

AGL New Energy

Focusing on comfort, convenience and control for our customers

NEW=NERGY

Create 1 million smart connections across homes and businesses by 2020

Become preeminent customer choice for Competitive and Connected energy products and services that provide Convenience, Comfort and Control

Large Commercial
Distributed Heat & Power

Transport LNG & CNG

Digital Metering

Electric Vehicle Services

Small Commercial
Distributed Heat & Power

Embedded Networks

Distributed Generation

Home Energy Management

Commercial Service & Repair

Demand Response

Energy Storage

Emerging Technologies



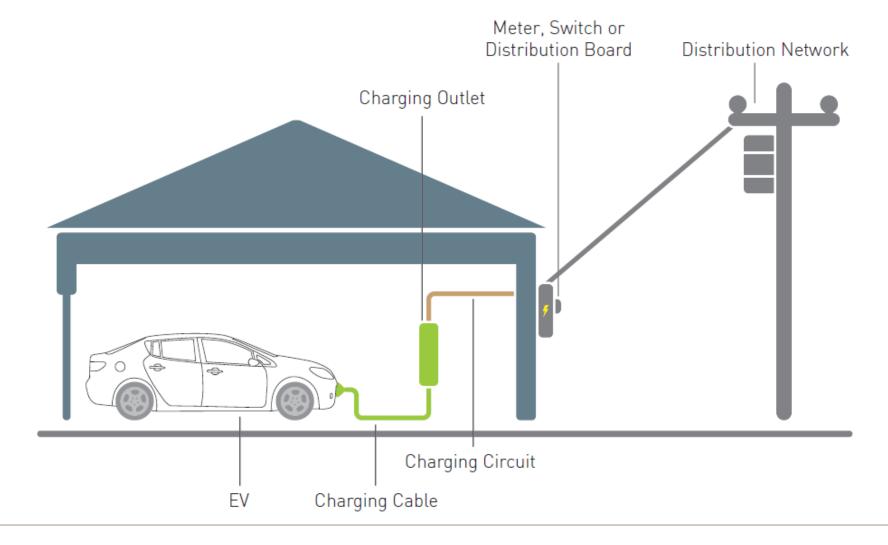
> The Connected Electric Car

> Aust Energy Productivity Summer Study

> 26 February 2016

Plug-in Electric Vehicles

At least some energy from an external source of electricity

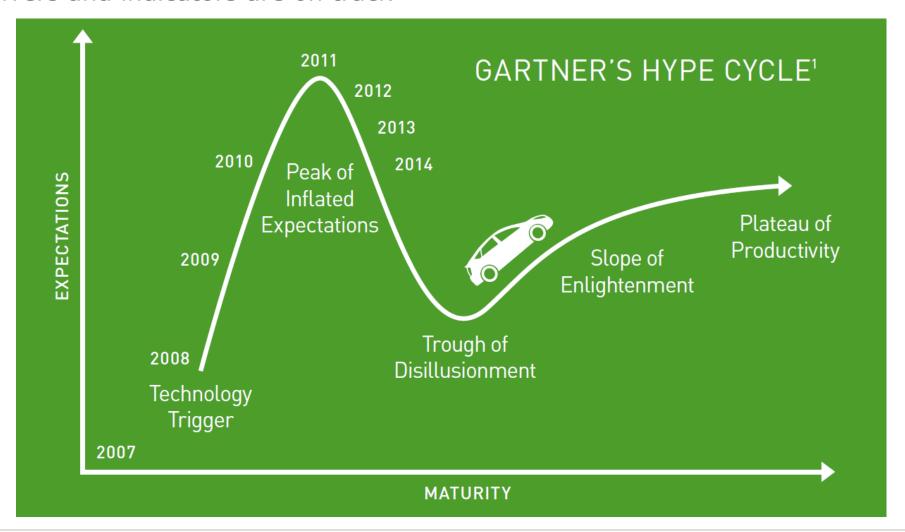


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EV market is heading in the right direction

Market drivers and indicators are on track

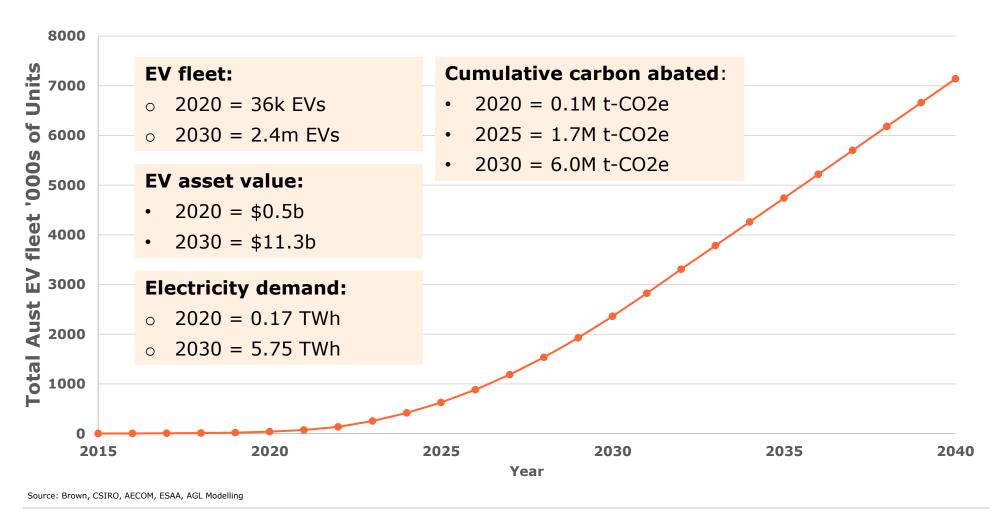


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Australian EV market will be large by 2030

Early-adopter phase now but asset value will grow to \$11 billion



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Near-term outlook for Australia

Supply-constrained but improving nonetheless









MAKE	MODEL	PHEV	BEV	RRP (\$ 000)	FORECAST EV SALES 2016	FORECAST EV SALES 2017	FORECAST EV SALES 2018
Mitsubishi	Outlander PHEV	x		47-52	1000	2500	3000
Tesla	Model S		X	100-200	500	500	500
Tesla	Model X		X	100-200	200	200	200
Mercedes- Benz	C350e	x		80	150	300	400
BMW	i3 BEV & REX	Х	Х	64-70	150	150	150
BMW	330e	X		75-80	100	200	300
BMW	X5 40e	X		120-130	100	200	300
Renault	ZOE		x	25-30	50	200	200
Mercedes-Benz	GLE350e	Х		120-130	50	100	150
Renault	Kangoo ZE		X	40-45	20	20	20
Audi	A3 e-tron	Х		62	30	60	90
Volvo	XC90 T8	X		123	30	60	90
					2380	4690	5600

Government fleet electrification case study

Transition modelled across 3 years

- 7,500 vehicles in total fleet
- Fit-for-purpose substitution model
- Based on Aust EV make/model mix

Attribute	BAU	LOW	HIGH	Unit
No. Electric Vehicles	0	2,479	4,958	Vehicles
Total Fleet Emissions	25.8 kt	19.0 kt	12.2 kt	kt CO2-e / yr
Total Carbon Abated via EV	0	6.8 kt	13.7 kt	kt CO2-e / yr
Total Liquid Fuel Volume	10.6m	7.7m	4.9m	L/yr
Total Fuel Running Cost	\$11.6m	\$9.2m	\$6.5m	\$ /yr
Total Fuel Cost Savings from BAU	-	\$2.4m	\$5.1m	\$ / yr
Electrical Load	0	9.9 GWh	19.9 GWh	GWh / yr
Energy Productivity Improvement	0	17%	34%	rel. to BAU

> The Connected Electric Car

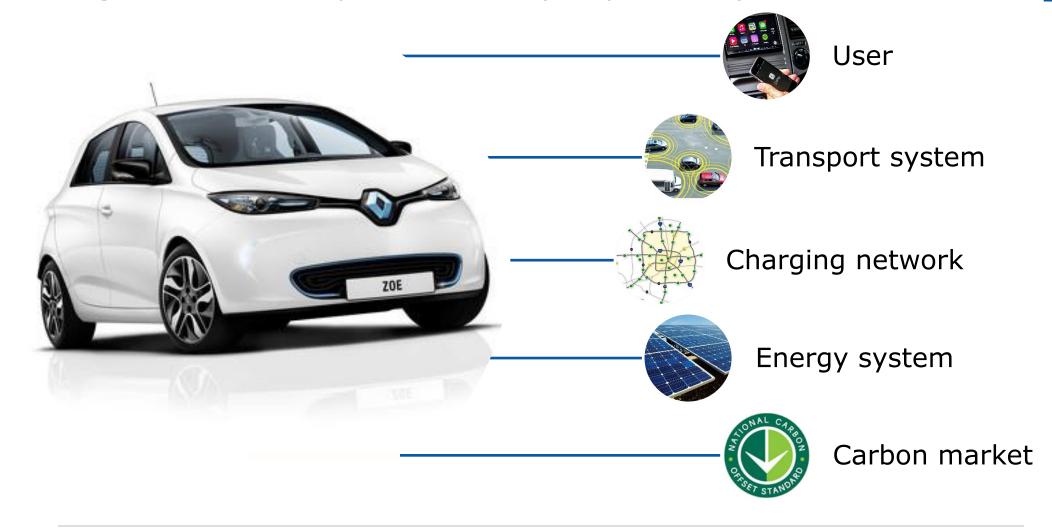


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Connected EVs

System integration across multiple domains will yield productivity dividends



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Want to know more?

Contact me via one of the means listed below

