

Melbourne Renewable Energy Project

Nikki Jordan, Senior Sustainability Integration Officer, City of Melbourne Brett McDonald, Senior Greenhouse Projects Officer, City of Port Phillip



1. Who, what, how, why





Melbourne Renewable Energy Project

Principle Partners





























Energy Partners





A New Wind Farm: Crowlands





Power Purchase Agreement (PPA)



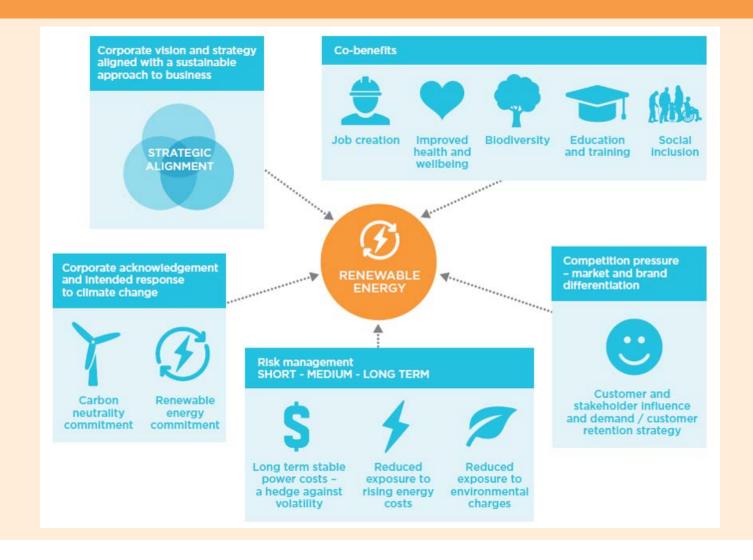
This project will help Melbourne achieve



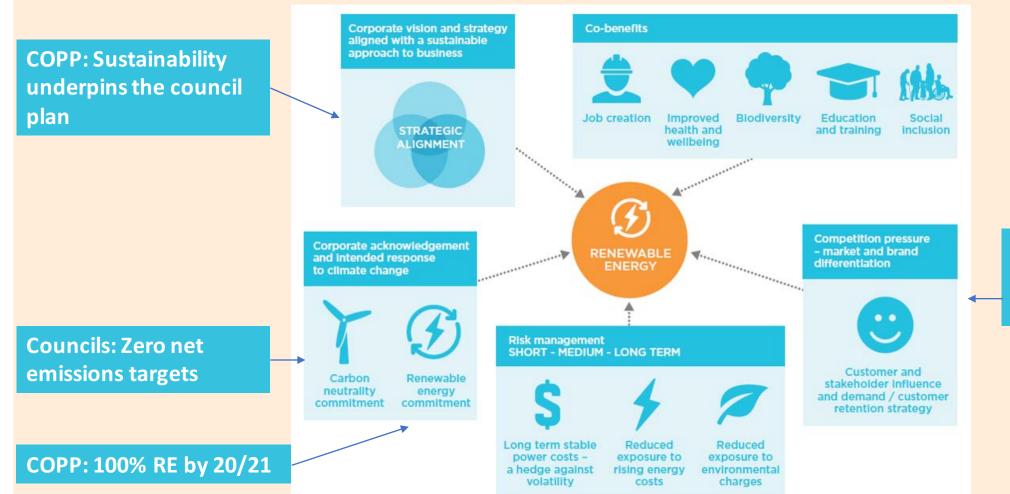




Leading Drivers for PPAs



Leading Drivers for PPAs



Community members don't like council buying offsets



Contracting Renewable Energy: Benefits





Action on climate change





More stable electricity budget and lower costs. Can mitigate risks via contracts.





Leadership & meet strategic goals





Behind the meter options lack <u>scale</u> and other retail electricity strategies do not provide a <u>long term</u> shield against electricity price increases and volatility. Ownership models not for everyone.





Contracting Renewable Energy: Benefits





Tangible project,
i.e 100% GreenPower from
Crowlands Wind Farm





Speed-up transition to renewable energy dominated grid





Strengthen urban-regional relationships





Create local jobs in regional areas



2. The appeal of linking electricity contracts to carbon neutrality



MREP: 3 years of hardwork for 10 years of benefit





Cost: Savings from Black Power PPA subsidies GreenPower





Cost: Cheaper GreenPower –
Long term LGC contract cheaper than
spot market and 5-year forward contract



Limited scope to meet council goals without offsite renewables





MREP: 3 years of hardwork for 10 years of benefit



Saves Staff Time & Releases (some) Pressure.





Continue to work on project delivery and behaviour change programs





Focus on Fuel Switching, i.e. Electrification.





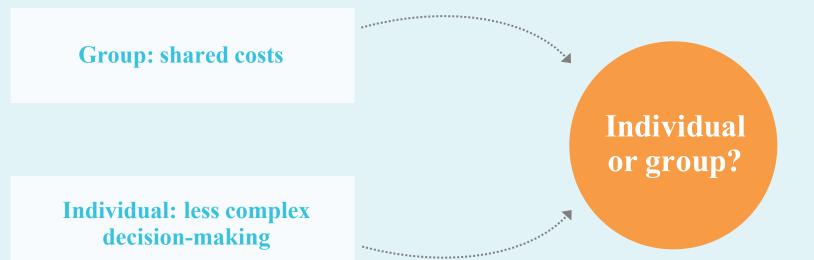
Shift from to thinking about Scope 3 emissions, supply chain & community emissions



The decision making steps Councils had to undertake to join the City of Melbourne led initiative of 14 members

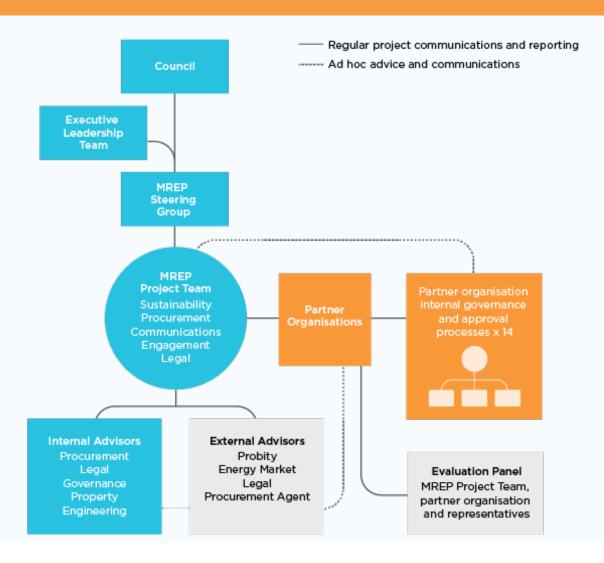


Go it alone, or create a group?





Governance structure





Memorandum of Understanding, then Participant Agreement



An agreement governing the relationship between the participants, and to facilitate the tender process and execution of project agreements



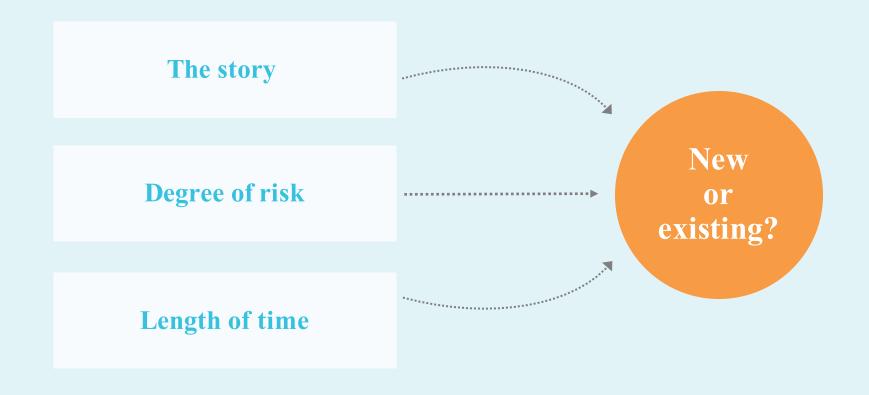
Memorandum of Understanding, then Participant Agreement



City of Port Phillip signed the MOU because we loved the idea of MREP



Project type



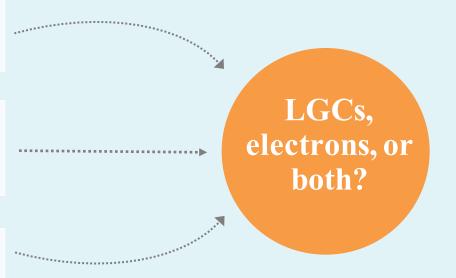


Form of renewable energy



Bundled contract

Support new energy project





The key attributes for a PPA



Be creditworthy (investment grade credit rating ideally)





Energy is a strategic consideration, enabling your organisation to make a long term commitment





Ideally consume at least 15 GWh per annum in a State



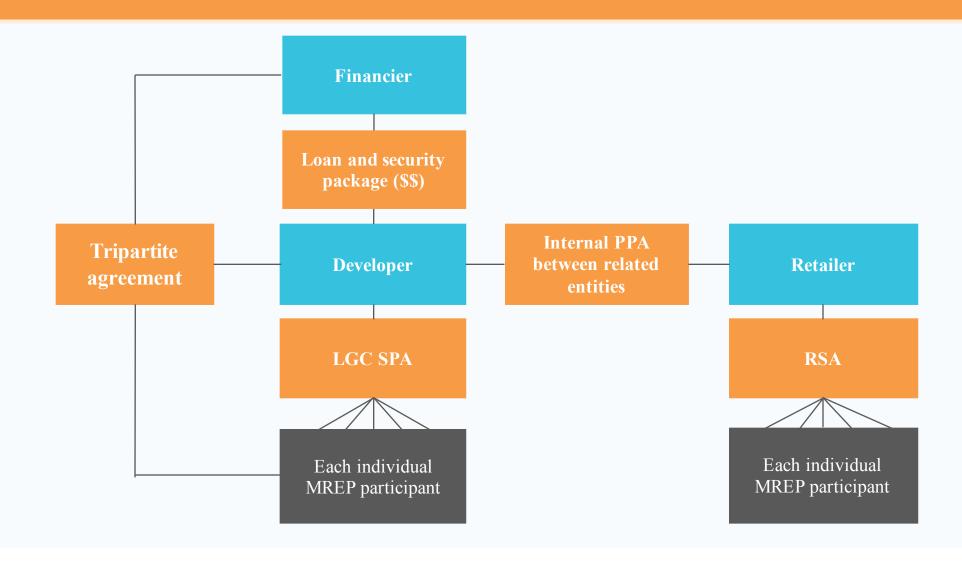


Have relatively predictable electricity needs over ~10 year term



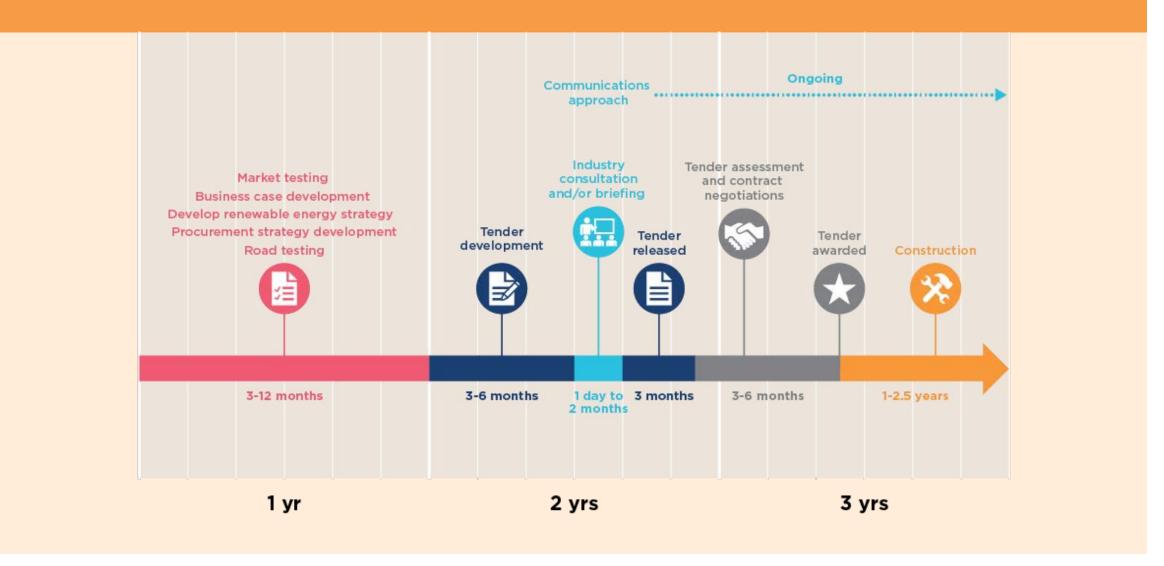


Supply Linked Retail PPA - MREP Contractual Structure



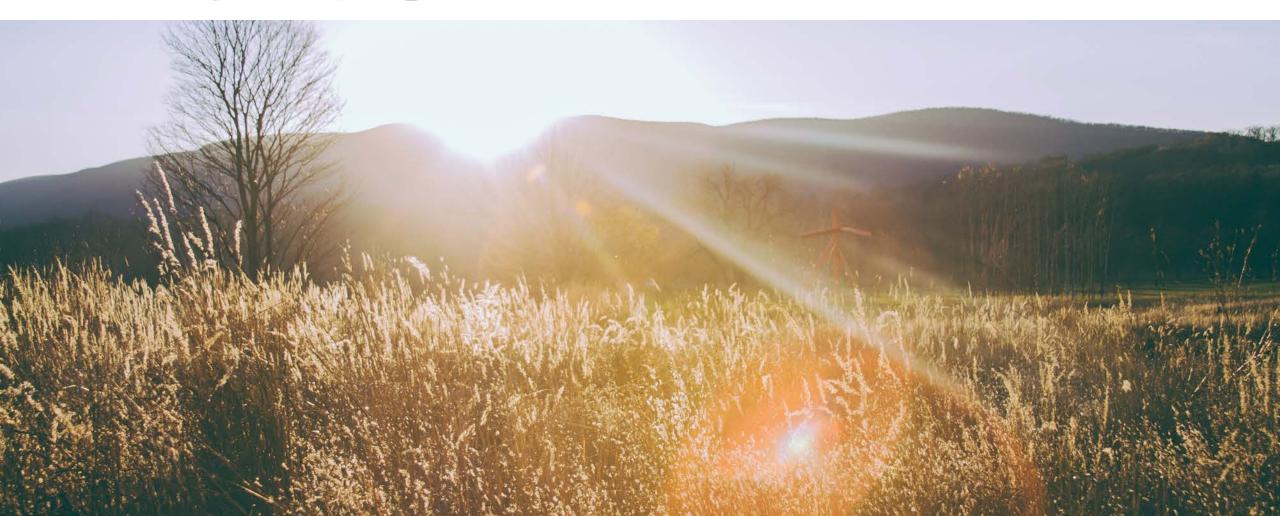


MREP Timeline



4. How did members measure and assess risk and financial impacts and environmental benefits?

Renewable Energy Will Be Consistently Cheaper Than Fossil Fuels By 2020, Report Claims

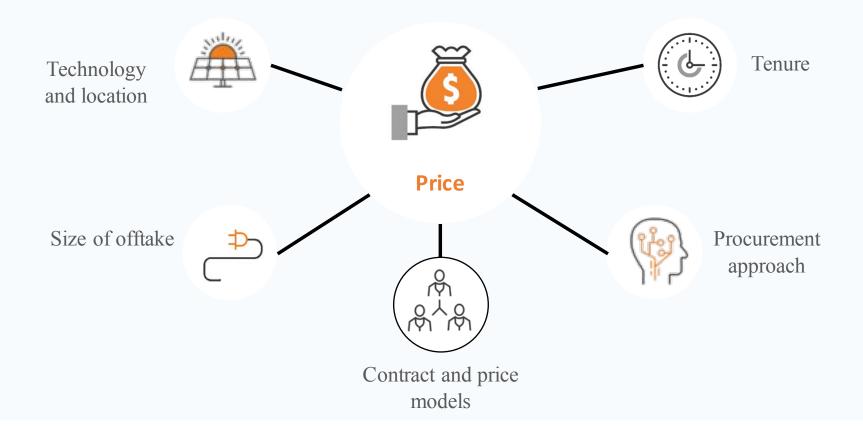






What are the key market drivers impacting corporate PPA prices?





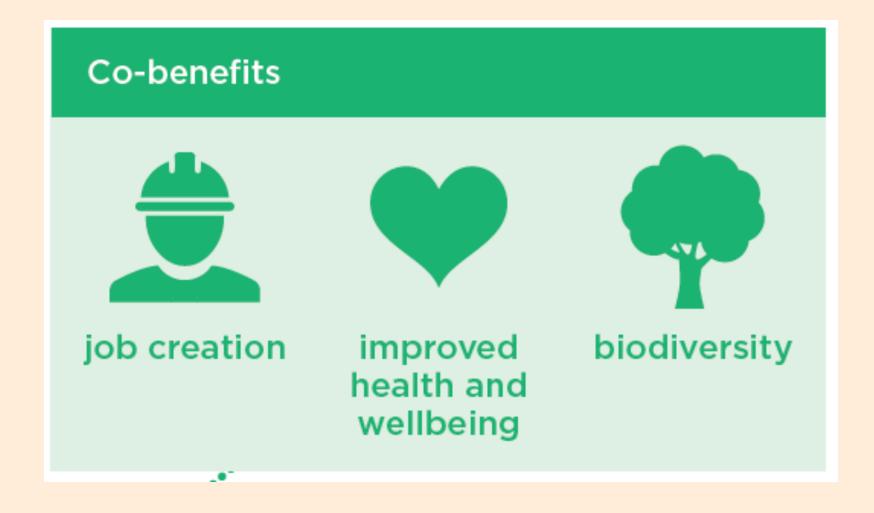
MREP risks, cost and mitigation

Risk	Cost	Mitigation
Complexity of energy markets & contracting	third party advice	none
Price risk	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	40% price fixed + 60% price reset every 2 years
Regulatory risk	LGC expenditure	Change of Law Provision
construction risk	delays	bridging contracts; exit clauses
Rejection of proposal	opportunity cost	Plan B

BAU vs MREP

	BAU	MREP
Contract term	3 years	10 years
Pricing	3 yrs fixed/known pricing; Guaranteed Saving (30-40%)	40% price fixed + 60% price reset every 2 years
Retailers	4	1 + customer set service standards
Volume	+/-20%	+/- 20% for each organd MREP group
GreenPower	Spot market, expensive	10 years flat rate, less expensive
Procurement/cost of expertise	No upfront cost, ~1.8% trailing commission	Upfront (shared) costs, shared costs every 2 years

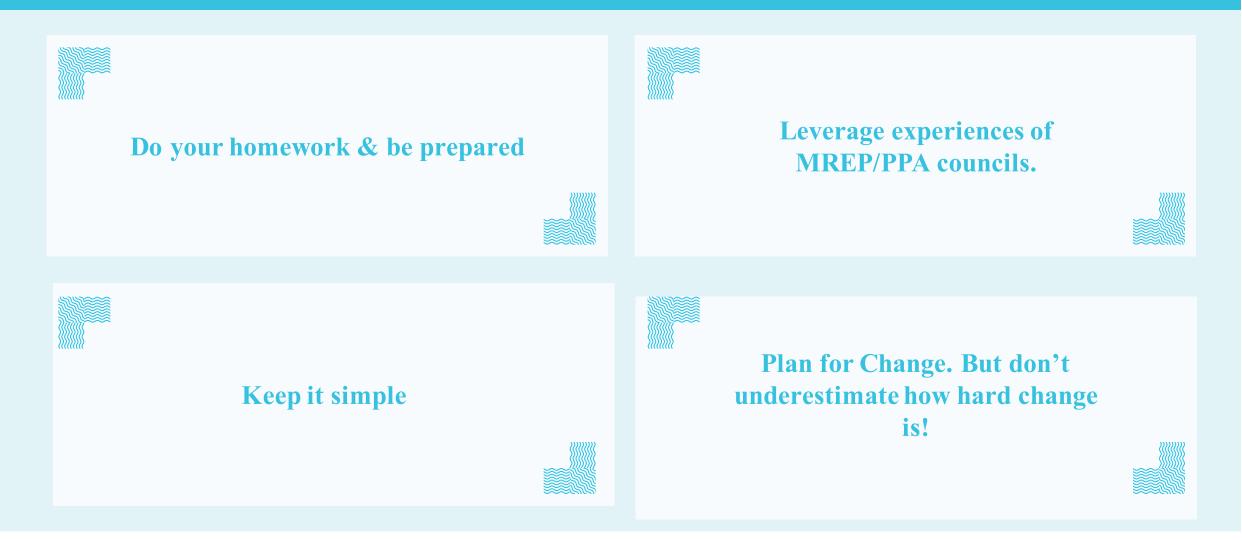
Social and environmental benefits



5. What are the key learnings and opportunities for local government?

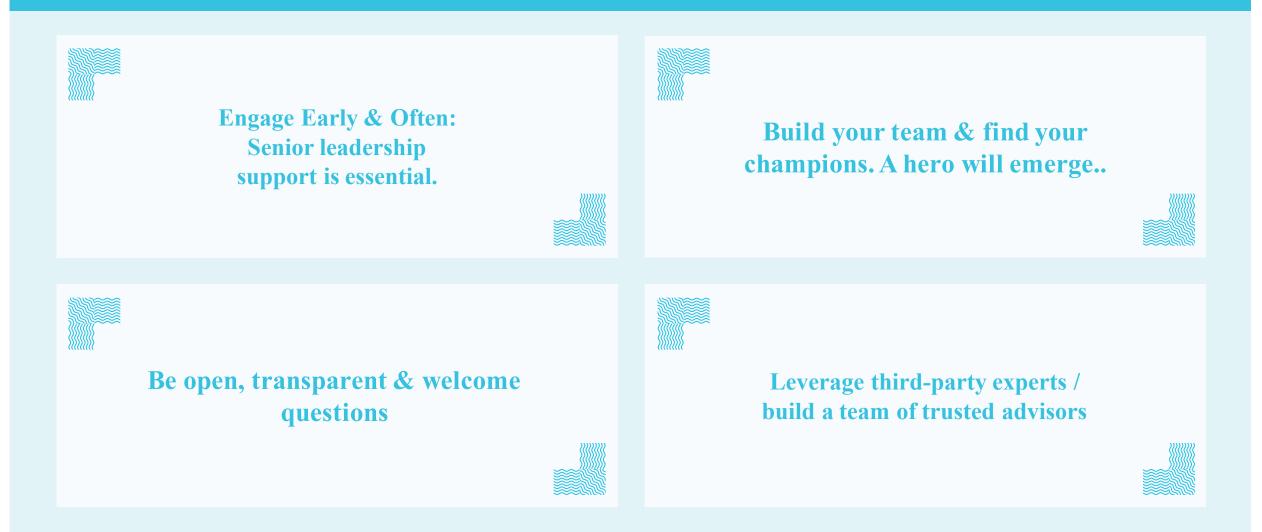


Our big insights and takeaways





Our big insights and takeaways



6. The real value of MREP is in the replication



What's next?



MREP V2.0
Businesses within City of Melbourne.





LG PPA (led by Victorian Greenhouse Alliances)
34 Councils





South East Melbourne Renewable
Energy Project
Councils and Businesses





Procurement Australia LG PPA Councils



7. Crowlands Wind Farm under construction







