

CLIMATE ASSEMBLY SESSION:

## Emissions reductions – how far and how fast

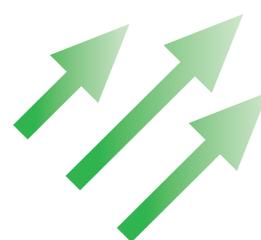
JERSEY ELECTRICITY SUBMISSION PAPER:

### We can go further and faster than many other jurisdictions

- Undoubtedly a rapid transition to carbon neutrality will incur costs for the Island but this pales into insignificance when compared with the social and economic cost of failing to act quickly enough. **But it is important to note these costs are not about consumption for today – but investments in our future** and future cost saving. For example, the faster we act to improve energy efficiency, the more quickly we can enjoy the savings.
- **Jersey Electricity believes the Island can go further and faster on the journey to carbon neutrality** in a way that is more cost effective than many other jurisdictions that rely more heavily on fossil fuels for industry and heating, and that don't have strong grid connections.

### We already have the building blocks for a zero-carbon future

- The reason Jersey can transition quickly and cost-effectively is because the Island already benefits from an almost completely decarbonised and well-invested energy system in Jersey's electricity grid, which is already enabled with smart meters and substantially 'future-proofed'. We have access to huge volumes of certified low-carbon electricity from France, so we can invest in large and smaller scale solar, wind and tidal power when it makes economic sense. In this way the grid is entirely compatible with a renewable future.
- **All Jersey has to do is displace the use of fossil fuels, which emit 10x-12x more carbon**, with low carbon electricity, and incentivise or legislate to do this more quickly. This could show rapid results if we can focus on the electrification of transport and the heating of buildings which account for almost 90% of Jersey's overall emissions. As well as avoiding tailpipe emissions, researchers say average 'lifecycle' emissions from electric cars are up to 70% lower than petrol cars in countries like Sweden and France where, like Jersey, most electricity comes from renewables and nuclear.



## We know what it will cost and need long-term commitment

- We have already studied various scenarios and we know what investment in the network may be needed, particularly the low voltage network, and we know how much this will cost. **We estimate circa £150m of capital expenditure will be needed to achieve the required infrastructure**, while maintaining network resilience and supply reliability.
- We have time to make this investment and are ready to do so if a decarbonisation strategy is agreed and followed long term, and if we can be sure that these assets will be used over the long term. Importantly for consumers, if this were the case, we believe **this investment can be staged in a such way that can avoid significant increases in electricity prices.**
- We believe, therefore, Jersey is very well positioned to show leadership – it can go further and faster in the journey to carbon neutrality.



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