**In the face of our sustainability challenges:**

* Climate change with higher temperatures, rising sea levels and   
  more extreme weather events
* Biodiversity loss and habitat destruction
* Depletion of natural resources
* Pollution of air, water and oceans

**INDIVIDUAL ASSESSMENT**

NAME/ID: David Chen (z5117378) DEMONSTRATOR: Jacky Feng

List and discuss three steps that you as an individual can take to improve sustainability and increase resilience for the future of Sydney.

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1. Decreasing the use of plastic products – One step I could take to improve sustainability is to reduce the use of plastic such as plastic bags, plastic containers and plastic bottles. A substitute for this would be to use containers which are environmentally friendly. If I were to use plastic as a last option, I would choose biodegradable plastic and products which are BPA free from environmentally friendly companies to ensure that the production and the disposability of the product is not hazardous to the environment and marine life (such as vegware).

2. Reducing power consumption – Another method would be to turning off unused power switches and televisions/monitors which are on standby, as they still draining power. More so, using/buying products which are labelled energy efficient (energy rating) is another way to reduce power consumption to create a more sustainable future. Furthermore, ensuring that the material to make the products are high quality, easy to dispose and recyclable is essential to reduce unnecessary wastage.

3. Electric cars – Finally, another step I could use would be to switch to an EV (electric vehicle) for sustainability. By switching to an EV, it means there is no need for gas, it does not produce emission and reduces noise pollution. For a normal car which consumes petrol, it produces emissions (co2) or smoke which is detrimental to both humans and the earth’s ozone layer, which can have negative consequences. Petrol comes directly from fossil fuels, which is a non-renewable resource; meaning we have a limited amount to use; making it unsustainable to use in the long term. More so, the source of power for an EV (a battery) is recyclable hence the material can be reused to create new and more efficient batteries versus junking the entire car.

**GROUP ASSESSMENT**

GROUP NAME/NUMBER: DEMONSTRATOR:

Relating to your group design project (Progressive Collapse, Energy from Waves, Water for Vanuatu, Remote Sensing Platforms), what steps can you take to improve the environmental impact and sustainability.

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