



OENG1115

Group 20 Presentation

Group Member	Group Member ID	Contribution
Abhishek Kakkar	S3827314	Idea pitching of Technology, Answering Questions
Aditya Prawira	S3859061	Stakeholders information, Presenter
Pranjal Verma	S3814297	Risk Mitigation, Presenter

Project – Light Vehicle Greenhouse Gas Emission

Overview of the Technology

Chosen technology/innovation:

Hypixi Kit (Hybrid Power Intelligent Exchange Drive). It is a system that converts existing fossil fuel - based vehicles into Hybrids.

Main Costumer:

- General Public.
- Automobile Industry

Problem diagnosis:

- Reduce emission by 26% - 28% by 2030 (Commonwealth Australia 2017).
- Bring Australian vehicle in-line with European and US targets of 105g CO₂/km by 2025 (Commonwealth Australia 2014).

Solutions:

- By the implementation of technology the mileage of existing fuel-based vehicles can be improved by 25 %.
- Reduces fuel consumption and reduced CO₂ emission by more than 20%.

Unique selling points :

- Cost of technology is lesser INR 60,000 (AUD 1200) than new hybrid vehicle or electric vehicle.
- Potential for higher energy conservation means wear- tear is less. Hence, lower vehicle maintenance (Savings).
- Can be implemented on existing non-hybrid vehicle.

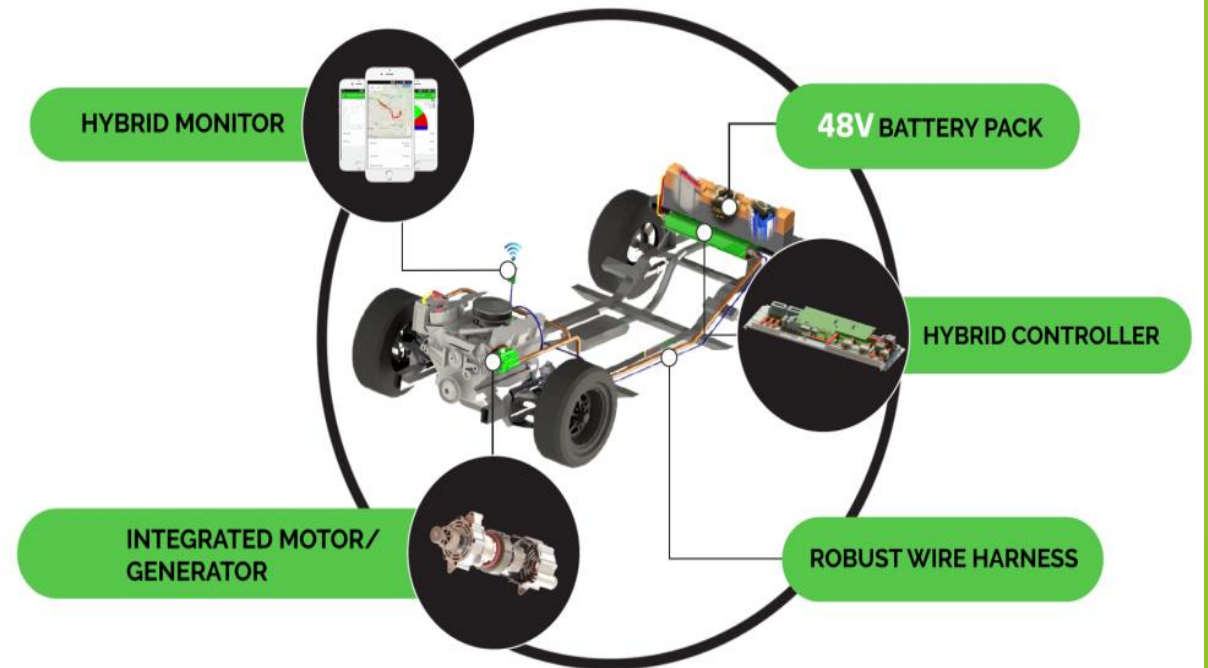


Figure 1. Components of Hypixi Kit (WWF 2019)

Stakeholders And Risk mitigation

Key Stakeholders:

Category	Stakeholder	Management
Internal	Government	Focuses on communication and supervision
	Manufacturing firms	
	Project team	
External	Workers	
	Supplier/distributors	
	General Public	

Risk Mitigation:

Risk Category	Identified Risk	Mitigation Strategy
Market	Technological changes (Availability of new technology)	Continuous update from R&D department to organisation and stakeholder on upcoming technologies
Technical	Alterations in production	Proper production team to schedule manufacturing on a certain product
	Non optimal product quality	Emergency/direct meeting (Technical and project team)
Organisational	Supplier's failure to provide material on time	Improve communication (Administration and logistic department)
Political	Increased cost of raw materials	<ul style="list-style-type: none">Absorb risk.Meeting between the organisation and government (pursue alternative solutions)
	Changes of law policies	<ul style="list-style-type: none">Absorb risk.Meeting between stakeholders and government.

