
Decarbonisation in East Asian Cities

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Daring Cities 2020 · 16 October 2020

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?
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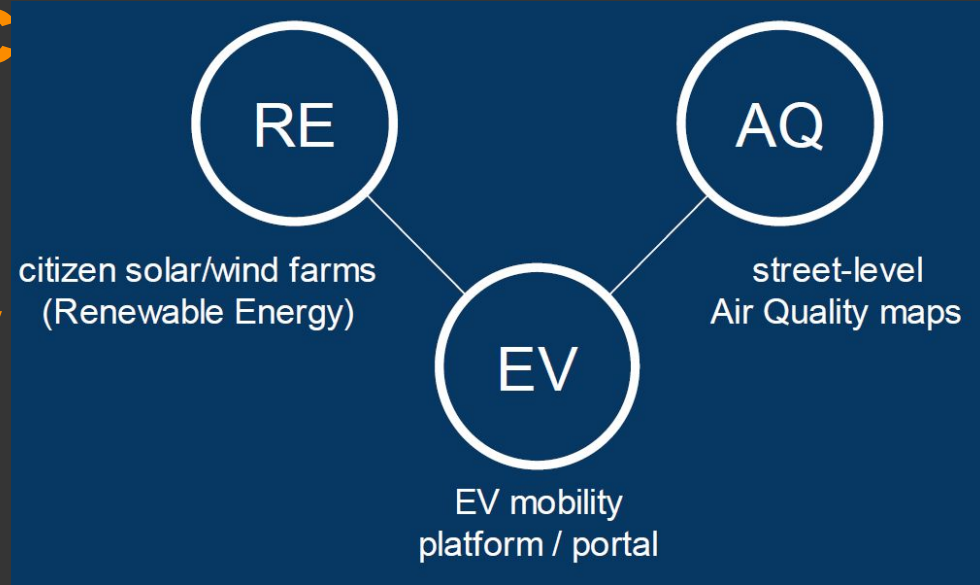




At the end of the day, it's a mode of transport than a type of consumer electronics.
There is still the **urban mobility problem**.

The nexus.
Zero Emission Venture

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

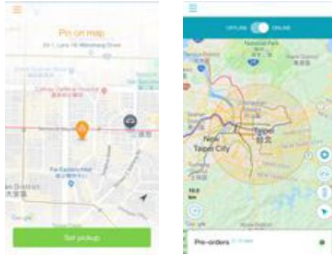


Credit: Zero Emission Venture; ZEV City

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

“嘆嘆共乘”



- **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
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“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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Creating jobs

Get in touch!



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