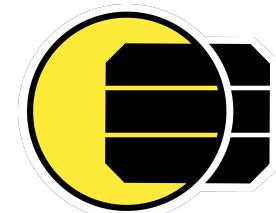




Tales from trying to improve transportation in the Philippines



We provide solar electric shuttle services



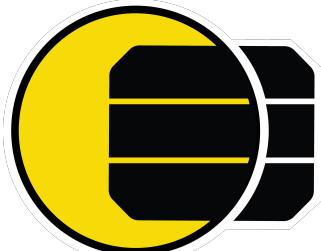
with

CLEAN ENERGY THAT MOVES PEOPLE

The sunE difference



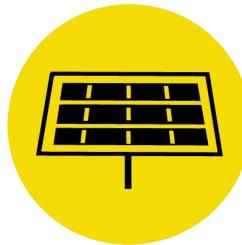
sunEcloud



sunEoperations



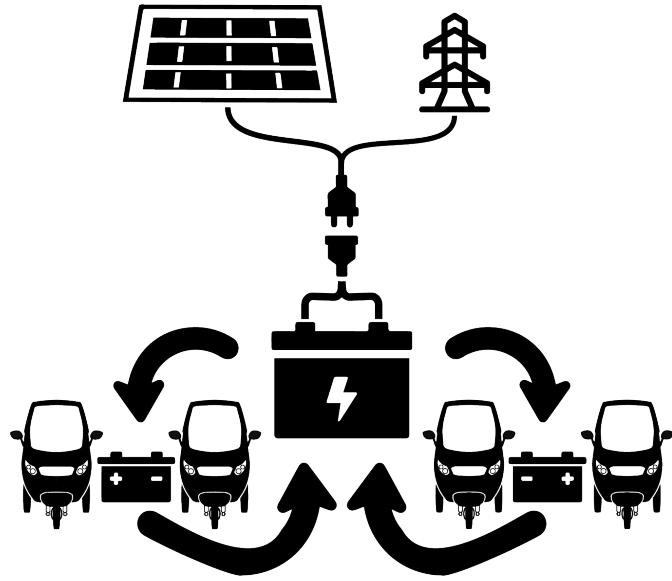
sunEstrike



sunEsolar



sunEstorage



The sunE system is an integrated package that allows entrepreneurs without prior Renewables or Electric Vehicle experience get started with an expected Profit & ROI



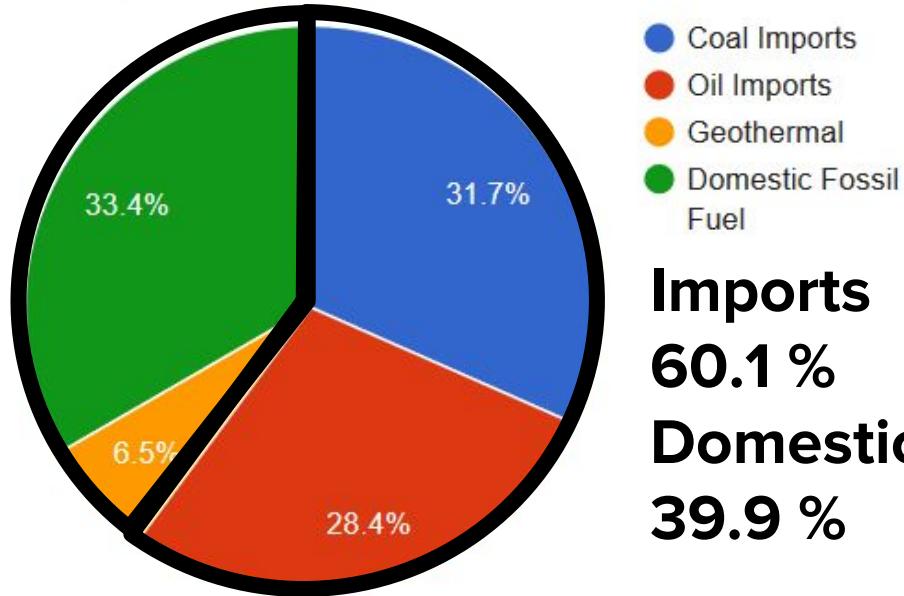
- Above-average stable wages
- Job security
- Access to healthcare and other government services

What it means for Drivers and other staff

ASEAN/Philippines Energy Mix

- Highest energy costs in Asia
- Transmission Losses = 10% usage
- > 5000 islands (micro-grids)

Energy Imports vs Domestic Production - 2012



Market Segment - Low speed (Electric) Vehicles



These LSEVs will replace ICE vehicle over the next 10 to 20 years

50% YoY growth in China

350,000 projected for 2017

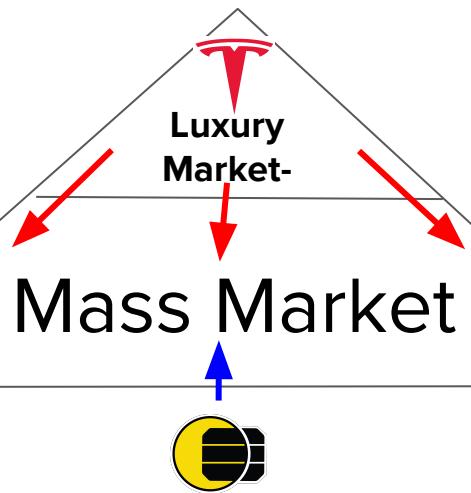
3 & 4 wheel LSEV



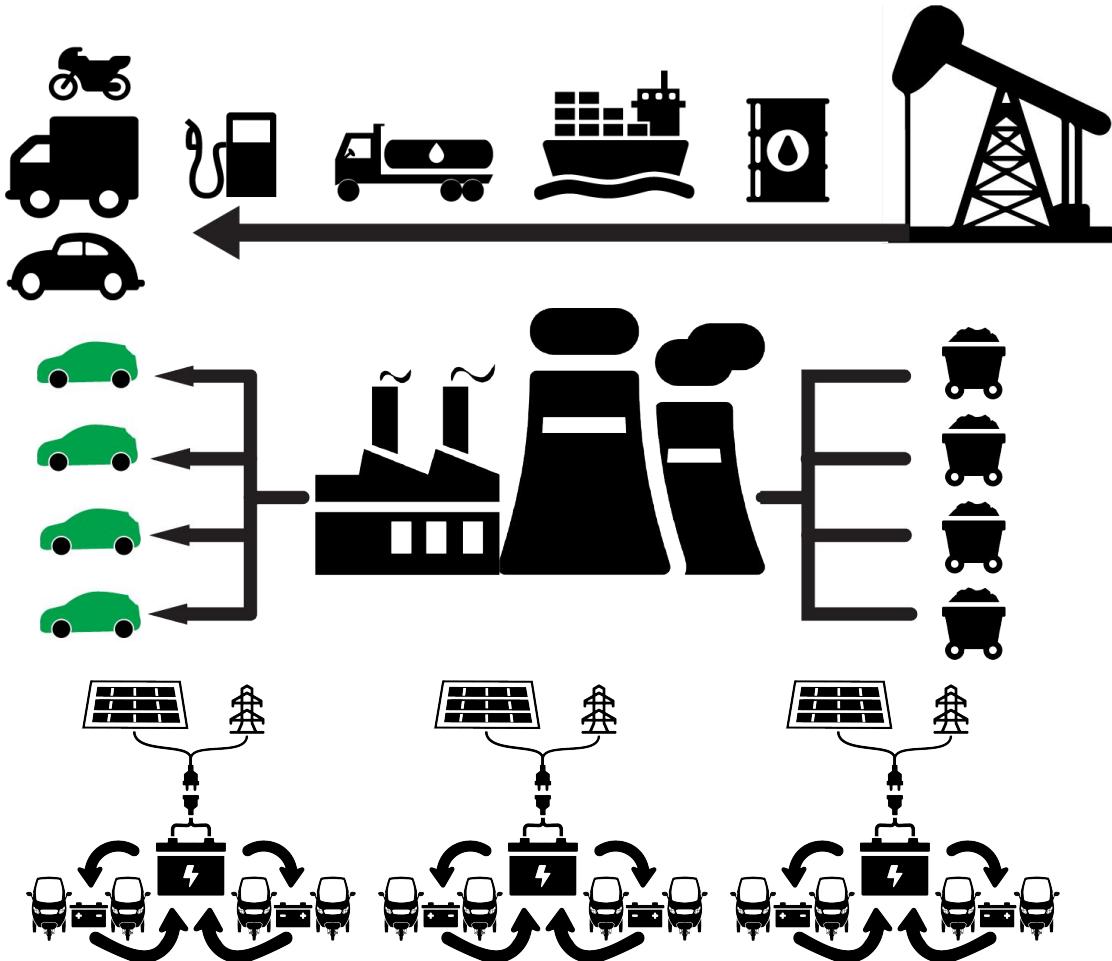
~500M Globally

*800,000/yr sold by leading Gas-Rickshaw manufacturer

*65% of business globally will buy EV -Bosch



CAPEX	OPEX
LOW	HIGH
MID	MID
HIGH	LOW



Institutional & Market Responses



ADB & DOE USD500 million

4 years to develop.

**PROJECT SCRAPPED
only 3000 vehicles built**

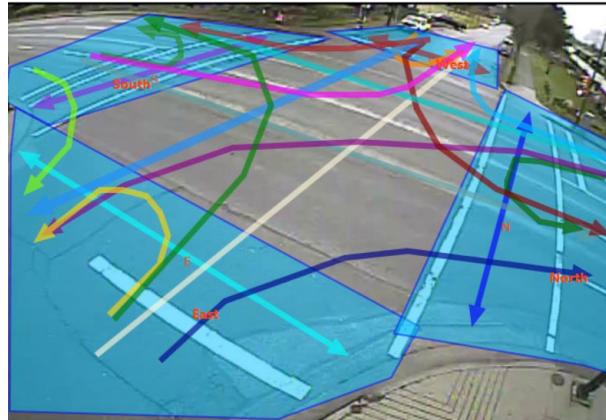


Private electric
vehicle dealerships

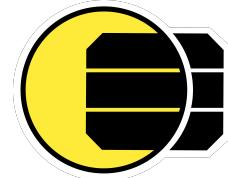
BUYER BEWARE!

Smart Transport Calabarzon

Traffic Management Planning & the PUJ Restoration program



2018 SMART
INFRASTRUCTURE
CHALLENGE





ASIAN DEVELOPMENT BANK

Founded: 1963

HQ: Manila, Philippines

151b in Capital

\$20.1 B

Loans, Grants, and Others

\$201 M

Technical Assistance

\$11.9 B

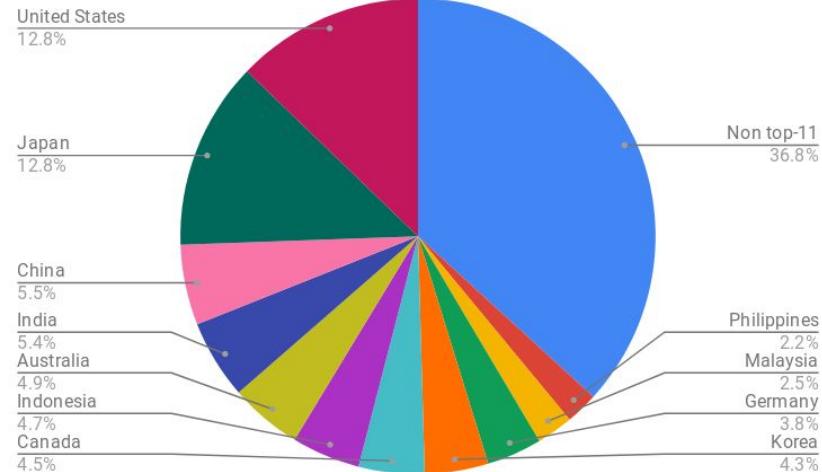
Cofinancing, incl Trust Funds



List Of Presidents

Name Dates Nationality

Takeshi Watanabe	1966–1972
Shiro Inoue	1972–1976
Taroichi Yoshida	1976–1981
Masao Fujioka	1981–1989
Kimimasa Tarumizu	1989–1993
Mitsuo Sato	1993–1999
Tadao Chino	1999–2005
Haruhiko Kuroda	2005–2013
Takehiko Nakao	2013–



P3 Financing

- Became more popular after the Asian Financial Crisis (1990s)
- Rep of Korea has the most successful cases

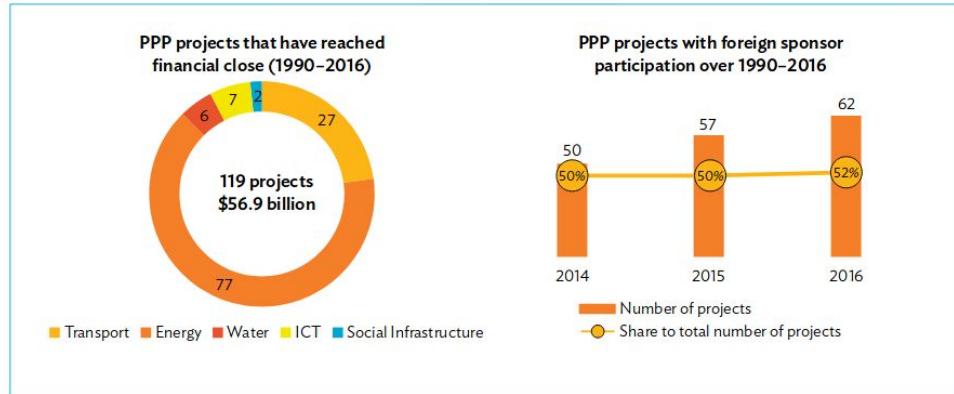


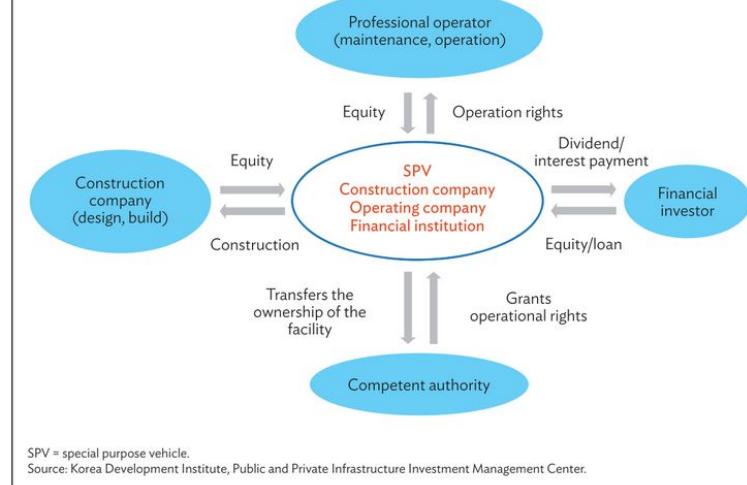
Table 5: Net Benefits from Public–Private Partnerships in the Republic of Korea, 2012

Sector	Number of Projects	Total Benefit (Won trillion)	Total Cost (Won trillion)	Net Benefit (Won trillion)
Road	18	8.79	6.36	2.42
Environment	9	1.37	1.18	0.19
Culture	2	0.72	0.62	0.10
Rail	2	2.97	3.04	-0.07
Others	2	0.90	0.92	-0.02
Total	33	14.74	12.11	2.63

Note: Total benefit is based on a feasibility study of a certain project and estimated as the cost savings or time savings from implementation of a certain project. Users' benefit from using the facility is one of the expected benefits.

Source: Korea Development Institute. 2014. *Comprehensive Evaluation on Public–Private Partnership Projects in Korea*. Sejong.

Figure 1: Basic Structure of Public–Private Partnership in the Republic of Korea



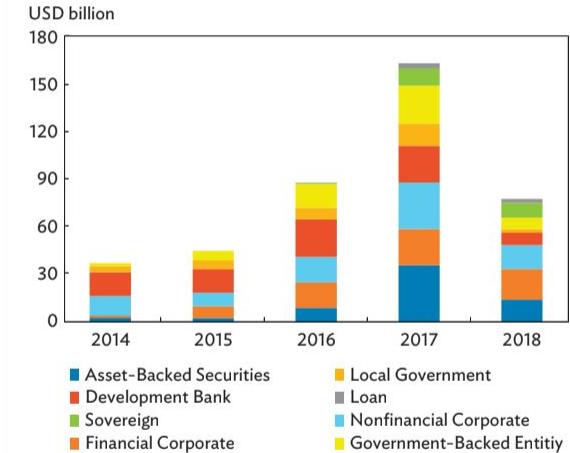
Green Bonds

Green bonds are a key tool for governments to raise capital to implement emissions reduction and new infrastructure plans in line with their Nationally Determined Contributions as set out in the Paris Agreement—the commitment to keep global warming to a maximum of 20C.

Energy - 35%, Buildings - 30%, Transport - 16%



Figure B2.2: The Green Bond Market by Sector



Note: Data for 2018 through first half of the year only.

Source: Climate Bonds Initiative.





Wildfires are intensifying in Western Canada in recent years according to researchers. (Tracy Calogheros/Facebook)

Forest fires in British Columbia worst ever this summer

By Carmel Kilkenny | english@rcinet.ca

Thursday 30 August, 2018 , 2 Comments ↓

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FOUNDATION

When I was flying around the world in my solar airplane, I remember looking at the sun that was giving energy to my four electric motors and their huge propellers. There was no noise, no pollution, no fuel... and I could fly forever.”

Bertrand Piccard





THAT'S ALL FOLKS!