

Introduction

This report is about the pros, cons and features of electric bikes. As technology advances the modes of transport are enhanced and made convenient. Electric bikes offer various benefits to their riders such as comfort, practicality and they are fitted with speedometers to help the riders track their speed and distance travelled.

Electric bikes

Riders are able to track and maintain records of their progress by downloading a app on to their mobile phones. This app allows them to see where the bike is always, as well as the progress they have achieved while riding the bike such as how far and how fast they have travelled. Electric or smart bikes range anywhere from \$800 at the lower end, and the sky is the limit at the higher range. Due to Electric bikes having many customisable options such as material, battery limit and the overall finish of the bike the prices tend to vary. Most electric bikes that are available in the market can easily exceed speeds up to 25 kmph.

Advantages

- Electric bikes are suitable for short distances such as going to the shops, and longer distances like travelling to work. As the bikes have pedal assistance, where the rider is given an extra boost as they pedal it.
- Electric bikes also offer a health beneficial form of transport as you get a regular amount of exercise as you travel.
- Travelling is convenient and trouble free as traffic jams don't interfere as you can pedal past.
- Electric bikes are eco friendly as they don't have any emissions.
- On a full charge riders can travel with pedal assistance for a range of 40-70 miles.

Disadvantages

- Electric bikes tend to be heavier due to having a battery as well as other electronic devices, which can bring the total weight of the bike alone to 25kg.
- As electric bikes have such valuable material on it there is a higher chance of it getting stolen.
- The maintenance fees on an electric bike are substantially higher when compared to a regular bike.
- The electric battery takes a moderate amount of time to charge.

Types Of Electric Bikes

The main two types of electric bikes would be mountain and road e-bikes. Mountain e-bikes are usually fitted with a gear system like the traditional mountain bike, as well as bigger tyres and stronger suspension along with a few gadgets fit for rougher terrain. Which tends to have a lower top speed when compared to a road bike. Road e-bikes would have a much more practical design which is suited for travelling on the road, which would lead to the road bike having a higher top speed.

Factors That Could Be Considered When Buying A E-Bike

Using any e-bike is a long-term investment, as u are able to save money you would use for petrol, and in the long run you can save on potential medical bills as you can keep some sort of physical fitness.

Most modern e-bikes are foldable, which means if there is a situation where u must transport the bike or take it on a train, you are able to fold the bike in half. Making transporting the bike much easier. The pedals of the bike can also fold when needed.

Some e-bikes also have a USB charging port, which is usually mounted on the handlebar which let's the rider charge their mobile devices as they travel.