



# Scaling up solar on council facilities

## Project Summary

# Deliverables

1. Site assessments + tools

2. Procurement resources

3. 'Buy Options' report

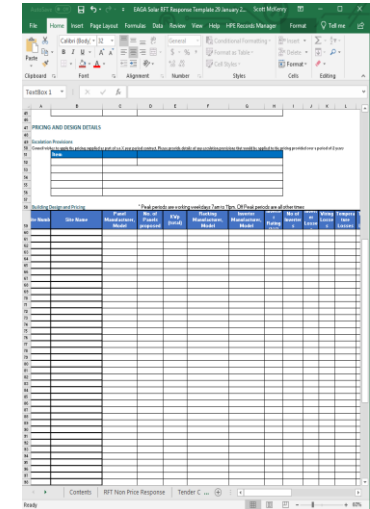
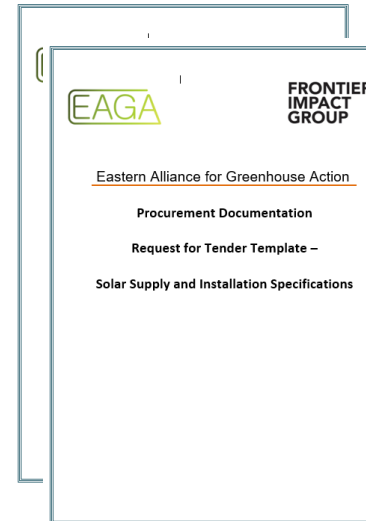


# Deliverables

1. Solar site assessments

2. Procurement resources

3. 'Buy Options' report



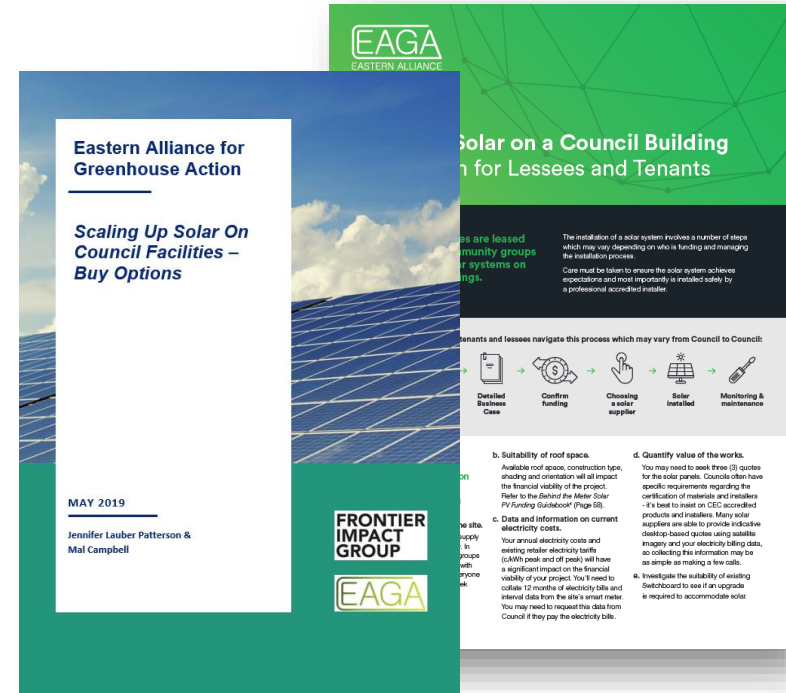
- > Tender specifications
- > Response templates
- > Tender guidelines

# Deliverables

1. Solar site assessments

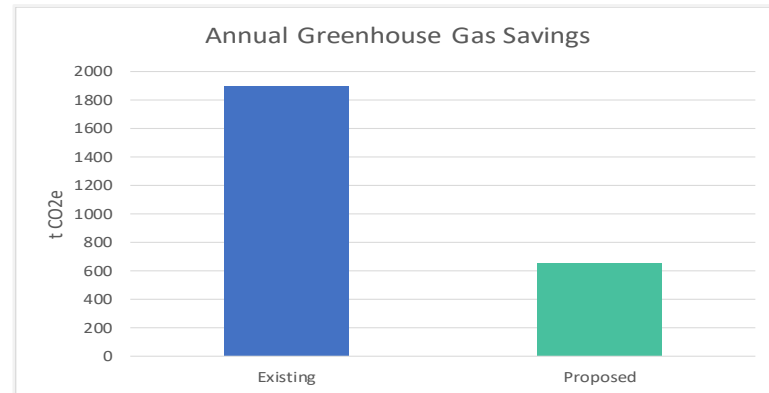
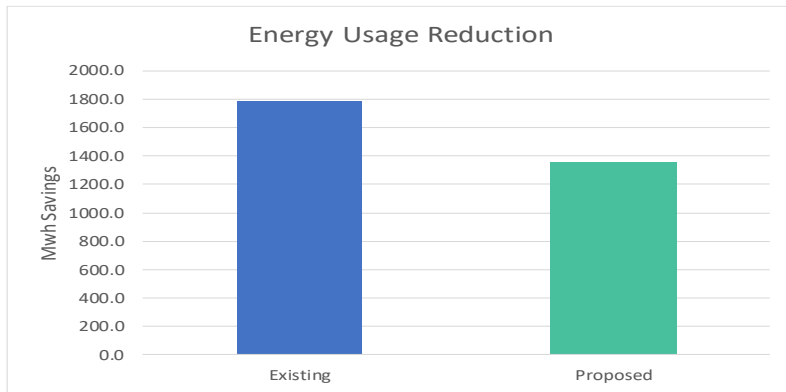
2. Procurement resources

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# Key findings

- › 935kW of solar could be installed across 53 sites of five councils
- › capital investment of \$1.7M, average savings ~ \$170,000 per year (ROI in 10 years)
- › reducing emissions by 1,400 tonnes per annum



# Opportunities by council

Council	# sites	Capacity (kW)	Capital Investment (\$'000)	Annual Savings (\$'000)	Average Simple payback (Years)	GHG Savings (tCO2e) p.a.
<b>Boroondara</b>	13	170	315	23.6	10	236
<b>Knox</b>	11	160	294	28.4	9	236
<b>Maroondah</b>	9	108	185	20.4	9	138
<b>Monash</b>	9	200	334	39.9	8	277
<b>Whitehorse</b>	11	297	618	55.8	9	431
<b>Overall</b>	53	935	1,746	168.1	10	1318

# Batteries

- › Councils should prioritise investment in additional solar before pursuing storage opportunities at these facilities and other sites with similar energy usage profiles

Council	# sites	Capacity (kW/kWh)	Capital Investment	Annual Savings	Simple payback (Years)
<b>Boroondara</b>	2	35kW/10kWh	\$10,000	\$654	15+
<b>Knox</b>	2	22kW/10kWh	\$10,000	\$338	15+
<b>Maroondah</b>	2	26kW/10kWh	\$10,000	\$675	15
<b>Monash</b>	2	50kW/10kWh	\$10,000	\$647	15+
<b>Whitehorse</b>	2	26kW/10kWh	\$10,000	\$752	14
<b>Overall</b>	10	170kW/50kWh	\$50,000	\$3,066	15+

# On site leasing + behind the meter PPA options

- › Leasing is feasible on 18 sites and may avoid nearly \$500,000 in capital costs
- › Behind the meter PPA is feasible on 7 sites options may avoid \$177,000 in capital
- › Possible solutions for cash constrained councils
- › Possible solution for tenanted sites (particularly sporting clubs facing energy stress)





# Collaborative opportunities

## Bulk purchase

- › 10-20% reduction on capital costs
- › Potential to leverage additional 120kW

## Portfolio approach (1yr implementation)

- › High return site cross subsidise the lower
- › 25% more energy and GHG savings

## Joint procurement / centralised delivery

- › Avoids duplication
- › 30% time efficiency for council staff