**CONCLUSIONS**

Mini-Battery System (MBS) would be a plausible technologic breakthrough for Toyota to invest into. This system is composed of an additional small sized emergency battery that only operates when the original battery is completely depleted. Moreover, the system will be incorporated to the vehicle’s GPS system through Toyota specialized web application. This application will provide the driver the location of the nearest battery charging station and send a signal to the nearest road assistance service center to provide towing/car charging services if needed.

A 350 kW solar panel array can be installed on existing fuel station roofs and five parking spaces can be leased, which would produce approx. 500,000 kWh of solar power every year. The total costs of setting up a network of 467 charging stations would cost approx. $48 million. The Net Present Value calculated over a period of three years is $68.4 million.

**REFERENCES**

5. Battery electric vehicle: [https://en.wikipedia.org/wiki/Battery_electric_vehicle](https://en.wikipedia.org/wiki/Battery_electric_vehicle)

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