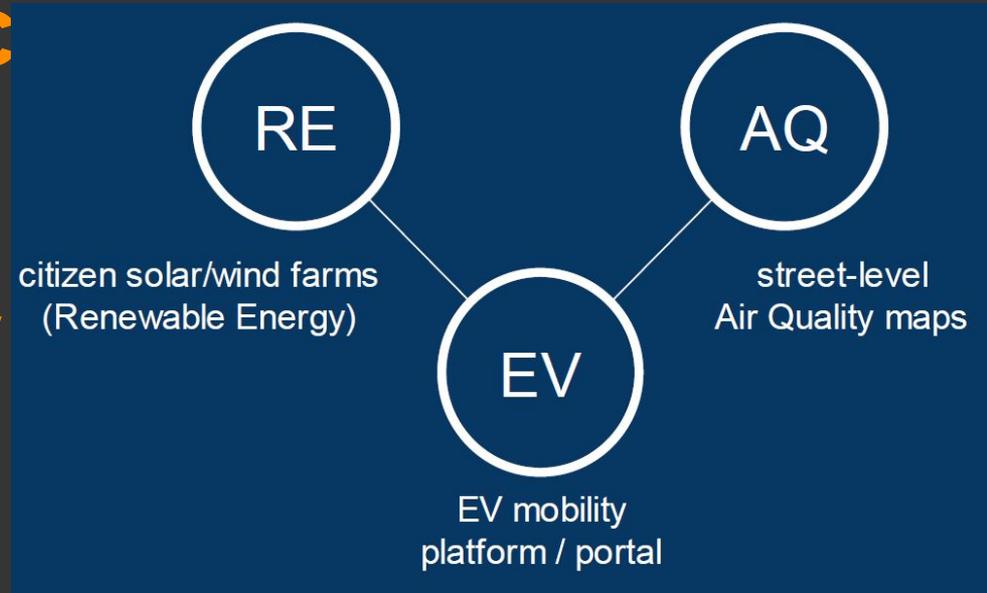


At the end of the day, it's a mode of transport than a type of consumer electronics.
There is still the **urban mobility problem**.

The nexus.
Zero Emission Venture

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The **nexus** of **electric vehicles,** **renewable energy** and **air quality**

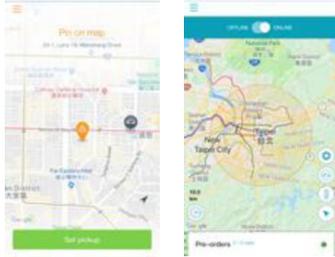


Credit: Zero Emission Venture; ZEV City

The nexus



ZEV City/ZEV Taiwan



EV Mobility Platform

- B2B based ridesharing system
- EVs only



car-based air quality sensor



Air quality monitoring

- Improving government regulations
- Supporting urban planning
- Raising public awareness

Renewable energy incentives

- Local solar/wind farm
- Blockchain
- Community engagement
 - People in need
 - Better social returns



Positive feedback loop for air quality awareness, renewable energy incentives, hence cleaner electric vehicles.

Shared mobility.
For whom and by whom?

Shared mobility: car-sharing

“嘜嘜共乘”



- **Public transport deprived areas**
 - Villages in rural areas
 - Villages in mountainous areas
 - **People who cannot drive or need mobility assistance**
 - School students
 - Parents
 - Older people
 - People with mobility and/or cognitive impairments
 - **Complementary to existing public transport network**
 - **Last mile connectivity**
 - In some areas, people walk 40+ minutes to the nearest bus stop
-

“噗噗共乘” car-sharing



- **Initiated by the national government**
 - **Horizontal integration**
 - Ministry of Transportation and Communications
 - Ministry of Health and Welfare
 - Ministry of Education
 - Council of Indigenous People
 - **Stakeholder engagement**
 - Informal operators
 - Local communities
 - Hospitals, schools, local businesses
 - Corporate Social Responsibilities: Airlines, Telecommunication companies, postal companies, etc.
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The benefits

Reducing number of trips

Improving road safety

Affordability

Reducing CO2 emissions

Social equity - access for all

Creating jobs

花東地區智慧交通便捷經營輔導計畫

交通部 Kainaskalan tu tundazaan
嘜嘜共乘 試營運期間 免費搭乘!

讓您往來卓溪、玉里安心搭乘的幸福小巴

服務方式	服務時段
<ul style="list-style-type: none"> 於搭車日前1~7天預約叫車 滿 2 人共乘則預約成行，於搭車前 1 日告知您媒合結果！ 	<p>5月1日起</p> <p>每周三全日</p> <p>◆未來將陸續開放其他服務時段！</p>
服務範圍 (社福巴士南線範圍)	預約方式 (採預約制)
<p>玉里市區</p> <p>古風村 卓清村 卓溪村</p> <p>卓溪南部</p> <p>卓溪公所</p> <p>石坪</p> <p>◆未來將陸續開放其他卓溪村落！</p>	<p>免付費預約專線 0800-005-978</p> <p>花東Car-EZ嘜嘜共乘-卓溪 Line線上預約</p> <p>各村辦公室皆可協助預約</p>

花蓮縣卓溪鄉公所
 服務地址：花蓮縣卓溪鄉卓溪村中庄23號
 服務時間：週一至週五 09:00-17:00 (國定假日除外)
 服務電話：03-8893118 傳真：03-8893422

主辦單位：交通部技術顧問、交通國際工程顧問
 協辦單位：卓溪鄉公所、交通國際工程顧問股份有限公司
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Get in touch!



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