



Electric Vehicles & Energy Strategy

Henrietta Stock
Energy & Carbon Manager

9 April 2019



This year...



269,000

Homes



688,000

People served



5,686

Customers received our
50% discount, thanks to
our 'Social Tariff'



99.95%

Overall drinking water quality

161

Million litres of
water supplied
per day



835 km²

Distribution area



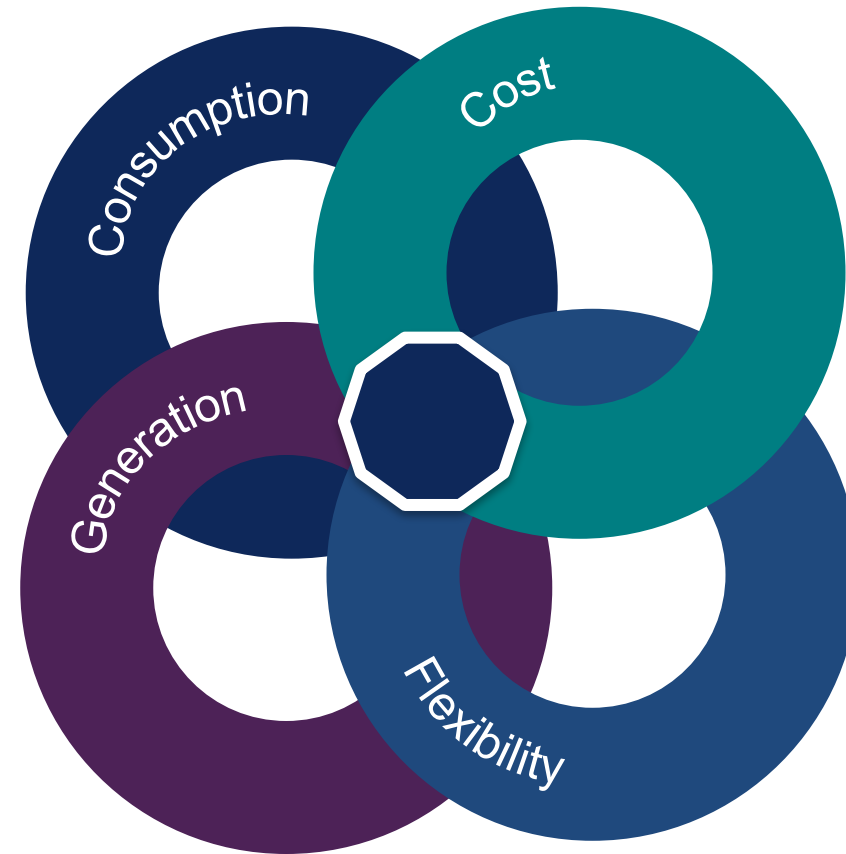
17,000

Businesses



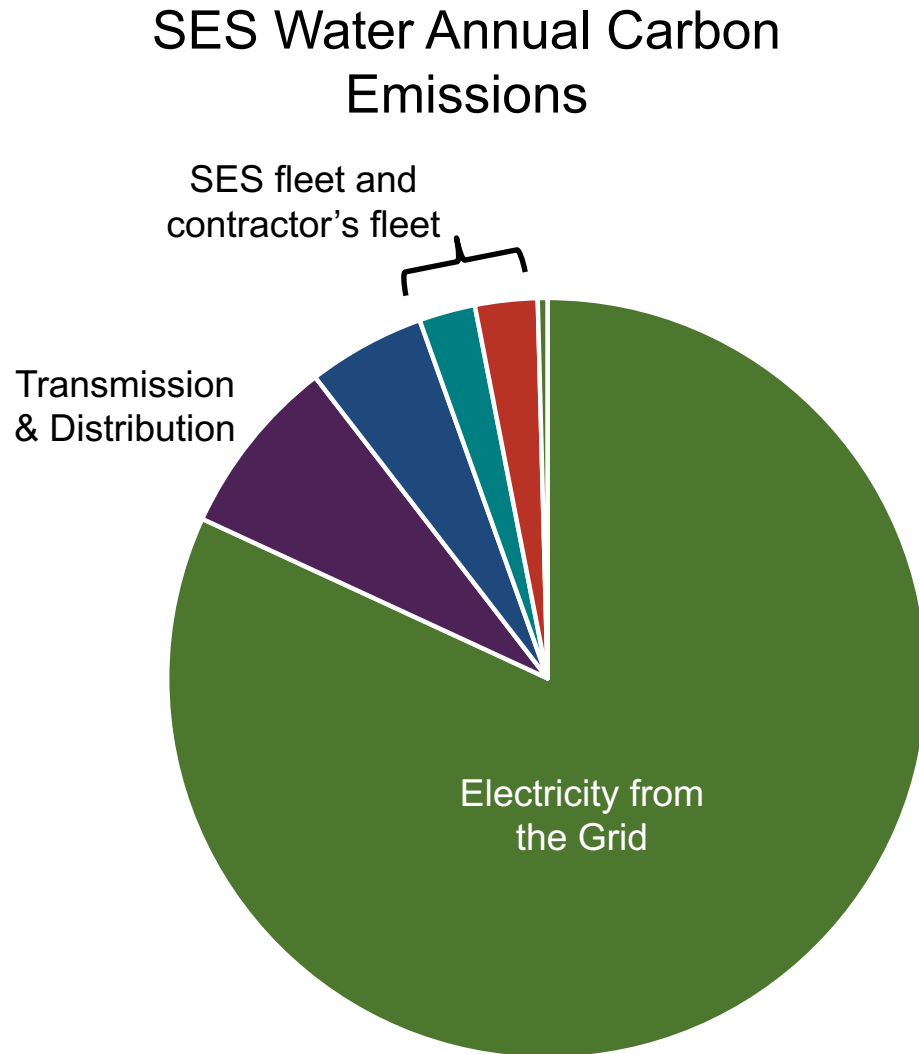
Our Energy Strategy

- EVs is a technology that sits firmly at the centre of our Energy Strategy
- It also links with other elements of our corporate strategy – reducing impact on the environment in our communities



Where cost, consumption, generation and flexibility come together there is value for us and our customers

Why EVs are an important part of our Energy Strategy



- Vehicles are responsible for a significant part of our carbon footprint, especially as we purchase 100% renewable electricity
- We are always looking to reduce the impact of our operations on our local community – EVs bring air quality benefits
- Flexibility is a key part of our strategy and we are keen to develop a longer-term V2G opportunity

Key considerations

Vehicles



Whole life cost



Range vs driving
schedule



Vehicle load



Maintenance



User
acceptability

Charging points



Electrical
requirements



Impact on
energy contract



Home charging



Employee
use/politics

We are trialling 10 electric vans

- We have entered a partnership with our energy supplier Haven Power
 - Working with the energy supplier takes away a lot of concern around impact on energy contract
 - The contract is rolled in to one service
 - The supplier needs proven real-world capabilities in deploying EV fleets
- Trial 10 electric vans which will enter the fleet over the next 10 months – roughly 8% of fleet

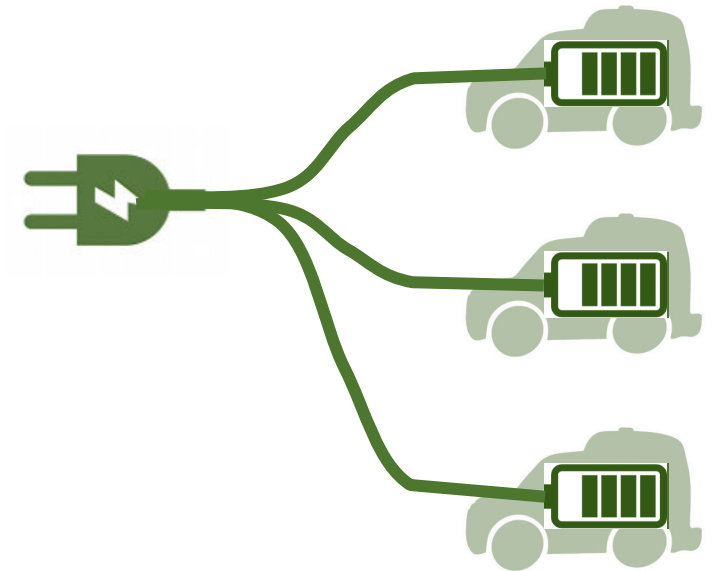


- Charge points at head office will be free for employees to use to encourage uptake of EVs
- Engaging the local community



What does the future look like?

- Short-term
 - More charging points across the network
 - More vehicles – vans and cars
- Longer-term
 - Vehicles as energy assets
 - Vehicle to grid – our current posts are not compatible
- Data from the trial allows us to build the business case and the user acceptability for both short and long term developments



00101100101001001101001010110100101011010101001010110101010100101011010100010101101010100101010
101010101010101010110101010100010010111010101001011010100101010101010101010111101011010011010001001
11010010011010110010010111010101000101011010100101101001010010101110101001001101011010010100100