

King Island Renewable Energy Integration Project (KIREIP)

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For today . . .

- The story so far – how did we get here
- Challenges faced
- What we learned along the way, and where to next



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Where are the Bass Strait Islands?



King Island



The island

- 1,600 residents, 1,200 customers
- 1–3 MW load, 12 GWh pa
- 450km of distribution
- Roaring 40's

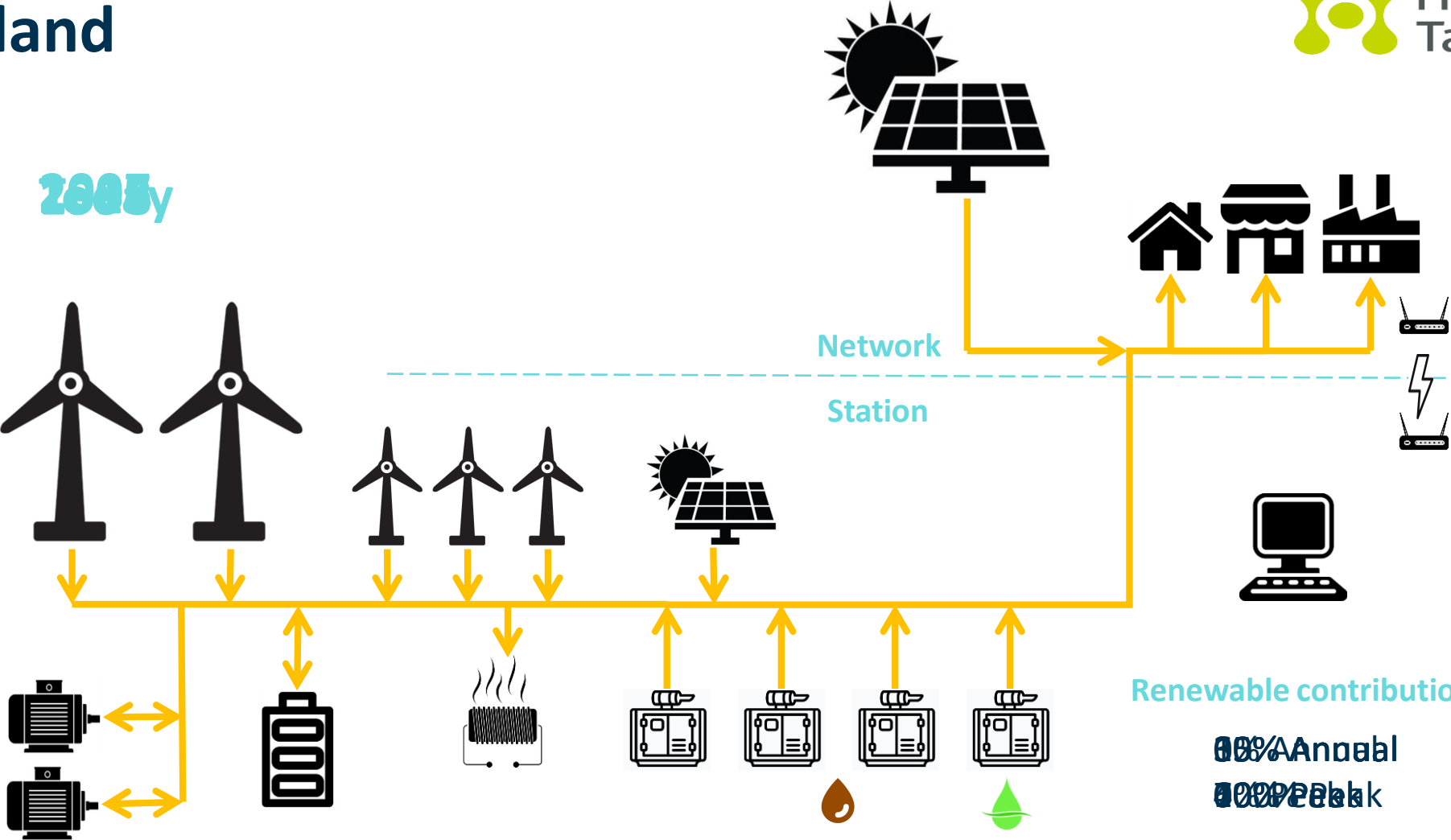
Hydro Tasmania generate, distribute, reticulate and sell electrical energy on the islands



King Island

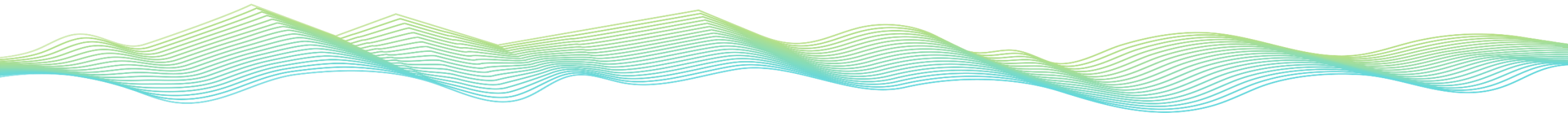


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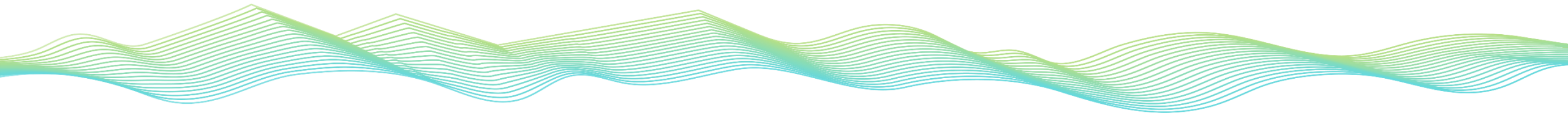
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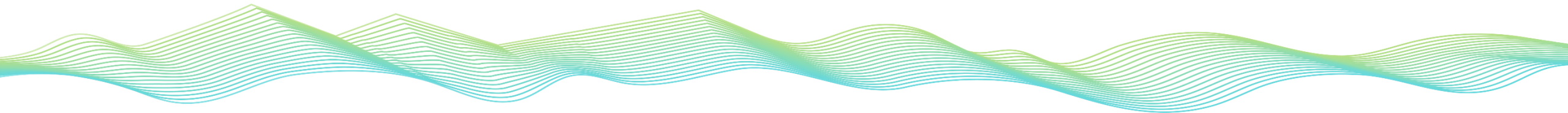
Challenges

- Variable renewable input
- Power quality
- Transmission stability and protection
- Market



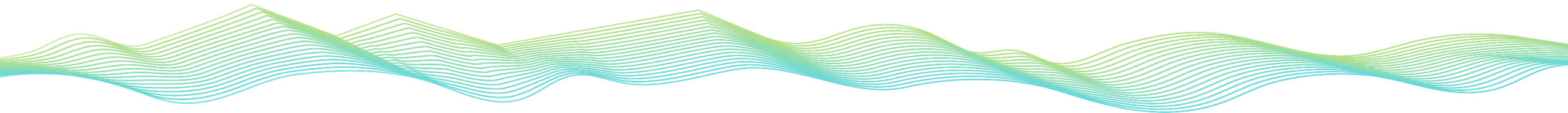
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Learnings and application to the NEM

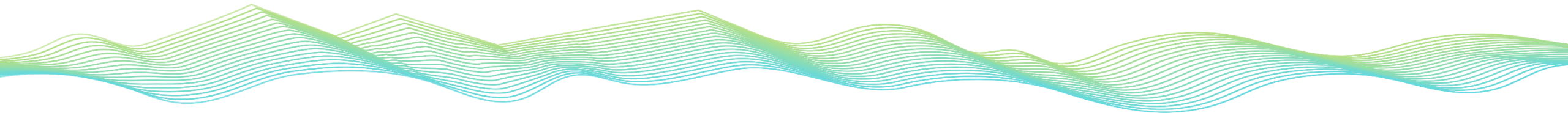
- Diversity and flexibility
- Renewable utilisation – generate or enable?
- Network support functions are critical
- Level of automation
- Solution can be replicated



KIREIP

Where to next

- Capitalise on the energy in the resistor
- Grid connected solar
- ????



Thank you