

	To be used in cost benefit analysis
	MMA sourced data
	Informative only
	Assumption value

Purpose of model To provide a cost benefit analysis of the introduction of the a feed in premium on electricity generated from solar panels

Costs

	Quantifiable	Offset against a cost o	One off payment
Private Household			
Total installed cost of PV system including metering	y	n	y
Cost of Capital	y	n	n
Cost of electricity to households	y	n	n
System costs incurred by government and networks			
Government advertising campaign	assumptions	n	n
Network augmentation	assumptions	n	n
Impost of the scheme participants (premium tariff - cost of supply)	y	y	n
Solar homes rebate	y	y	y
Retailers			
Value of credits from the REC	y	y	y

Benefits

Private Household			
Impost of the scheme participants (premium tariff - cost of supply)	y	y	n
REC rebate for renewable energy credit	y	y	y
Solar homes rebate	y	y	y
System costs incurred by government and networks			
Reduced line loss	difficult	n	n
Avoid need for network augmentation	difficult	n	n
Community benefits			
Avoided greenhouse gases	y	n	n
Increasing scale efficiencies greated by greater take up of PV systems	n	n	y
Government			
Providing avenue for consumers to actively manage their carbon footprint is consistent with Government policy	n	n	y

Value only - assumptions used throughout cost benefit analysis

Assumption	Category	Description	Value	Source
Typical size of household PV system	Private household	Value in kW	1.5	kW
Average installed Cost of PV System	Private household	Fully installed including meter	\$12,500.00	MMA data
Solar output	Private household	Average of range given. MMA assume 1708 – 2536kWh per annum for a 1.5kW system.	1400	kwh /kw
REC Credit	Private household	Assumed from pricing of systems, \$/MWh generated	\$40	Per MWh based on MMA data
Percentage of people that qualify	Private household	Percentage qualifying for rebate	100.00%	Assumed
Solar Homes rebate	Private household	Means tested for households earning <\$100000	\$8,000.00	DPI website
Percentage of people that qualify	Private household	Percentage qualifying for rebate - value taken from pre-means testing	85.00%	Survey on PV owners experience
Installation date	Private household	From the year	2009	
Household annual consumption	Private household		8000	Taken from Electricity distribution annual tariff report, 2008.
Daily Consumption	Private household		21.9	Taken from Electricity distribution annual tariff report, 2008.
2008/2009 Electricity Tariff	Private household		\$ 0.158	VENCORP
incl. GST	Private household		\$ 0.174	VENCORP
Export Rate	Private household	Conservative estimate. Fraction exported may be between 20% and 50% depending on the region. This is a conservative export rate for net based systems in Victoria.	30.00%	MMA data
Scaling factor	Private household	percentage of assumed 30% export rate that it is increasing or decreasing	-33%	
Real discount rate	Global	As per Victorian Guide to Regulation	3.50%	Department of Treasury and Finance
Cost of capital	Global	Used for determining the real discount rate for persons choosing PVc	7.50%	Risk adjusted cost of capital
Each bill will be check/flagged for further review	Retail	hours per annum per installment	3	Assumed
After tax income of a customer representative	Retail	\$/hours for average customer service employee before tax	\$26.00	Assumed
Advertising	Government	Website change, press releases	\$10,000	Assumption - as directed by DPI

Cost of carbon	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Taken from MMA - using announced policies including expand	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00
Increased (used in sensitivity ONLY)	\$0.00	\$0.00	\$12.24	\$13.39	\$15.60	\$16.80	\$19.08	\$20.33	\$22.68	\$25.07	\$28.60	\$31.08	\$34.72	\$38.42	\$38.76	\$39.10
Electricity Tariff	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Taken from VENCORP	\$ 0.158	\$ 0.185	\$ 0.187	\$ 0.191	\$ 0.192	\$ 0.195	\$ 0.198	\$ 0.201	\$ 0.204	\$ 0.207	\$ 0.210	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216
Increased (used in sensitivity ONLY)	\$0.16	\$0.19	\$0.19	\$0.20	\$0.20	\$0.21	\$0.21	\$0.21	\$0.22	\$0.23	\$0.23	\$0.24	\$0.24	\$0.24	\$0.25	\$0.25
Percentage increase (used on sensitivity ONLY)	0.00%	1.00%	2.00%	3.00%	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	11.00%	12.00%	13.00%	14.00%	15.00%

Costs (\$M)	Allocative effects	Felt by	Status Quo	44c Net FIT	60c Net FIT	60 Gross FIT
	NPV of PV systems purchased	PV owners	\$215.37	\$237.27	\$271.61	\$1,031.84
	Incremental cost of electricity	All consumers	\$0.00	\$6.56	\$27.96	\$243.20
	Advertising of the scheme	Government	\$0.00	\$0.01	\$0.01	\$0.01
	Implementation of the scheme	Retailers	\$0.00	\$0.99	\$1.13	\$4.29
	Total uptake (number of households)	Government	17297.96	19104.09	22003.10	66749.74
		Total	\$215.37	\$244.82	\$300.71	\$1,278.34
	Difference to Status Quo (\$M)			\$29.46	\$85.34	\$1,063.97
	% Difference			13.68%	39.63%	494.02%

Benefits	Avoided cost of carbon abated	Community	Status Quo	44c Net FIT	60c Net FIT	60 Gross FIT
	Incremental credit from PV generation	PV owners	\$0.00	\$6.56	\$27.96	\$243.20
	Difference to Status Quo (\$M)			\$0.59	\$1.51	\$48.54
	% Difference			8.17%	20.76%	667.96%

	Individual households			Victoria wide		
	Payback (yrs)	NPV (\$/household taking)	Avoided cost due to carbon abated (t CO2e)	Payback (yrs)	NPV (\$/household taking)	Avoided cost due to carbon abated (t CO2e)
Status Quo	20.72	-\$4,810.42	\$7.27	251110	\$0.00	
60c Net FIT	13.60	-\$2,557.46	\$8.78	304160	\$27.96	
44c Net FIT	15.79	-\$3,402.79	\$7.86	272205	\$6.56	
60 Gross FIT	6.53	\$2,690.39	\$55.81	2180691	\$243.20	

FOR SENSITIVITY ONLY	To be used for	Individual households			Victoria wide		
		Payback (yrs)	NPV (\$/household taking)	Avoided cost due to carbon abated (t CO2e)	Payback (yrs)	NPV (\$/household taking)	Avoided cost due to carbon abated (t CO2e)
%export and rebate	Status Quo	20.36	-\$4,735.33	\$4.87	168244		
	60c Net FIT	17.41	-\$3,984.34	\$5.88	203787		
	44c Net FIT	18.49	-\$4,266.12	\$5.27	182377		
	60 Gross FIT	6.53	\$2,690.39	\$37.39	1461063		

FOR SENSITIVITY ONLY	To be used for	Individual households			Victoria wide		
		Payback (yrs)	NPV (\$/household taking)	Avoided cost due to carbon abated (t CO2e)	Payback (yrs)	NPV (\$/household taking)	Avoided cost due to carbon abated (t CO2e)
change in electricity rate	Status Quo	16.32	-\$4,555.90	\$0.00			
	60c Net FIT	13.64	-\$2,298.17	\$32.48			
	44c Net FIT	14.73	-\$3,219.63	\$1.78			
	60 Gross FIT	4.86	\$2,690.39	\$291.36			

Option 1 - status quo

Costs

Stakeholder	Cost driver	NPV (\$M)
PV owners	NPV of PV systems purchased	\$215.37
All consumers	Incremental cost of electricity	\$0.00
Government	Advertising of the scheme	\$0.00
	Total uptake (number of households)	17,297.96
Retailers	Implementation of the scheme	\$0.00
Total		\$215.37

Status Quo

Cost driver	Value
PV system size (kW)	1.5
Installation date from	2009
Household annual consumption (kWh)	8000
Household daily consumption (kW)	21.92
Payback period (yrs)	20.72
NPV (\$)	-\$4,810

Benefits

Stakeholder	Cost driver	NPV (\$M)
PV owners	Incremental credit from PV generation	\$0.00
Community	Avoided cost of carbon abated	\$7.27
	Carbon abated over 15 yrs (t)	251,110.07
Total		\$7.27

Option 2 - 60c Net FIT

Costs

Stakeholder	Cost driver	NPV (\$M)
PV owners	NPV of PV systems purchased	\$56.25
All consumers	Incremental cost of electricity	\$27.96
Government	Advertising of the scheme	\$0.01
	Additional uptake (to the status quo)	4,705.14
Retailers	Implementation of the scheme	\$1.13
Total		\$85.34

60c Net FIT

Cost driver	Value
PV system size (kW)	1.5
Installation date from	2009
Household annual consumption (kWh)	8000
Household daily consumption (kW)	21.92
Payback period (yrs)	13.60
NPV (\$)	-\$2,557

Benefits

Stakeholder	Cost driver	NPV (\$M)
PV owners	Incremental credit from PV generation	\$27.96
Community	Avoided cost of carbon abated	\$8.78
	Carbon abated over 15 yrs (t)	304,160.76
Total		\$36.73

Option 3 - 44c Net FIT

Costs

Stakeholder	Cost driver	NPV (\$M)
PV owners	NPV of PV systems purchased	\$21.90
All consumers	Incremental cost of electricity	\$6.56
Government	Advertising of the scheme	\$0.01
	Additional uptake (to the status quo)	1,906.13
Retailers	Implementation of the scheme	\$0.99
Total		\$30.46

44c Net FIT

Cost driver	Value
PV system size (kW)	1.5
Installation date from	2009
Household annual consumption (kWh)	8000
Household daily consumption (kW)	21.92
Payback period (yrs)	15.79
NPV (\$)	-\$3,403

Benefits

Stakeholder	Cost driver	NPV (\$M)
PV owners	Incremental credit from PV generation	\$6.56
Community	Avoided cost of carbon abated	\$7.86
	Carbon abated over 15 yrs (t)	272,205.76
Total		\$14.42

Option 4 - 60c Gross FIT

Costs

Stakeholder	Cost driver	NPV (\$M)
PV owners	NPV of PV systems purchased	\$816.47
All consumers	Incremental cost of electricity	\$243.20
Government	Advertising of the scheme	\$0.01
	Additional uptake (to the status quo)	49,451.79
Retailers	Implementation of the scheme	\$4.29
Total		\$1,063.97

60c Gross FIT

Cost driver	Value
PV system size (kW)	1.5
Installation date from	2009
Household annual consumption (kWh)	8000
Household daily consumption (kW)	21.92
Payback period (yrs)	6.53
NPV (\$)	\$2,690

Benefits

Stakeholder	Cost driver	NPV (\$M)
PV owners	Incremental credit from PV generation	\$243.20
Community	Avoided cost of carbon abated	\$55.81
	Carbon abated over 15 yrs (t)	2,180,690.76
Total		\$299.00

Option	Impost
Status Quo	\$0.00
60c Net FIT	\$27.96
44c Net FIT	\$6.56
60 Gross FIT	\$243.20

Option	Percentage of total electricity
Status Quo	0.00%
60c Net FIT	0.04%
44c Net FIT	0.01%
60 Gross FIT	0.37%

Net Metering Analysis

Assumptions and Variables

PV sytem size	1.5 kw	NPV	-\$4,810	-\$4,556
Installation date from	2009.00	IRR	#DIV/0!	#DIV/0!
Household annual consumption	8000.00 kwh	Simple Payback	20.72	16.32
Daily Consumption	21.92 kwh			
2008/2009 Electricity Tariff	0.16 per kwh			
incl. GST	0.17 per kwh			
Feed-in Tariff	\$ 0.16			
Export Rates	30% Average household export over 1 year			
System Cost	\$12,500 per kw			
REC value	\$40			
Solar region	Victorian			
Solar output	1400 kwh per kw			
PVRP	\$ 8,000 zero for no PVRP			
Discount rate	7.5% zero for simple paybacks			

Calculated outputs

System Cost	\$18,750
REC Rebate	\$1,260
Net System cost	\$17,490

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Income - export	\$ 100	\$ 116	\$ 118	\$ 120	\$ 121	\$ 123	\$ 125	\$ 127	\$ 128	\$ 130	\$ 133	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136
Income - offset	\$ 255	\$ 298	\$ 303	\$ 308	\$ 311	\$ 316	\$ 320	\$ 325	\$ 329	\$ 335	\$ 340	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349
Expenditure - system	-\$ 9,490															
Total Income	-\$ 9,135	\$ 415	\$ 421	\$ 428	\$ 432	\$ 439	\$ 444	\$ 451	\$ 458	\$ 465	\$ 473	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484
Balance	-\$ 9,135	-\$ 8,720	-\$ 8,299	-\$ 7,871	-\$ 7,439	-\$ 7,000	-\$ 6,556	-\$ 6,105	-\$ 5,647	-\$ 5,182	-\$ 4,709	-\$ 4,224	-\$ 3,740	-\$ 3,255	-\$ 2,771	-\$ 2,286

2010 - 2020 Electricity Tariff ex GST	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	\$ 0.158	\$ 0.158	\$ 0.185	\$ 0.187	\$ 0.191	\$ 0.192	\$ 0.195	\$ 0.198	\$ 0.201	\$ 0.204	\$ 0.207	\$ 0.210	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Income - export	\$ 100	\$ 117	\$ 120	\$ 124	\$ 126	\$ 129	\$ 132	\$ 135	\$ 139	\$ 142	\$ 146	\$ 151	\$ 152	\$ 153	\$ 155	\$ 156
Income - offset	\$ 255	\$ 301	\$ 309	\$ 317	\$ 323	\$ 332	\$ 339	\$ 348	\$ 356	\$ 365	\$ 374	\$ 387	\$ 390	\$ 394	\$ 397	\$ 401
Expenditure - system	-\$ 9,490															
Total Income	-\$ 9,135	\$ 419	\$ 430	\$ 441	\$ 449	\$ 461	\$ 471	\$ 483	\$ 494	\$ 507	\$ 520	\$ 538	\$ 543	\$ 547	\$ 552	\$ 557
Balance	-\$ 9,135	-\$ 8,716	-\$ 8,287	-\$ 7,846	-\$ 7,396	-\$ 6,935	-\$ 6,465	-\$ 5,982	-\$ 5,487	-\$ 4,980	-\$ 4,460	-\$ 3,922	-\$ 3,379	-\$ 2,832	-\$ 2,280	-\$ 1,723

% increase in electricity	0.00%	1.00%	2.00%	3.00%	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	11.00%	12.00%	13.00%	14.00%	15.00%
Raised electricity prices	0.16	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25

Net Metering Analysis

Assumptions and Variables

PV sytem size	1.5 kw	NPV	-\$3,403	-\$3,220
Installation date from	2009.00	IRR	0.2%	#DIV/0!
Household annual consumption	8000.00 kwh	Simple Payback	15.79	14.73
Daily Consumption	21.92 kwh			
2008/2009 Electricity Tariff	0.16 per kwh			
incl. GST	0.17 per kwh			
Feed-in Tariff	\$ 0.44			
Export Rates	30% Average household export over 1 year			
System Cost	\$12,500 per kw			
REC value	\$40			
Solar region	Victorian			
Solar output	1400 kwh per kw			
PVRP	\$ 8,000 zero for no PVRP			
Discount rate	7.5% zero for simple paybacks			

Calculated outputs

System Cost	\$18,750
REC Rebate	\$1,260
Net System cost	\$17,490

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Income - export	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277
Income - offset	\$ 255	\$ 298	\$ 303	\$ 308	\$ 311	\$ 316	\$ 320	\$ 325	\$ 329	\$ 335	\$ 340	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349
Expenditure - system	-\$ 9,490															
Total Income	-\$ 8,957	\$ 576	\$ 580	\$ 585	\$ 588	\$ 593	\$ 597	\$ 602	\$ 607	\$ 612	\$ 618	\$ 626	\$ 626	\$ 626	\$ 626	\$ 626
Balance	-\$ 8,957	-\$ 8,382	-\$ 7,801	-\$ 7,216	-\$ 6,628	-\$ 6,035	-\$ 5,438	-\$ 4,836	-\$ 4,230	-\$ 3,617	-\$ 3,000	-\$ 2,374	-\$ 1,748	-\$ 1,122	-\$ 497	\$ 129

2010 - 2020 Electricity Tariff ex GST	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	\$ 0.158	\$ 0.158	\$ 0.185	\$ 0.187	\$ 0.191	\$ 0.192	\$ 0.195	\$ 0.198	\$ 0.201	\$ 0.204	\$ 0.207	\$ 0.210	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Income - export	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277	\$ 277
Income - offset	\$ 255	\$ 301	\$ 309	\$ 317	\$ 323	\$ 332	\$ 339	\$ 348	\$ 356	\$ 365	\$ 374	\$ 387	\$ 390	\$ 394	\$ 397	\$ 401
Expenditure - system	-\$ 9,490															
Total Income	-\$ 8,957	\$ 579	\$ 586	\$ 595	\$ 601	\$ 609	\$ 616	\$ 625	\$ 633	\$ 642	\$ 652	\$ 664	\$ 668	\$ 671	\$ 675	\$ 678
Balance	-\$ 8,957	-\$ 8,379	-\$ 7,792	-\$ 7,198	-\$ 6,597	-\$ 5,988	-\$ 5,372	-\$ 4,748	-\$ 4,115	-\$ 3,473	-\$ 2,821	-\$ 2,157	-\$ 1,489	-\$ 818	-\$ 143	\$ 535

% increase in electricity	0.00%	1.00%	2.00%	3.00%	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	11.00%	12.00%	13.00%	14.00%	15.00%
Raised electricity prices	0.16	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25

Net Metering Analysis

Assumptions and Variables

PV system size	1.5 kw	NPV	-\$2,557	-\$2,298
Installation date from	2009.00	IRR	2.0%	2.8%
Household annual consumption	8000.00 kwh	Simple Payback	13.60	13.64
Daily Consumption	21.92 kwh			
2008/2009 Electricity Tariff incl. GST	0.16 per kwh			
	0.17 per kwh			
Feed-in Tariff	\$ 0.60			
Export Rates	30% Average household export over 1 year			
System Cost	\$12,500 per kw			
REC value	\$40			
Solar region	Victorian			
Solar output	1400 kwh per kw			
PVRP	\$ 8,000 zero for no PVRP			
Discount rate	8% zero for simple paybacks			

Calculated outputs

System Cost	\$18,750
REC Rebate	\$1,260
Net System cost	\$17,490

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049		
Income - export	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136	\$ 136		
Income - offset	\$ 255	\$ 298	\$ 303	\$ 308	\$ 311	\$ 316	\$ 320	\$ 325	\$ 329	\$ 335	\$ 340	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	\$ 349	
Expenditure - system	-\$ 9,490																																										
Total Income	-\$ 8,857	\$ 676	\$ 681	\$ 686	\$ 689	\$ 694	\$ 698	\$ 703	\$ 707	\$ 713	\$ 718	\$ 727	\$ 727	\$ 727	\$ 727	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	\$ 484	
Balance	-\$ 8,857	-\$ 8,180	-\$ 7,499	-\$ 6,813	-\$ 6,124	-\$ 5,430	-\$ 4,732	-\$ 4,030	-\$ 3,322	-\$ 2,609	-\$ 1,891	-\$ 1,164	-\$ 438	\$ 289	\$ 1,015	\$ 1,500	\$ 1,984	\$ 2,469	\$ 2,953	\$ 3,438	\$ 3,922	\$ 4,407	\$ 4,891	\$ 5,376	\$ 5,860	\$ 6,345	\$ 6,829	\$ 7,314	\$ 7,798	\$ 8,282	\$ 8,767	\$ 9,251	\$ 9,736	\$ 10,220	\$ 10,705	\$ 11,189	\$ 11,674	\$ 12,158	\$ 12,643	\$ 13,127	\$ 13,612		
2010 - 2020 Electricity Tariff ex GST	\$ 0.158	\$ 0.158	\$ 0.185	\$ 0.187	\$ 0.191	\$ 0.192	\$ 0.195	\$ 0.198	\$ 0.201	\$ 0.204	\$ 0.207	\$ 0.210	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Income - export	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378	\$ 378
Income - offset	\$ 255	\$ 301	\$ 309	\$ 317	\$ 323	\$ 332	\$ 339	\$ 348	\$ 356	\$ 365	\$ 374	\$ 387	\$ 390	\$ 394	\$ 397	\$ 401
Expenditure - system	-\$ 9,490															
Total Income	-\$ 8,857	\$ 679	\$ 687	\$ 695	\$ 701	\$ 710	\$ 717	\$ 726	\$ 734	\$ 743	\$ 752	\$ 765	\$ 768	\$ 772	\$ 775	\$ 779
Balance	-\$ 8,857	-\$ 8,177	-\$ 7,490	-\$ 6,795	-\$ 6,093	-\$ 5,384	-\$ 4,667	-\$ 3,941	-\$ 3,208	-\$ 2,465	-\$ 1,712	-\$ 947	-\$ 179	\$ 593	\$ 1,369	\$ 2,148
% increase in electricity	0.00%	1.00%	2.00%	3.00%	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	11.00%	12.00%	13.00%	14.00%	15.00%
Raised electricity prices	0.16	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25

Net Metering Analysis

Assumptions and Variables

PV sytem size	1.5 kw	NPV	\$2,690	\$2,690
Installation date from	2009.00	IRR	12.8%	12.8%
Household annual consumption	8000.00 kwh	Simple Payback	6.53	4.86
Daily Consumption	21.92 kwh			
2008/2009 Electricity Tariff	0.16 per kwh			
incl. GST	0.17 per kwh			

Feed-in Tariff	\$ 0.60
Export Rates	100% Average household export over 1 year
System Cost	\$12,500 per kw
REC value	\$40
Solar region	Victorian
Solar output	1400 kwh per kw
PVRP	\$ 8,000 zero for no PVRP
Discount rate	8% zero for simple paybacks

Calculated outputs

System Cost	\$18,750
REC Rebate	\$1,260
Net System cost	\$17,490

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Income - export	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260
Income - offset	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditure - system	-\$ 9,490															
Total Income	-\$ 8,230	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260
Balance	-\$ 8,230	-\$ 6,970	-\$ 5,710	-\$ 4,450	-\$ 3,190	-\$ 1,930	-\$ 670	\$ 590	\$ 1,850	\$ 3,110	\$ 4,370	\$ 5,630	\$ 6,890	\$ 8,150	\$ 9,410	\$ 10,670

2010 - 2020 Electricity Tariff ex GST	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	\$ 0.158	\$ 0.158	\$ 0.185	\$ 0.187	\$ 0.191	\$ 0.192	\$ 0.195	\$ 0.198	\$ 0.201	\$ 0.204	\$ 0.207	\$ 0.210	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216	\$ 0.216

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Income - export	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260
Income - offset	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditure - system	-\$ 9,490															
Total Income	-\$ 8,230	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260	\$ 1,260
Balance	-\$ 8,230	-\$ 6,970	-\$ 5,710	-\$ 4,450	-\$ 3,190	-\$ 1,930	-\$ 670	\$ 590	\$ 1,850	\$ 3,110	\$ 4,370	\$ 5,630	\$ 6,890	\$ 8,150	\$ 9,410	\$ 10,670

% increase in electricity	0.00%	1.00%	2.00%	3.00%	4.00%	5.00%	6.00%	7.00%	8.00%	9.00%	10.00%	11.00%	12.00%	13.00%	14.00%	15.00%
Raised electricity prices	0.16	0.19	0.19	0.20	0.20	0.21	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25

Cumulative Data		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Feed In Tariff Rates																		
Status Quo	\$/MWh	220.00	223.3	236.2495	240.753243	245.420541	250.263449	255.295161	260.530124	265.984166	271.674627	277.620515	283.842668	290.363938	297.019469	301.365961	305.778086	310.256826
Stated Policy - 44 c/kWh Net FIT	\$/MWh	440.00	429	418.275	407.818125	397.622672	387.682105	377.990052	368.540001	359.326794	350.343624	341.585033	333.045407	324.719272	316.610129	308.686258	300.969102	293.444874
Stated Policy - 60 c/kWh Net FIT	\$/MWh	800.00	585	570.375	556.115625	542.212734	528.657416	515.440981	502.554956	489.991082	477.741305	465.797773	454.152828	442.799007	431.729032	420.935807	410.412411	400.152101
Stated Policy - 60 c/kWh Gross FIT	\$/MWh	800.00	585	570.375	556.115625	542.212734	528.657416	515.440981	502.554956	489.991082	477.741305	465.797773	454.152828	442.799007	431.729032	420.935807	410.412411	400.152101

Cumulative Electricity Supply by Renewable Generation		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Status Quo	GWh	0.09129742	0.59169252	1.64753529	2.52400194	3.60499520	4.72225969	6.26118398	8.17642656	9.83921733	12.680403	15.2586965	17.646769	17.8608127	21.3858606	26.0922428	33.2386675	38.4650181
Stated Policy - 44 c/kWh Net FIT	GWh	0.36370723	0.75347768	1.97096105	2.94458898	3.76459821	4.96236988	6.69332588	8.92933056	10.7553191	13.5913991	16.0835363	19.3410765	19.7266378	23.1739112	27.9783475	35.1884301	42.2538064
Stated Policy - 60 c/kWh Net FIT	GWh	0.35152205	0.68851172	3.3465001	3.72937548	4.19374384	6.12315228	7.38229232	10.3760445	11.158435	13.8650457	17.1069737	20.5730914	21.5426686	26.0305556	30.4081307	40.5196931	48.9028516
Stated Policy - 60 c/kWh Gross FIT	GWh	1.22357152	3.78142825	10.0169902	28.7315261	56.4486065	101.047755	148.574807	148.574807	148.574807	148.574807	148.574807	148.574807	148.574807	148.574807	148.574807	148.574807	148.574807

Cumulative Capacity Installed Capacity each Year		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Status Quo	MW	0.0575	0.39754545	1.11515702	1.71364346	2.45150349	3.21252373	4.26645831	5.58209426	6.72699925	8.68071136	10.451961	12.0989151	12.2560254	14.6756014	17.8231327	22.4912704	25.9469348
Stated Policy - 44 c/kWh Net FIT	MW	0.241	0.50629798	1.33649796	2.00439693	2.56881508	3.39130816	4.58090622	6.12026891	7.38432718	9.34165372	11.0865543	13.3144336	13.610039	15.9951908	19.2234048	23.9443584	28.6551297
Stated Policy - 60 c/kWh Net FIT	MW	0.228	0.4555051	2.26106112	2.53244557	2.85567735	4.18239126	5.05371339	7.11257918	7.66550423	9.54171639	11.7890267	14.1823491	14.8631305	17.9057075	20.860308	27.3748948	33.0046513
Stated Policy - 60 c/kWh Gross FIT	MW	0.803	2.64822727	6.93792654	19.5692642	38.2652365	68.2282137	100.016893	100.027184	100.03758	100.048081	100.058688	100.069402	100.080224	100.091156	100.102198	100.113351	100.124617

Cumulative Number of Systems		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Status Quo	No.	38.3333333	265.030303	743.438017	1142.42897	1634.33566	2141.68249	2844.30554	3721.39617	4484.66617	5787.14091	6967.97398	8065.94342	8170.68359	9783.73426	11882.0885	14994.1803	17297.9565
Stated Policy - 44 c/kWh Net FIT	No.	160.666667	337.531987	890.99864	1336.26462	1712.54339	2260.87211	3053.87082	4080.17927	4922.88479	6227.76915	7379.03618	8876.28907	9073.35933	10663.4539	12815.6032	15962.9056	19104.0885
Stated Policy - 60 c/kWh Net FIT	No.	152	303.700337	1507.37408	1688.29705	1903.7843	2788.26084	3369.14226	4741.71946	5111.00282	6361.14426	7859.3511	9461.49943	9908.75363	11937.1384	13907.2206	18249.9299	22003.1009
Stated Policy - 60 c/kWh Gross FIT	No.	535.333333	1765.48485	4625.28436	13046.1761	25510.1577	45485.4758	66677.9284	66684.7896	66691.7202	66698.7207	66705.792	66712.9346	66720.1495	66727.4372	66734.7985	66742.2342	66749.745

Proportion of solar to total demand		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Status Quo	%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.02%	0.02%	0.02%	0.03%	0.04%	0.04%	0.04%	0.05%	0.06%	0.07%	0.08%
Stated Policy - 44 c/kWh Net FIT	%	0.00%	0.00%	0.01%	0.01%	0.01%	0.01%	0.02%	0.02%	0.03%	0.03%	0.04%	0.04%	0.05%	0.06%	0.07%	0.08%	0.09%
Stated Policy - 60 c/kWh Net FIT	%	0.00%	0.00%	0.01%	0.01%	0.01%	0.02%	0.02%	0.03%	0.03%	0.03%	0.04%	0.05%	0.05%	0.06%	0.07%	0.09%	0.11%
Stated Policy - 60 c/kWh Gross FIT	%	0.00%	0.01%	0.03%	0.08%	0.16%	0.27%	0.39%	0.38%	0.38%	0.37%	0.36%	0.36%	0.35%	0.34%	0.33%	0.33%	0.33%

Total Cost of Supply - Residential Sector		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Status Quo	\$M	1845.46921	1778.26808	1987.10831	2021.55292	2109.54103	2151.20106	2153.06194	2254.69074	2296.55857	2365.48397	2461.14484	2600.05396	2632.94067	2713.12085	2695.75044	2714.51232	2813.0571
Stated Policy - 44 c/kWh Net FIT	\$M	1845.71935	1778.41789	1987.40386	2021.93781	2109.68836	2151.421	2153.4575	2255.37473	2297.39231	2366.31133	2461.89246	2601.57654	2634.61057	2714.71447	2697.4543	2716.26568	2816.48128
Stated Policy - 60 c/kWh Net FIT	\$M	1845.70795	1778.35748	1988.64445	2022.65251	2110.07693	2152.4725	2154.08317	2256.68265	2297.75741	2366.55828	2462.8106	2602.68055	2636.24025	2717.27893	2699.64693	2721.16048	2822.58603
Stated Policy - 60 c/kWh Gross FIT	\$M	1846.52002	1781.47599	1995.25401	2046.29948	2158.67392	2240.2234	2284.20094	2383.51804	2424.14124	2490.17295	2582.94354	2719.29001	2751.68129	2828.46139	2807.36016	2819.88753	2913.39424

Difference in Costs of Supply of No FIT Case		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Status Quo	\$M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stated Policy - 44 c/kWh Net FIT	\$M	0.25014019	0.14980789	0.2955499	0.38489159	0.1473285	0.21994205	0.39556587	0.68399712	0.83374607	0.8273606	0.74761705	1.52258162	1.66990129	1.59361823	1.70385868	1.75337286	3.42417128
Stated Policy - 60 c/kWh Net FIT	\$M	0.23874453	0.08940268	1.53614022	1.0959654	0.53589664	1.27144173	1.02122786	1.99190815	1.9884038	1.0743189	1.6657591	2.62658839	3.29958072	4.15807533	3.89648267	6.64815915	9.52892672
Stated Policy - 60 c/kWh Gross FIT	\$M	1.05081658	3.20950999	8.14570238	24.7455586	49.1328861	89.0223344	131.138999	128.825303	127.582669	124.68898	121.798691	119.226049	118.74062	115.340535	111.609712	105.375216	100.33714

Difference in Costs of Supply per KW Installed Capacity		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Status Quo	\$/kW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stated Policy - 44 c/kWh Net FIT	\$/kW	1363.16179	1377.51181	1335.26994	1323.77298	1255.87342	1230.2081	1258.36967	1270.36575	1268.38679	1251.78934	1212.49624	1252.61907	1233.29727	1207.67134	1216.8054	1206.6529	1263.9073
Stated Policy - 60 c/kWh Net FIT	\$/kW	1400.26116	1541.29126	1340.54868	1342.9332	1325.90625	1310.94371	1297.20073	1301.48825	1273.03409	1247.74986	1245.83191	1254.73926	1265.61095	1287.28752	1282.70899	1361.31665	1350.14302
Stated Policy - 60 c/kWh Gross FIT	\$/kW	1409.54606	1426.01676	1398.93952	1385.86942	1371.90072	1369.24386	1369.59169	1364.02329	1367.29048	1364.69924	1359.25834	1355.296	1352.02623	1350.3458	1356.47765	1357.54175	1352.6594

Total FIT Impost		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Average avoided retail cost	\$/MWh	220	223.3	236.2495	240.753243	245.420541	250.263449	255.295161	260.530124	265.984166	271.674627	277.620515	283.842668	290.363938	297.019469	301.365961	305.778086	310.256826
Status Quo	\$M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stated Policy - 44 c/kWh Net FIT	\$M	0.08001559	0.15499036	0.35876517	0.49193741	0.57297987	0.6819222	0.82123689	0.96445857	1.00392975	1.06922173	1.02889207	0.95163395	0.67771524	0.45378739	0.20480982	-0.1692206	-0.71036894
Stated Policy - 60 c/kWh Net FIT	\$M	0.13357838	0.24903469	1.1141916	1.17610474	1.24467043	1.70464865	1.92047249	2.51126042	2.49556662	2.85712391	3.21914339	3.50380649	3.28385819	3.50656478	3.63589549	4.23975077	4.39613531
Stated Policy - 60 c/kWh Gross FIT	\$M	0.46495718	1.3677426	3.34693186	9.06084252	16.7535057	28.1310852	38.651115	35.9587927	33.2817844	30.616317	27.9583998	25.30					

Allocative effects
 MMA sourced data
 Distributional effects

COSTS - Status Quo

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Private																		
NPV of PV systems - including installation/meter																		
Annual take up	38.33	226.70	478.41	398.99	491.91	507.35	702.62	877.09	763.27	1302.47	1180.83	1097.97	104.74	1613.05	2098.35	3112.09	2303.78	
Cumulative take up	38.33	265.03	743.44	1142.43	1634.34	2141.68	2844.31	3721.40	4484.67	5787.14	6967.97	8065.94	8170.68	9783.73	11882.09	14994.18	17297.96	
Average installed Cost of PV System	\$718,750.00	\$4,250,568.18	\$8,970,144.63	\$7,481,080.43	\$9,223,250.44	\$9,512,752.97	\$13,174,182.29	\$16,445,449.28	\$14,311,312.41	\$24,421,401.42	\$22,140,620.12	\$20,586,926.89	\$1,963,878.17	\$30,244,700.17	\$39,344,141.59	\$58,351,721.30	\$43,195,804.35	
NPV (\$)	\$215,368,078.99																	
NPV of cost of electricity to households																		
Cost of electricity supply to households \$/M	1845.47	1778.27	1987.11	2021.55	2109.54	2151.20	2153.06	2254.69	2296.56	2365.48	2461.14	2600.05	2632.94	2713.12	2695.75	2714.51	2813.06	
NPV (\$)	\$28,797,759,048.67																	
Cost of capital	\$26,953.13	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	\$53,906.25	
		\$159,396.31	\$336,380	\$280,540.52	\$345,871.89	\$356,728.24	\$494,031.84	\$616,704.35	\$1,233,408.70	\$1,073,348.43	\$915,802.55	\$830,273.25	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	
				\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	
				\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	\$318,792.61	
				\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	\$1,233,408.70	
				\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	\$988,063.67	
				\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	\$691,743.78	
				\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	\$561,081.03	
				\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	
				\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	\$4,376,379.10	
				\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	\$3,239,685.33	
				\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	\$1,475,405.31	
				\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	\$2,950,810.62	
				\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	
				\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	
				\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	
				\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	
				\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	
				\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	
				\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	
				\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	
				\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	
				\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	
				\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	
				\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	
				\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	
				\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	
				\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	
				\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	
				\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	
				\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	
				\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	
				\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	
				\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	\$1,134,176.26	
				\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	\$1,831,605.11	
				\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	\$1,660,546.51	
				\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	\$772,009.76	
				\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	\$1,544,019.52	
				\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	\$2,268,352.51	
				\$1,134,176.26	\$1													

Allocative effects
 MMA sourced data
 Distributional effects

BENEFITS - Staus Quo

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Private																	
Total generation MWh per year	91,297,416.08	591,692,515.1	1,647,535,292	2,524,001,941	3,604,952,046	4,722,256,689	6,261,163,978	8,176,426,557	9,839,217,332	12,680,402,971	15,258,696,52	17,646,769,02	17,860,812,69	21,385,860,64	26,090,224,81	33,238,867,55	38,465,018,12
REC rebate	\$3,652	\$23,668	\$65,901	\$100,960	\$144,198	\$188,890	\$250,447	\$327,057	\$393,569	\$507,218	\$610,348	\$705,871	\$714,433	\$855,434	\$1,043,209	\$1,329,555	\$1,538,601
NPV (\$)	\$5,658,914.27																
Solar Homes and communities rebate	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Number of installations	38,333,333.33	226,696,969.7	478,407,713.5	398,990,956.4	491,906,669	507,346,824.9	702,623,055.4	877,090,629.4	763,269,995	1,302,474,742	1,180,833,073	1,097,969,434	104,740,169.2	161,305,067.6	209,354,218	311,209,180.3	230,377,623.2
Total rebate based on % of households receiving rebate	\$20,696,666.7	\$154,153,394	\$253,172,452	\$271,913,503	\$344,965,492	\$449,958,408	\$477,636,777	\$596,421,627.9	\$190,235,966	\$856,628,248	\$029,664,897	\$466,192,152	\$122,333,190.5	\$109,687,444.8	\$142,688,088.66	\$211,622,244.26	\$166,657,838
NPV (\$)	\$76,106,823.32																
Total Impost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV (\$)	\$0.00																
System																	
Line loss	Difficult to quantify																
Avoidance of augmentation	Difficult to quantify																
Community Benefits																	
Avoided Greenhouse Gases (t CO2e)	110,408,694.9	773,091,903.1	2,151,063,795	3,280,569,477	4,646,757,96	6,178,551,528	8,045,361,5	10,547,120,83	12,075,401,56	14,666,104,15	17,337,764,02	19,982,112,74	20,440,929,26	23,741,752,97	28,277,748,07	36,211,625,68	42,643,505,55
Cost of carbon/t	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
Cost of carbon	0	0	2,581,276,554	4,264,740,321	69,701,369.4	98,856,824.45	144,816,507	200,395,295.8	253,583,432.8	337,320,395.5	450,781,864.5	559,499,156.7	633,668,807.2	807,219,601.1	961,443,434.5	1,231,202,073	1,449,879,169
NPV (\$)	\$7,266,828.12																
Government																	
Providing avenue for consumers to actively manage their carbon footprint	Difficult to quantify																
Sensitivity																	
Total Impost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change in electricity price	\$0.00																
Carbon abated																	
Status Quo	73.97	517.97	1,441.21	2,197.98	3,113.33	4,139.63	5,390.39	7,066.57	8,090.52	9,826.29	11,616.30	13,388.02	13,695.42	15,906.97	18,946.09	24,261.92	28,571.15
Total	168,243.75																
Cost of carbon/t	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
Cost of carbon	\$0.00	\$0.00	\$17,294.55	\$28,573.76	\$46,699.92	\$66,234.07	\$97,027.06	\$134,264.85	\$169,900.90	\$226,004.66	\$302,023.85	\$374,864.44	\$424,558.10	\$540,837.13	\$644,167.10	\$824,905.39	\$971,419.06
NPV (\$)	\$4,868,774.84																

251110.1

Allocative effects
 MMA sourced data
 Distributional effects

BENEFITS - 44c Net Tariff

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Private																	
Installed MWh per year	363,707,232	753,477,673	1,970,961,046	2,944,588,981	3,764,598,208	4,962,368,879	6,693,325,885	8,929,330,56	10,755,319,12	13,591,899,07	16,085,356,29	19,341,076,49	19,726,637,78	23,173,911,19	27,978,347,5	35,188,430,07	42,253,806,41
REC rebate	\$14,548	\$30,139	\$76,838	\$117,784	\$150,584	\$198,495	\$267,733	\$357,173	\$430,213	\$543,656	\$643,414	\$773,643	\$789,066	\$926,956	\$1,119,134	\$1,407,537	\$1,690,152
NPV (\$)	\$6,138,320.93																
Solar Homes and communities rebate	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Number of installations	160,666,667	176,865,319	553,466,531	445,265,975	376,278,762	548,328,721	792,998,7082	1026,308,459	842,705,5146	1304,884,358	1151,267,028	1497,252,891	197,070,2599	1590,094,539	2152,149,366	3147,302,39	3141,180,865
Total rebate based on % of households receiving rebate	1092533.333	1202684.175	3763973.241	3027808.661	2558695.617	3728635.303	5392391.215	6978897.524	5730397.499	8873213.638	7828615.793	10181319.66	1340077.768	10812642.86	14634615.69	21401656.25	21360029.88
NPV (\$)	\$6,048,503.88																
Total Impost	80015.59116	154990.3586	358765.1698	491937.4121	572979.8686	681922.1985	821236.8929	964458.5719	1003929.749	1069221.731	1028892.069	951633.9508	677715.2424	453787.39	204809.8161	-169220.596	-710368.942
NPV (\$)	\$6,560,989.38																
System																	
Line loss	Difficult to quantify																
Avoidance of augmentation	Difficult to quantify																
Community Benefits																	
Avoided Greenhouse Gases (Mt CO2e)	439,842,036	984,476,696	2,573,336,649	3,827,227,142	4,852,540,746	6,492,709,004	8,600,645,911	11,518,323,77	13,199,708,16	15,719,758,66	18,277,059,98	21,900,642,02	22,576,285,55	25,726,777,34	30,335,806,83	38,335,761,4	46,843,873,1
Cost of carbon/1	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
Cost of carbon	0	0	30880.03978	49753.95285	72788.11119	103883.3441	154811.6264	218848.1517	277193.8714	361554.4491	475203.5595	613217.9766	699864.8521	874710.4296	1031417.432	1303415.888	1592691.685
NPV (\$)	\$7,860,235.37																
Government																	
Providing avenue for consumers to actively manage their carbon footprint	Difficult to quantify																
Sensitivity																	
Total Impost	80015.59116	154990.3586	354108.7842	477759.0252	545262.5767	632246.2064	735798.2075	824876.9958	803677.6281	773826.669	626985.8285	402651.676	47645.77815	-372184.9456	-891313.9895	-1675599.705	-2676798.719
NPV (\$)	\$1,780,752.26																
Carbon abated																	
44c	294.69	659.60	1724.14	2564.24	3251.20	4350.12	5762.43	7717.28	8843.80	10532.24	12245.63	14673.43	15126.11	17236.94	20324.99	25684.96	31385.39
Total	182377.20																
Cost of carbon/1	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
Cost of carbon	\$0.00	\$0.00	\$20,689.63	\$33,335.15	\$48,768.03	\$69,601.84	\$103,723.79	\$146,628.26	\$185,719.89	\$242,241.48	\$318,386.38	\$410,856.04	\$468,909.45	\$586,055.39	\$691,049.68	\$873,288.64	\$1,067,103.43
NPV (\$)	\$5,266,357.70																

19104.09

272204.8

- Allocative effects
- MMA sourced data
- Distributional effects

COSTS - 60c Net FIT

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Private																	
Cost of PV systems																	
Annual take up	152.00	151.70	1203.67	180.92	215.49	884.48	580.88	1372.58	369.28	1250.14	1498.21	1602.15	447.25	2028.38	1970.08	4342.71	3753.17
Cumulative take up	152.00	303.70	1507.37	1688.30	1903.78	2788.26	3369.14	4741.72	5111.00	6361.14	7859.35	9461.50	9908.75	11937.14	13907.22	18249.93	22003.10
Average installed Cost of PV System	\$2,850,000.00	\$2,844,381.31	\$22,568,882.64	\$3,392,305.70	\$4,040,397.17	\$16,583,923.91	\$10,891,526.67	\$25,735,822.40	\$6,924,063.03	\$23,440,152.05	\$28,091,378.33	\$30,040,281.14	\$8,386,016.31	\$38,032,213.44	\$36,939,041.35	\$81,425,799.35	\$70,371,956.41
NPV (\$)	\$271,613,861.85																
Cost of electricity supply to households \$M	1845.71	1778.36	1988.64	2022.65	2110.08	2152.47	2154.08	2256.68	2297.76	2366.56	2462.81	2602.68	2636.24	2717.28	2699.65	2721.16	2822.59
NPV (\$)	\$28,824,886,134.13																
Cost of capital	\$106,875.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00	\$213,750.00
		\$106,664.30	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60	\$213,328.60
			\$846,333	\$254,422.93	\$303,029.79	\$1,243,794.29	\$816,864.50	\$1,930,186.68	\$519,304.73	\$1,758,011.40	\$2,106,853.37	\$2,253,021.09	\$628,951.22	\$2,852,416.01	\$2,770,428.10	\$6,106,934.95	\$5,277,896.73
				\$127,211.46	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93	\$254,422.93
					\$151,514.89	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79	\$303,029.79
						\$621,897.15	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29	\$1,243,794.29
							\$408,432.25	\$816,864.50	\$816,864.50	\$816,864.50	\$816,864.50	\$816,864.50	\$816,864.50	\$816,864.50	\$816,864.50	\$816,864.50	\$816,864.50
								\$965,093.34	\$1,930,186.68	\$1,930,186.68	\$1,930,186.68	\$1,930,186.68	\$1,930,186.68	\$1,930,186.68	\$1,930,186.68	\$1,930,186.68	\$1,930,186.68
									\$519,304.73	\$519,304.73	\$519,304.73	\$519,304.73	\$519,304.73	\$519,304.73	\$519,304.73	\$519,304.73	\$519,304.73
										\$879,005.70	\$1,758,011.40	\$1,758,011.40	\$1,758,011.40	\$1,758,011.40	\$1,758,011.40	\$1,758,011.40	\$1,758,011.40
											\$1,053,426.69	\$2,106,853.37	\$2,106,853.37	\$2,106,853.37	\$2,106,853.37	\$2,106,853.37	\$2,106,853.37
												\$1,126,510.54	\$2,253,021.09	\$2,253,021.09	\$2,253,021.09	\$2,253,021.09	\$2,253,021.09
													\$314,475.61	\$2,852,416.01	\$2,852,416.01	\$2,852,416.01	\$2,852,416.01
														\$1,426,208.00	\$1,385,214.05	\$2,770,428.10	\$2,770,428.10
															\$3,053,467.48	\$6,106,934.95	\$5,277,896.73
Total costs	106875	320414.2992	1273411.697	808712.9893	1136046.207	2850222.753	3453622.357	594070.127	5754333.877	8131698.619	10412972.98	12739077.92	12555994.21	18743607.4	21391053.64	29449281.39	27791204.95
NPV	\$105,618,514.08																
Government																	
Advertising costs associated with the new scheme																	
NPV (\$)	\$9,661.84																
Solar Homes and communities rebate																	
Number of installations	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Total rebate based on % of households receiving rebate	152	151.7003367	1203.673741	180.9229705	215.487849	884.4759417	580.8814226	1372.577195	369.2833615	1250.141443	1498.206844	1602.148328	447.254203	2028.384717	1970.082206	4342.709299	3753.171009
NPV (\$)	\$98,505,293.90																
Network																	
Labour cost of implementation																	
NPV (\$)	\$1,129,913.67																
Total impost (\$)	\$133,578.38	\$249,034.69	\$1,114,191.60	\$1,176,104.74	\$1,244,670.43	\$1,704,648.65	\$1,920,472.49	\$2,511,260.42	\$2,499,566.62	\$2,857,123.91	\$3,219,143.39	\$3,503,806.49	\$3,283,858.19	\$3,506,564.78	\$3,635,895.49	\$4,239,750.77	\$4,396,135.31
NPV (\$)	\$27,956,894.49																
Retailers																	
Installed MWh per year																	
REC rebate	351.5220521	688.5117168	3334.650009	3729.37548	4193.743837	6123.152276	7382.292323	10376.04447	11158.43502	13865.04571	17106.97366	20573.09137	21542.66858	26030.55559	30408.13067	40519.69311	48902.85157
NPV (\$)	\$6,856,233.54																
	0.04%																

22003.10

■ Allocative effects
■ MMA sourced data
■ Distributional effects

BENEFITS - 44c Net Tariff

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Private																	
Installed MWh per year	351,522,052	688,511,716	333,650,009	372,937,548	419,743,837	612,315,227	738,229,223	1,037,644,447	1,115,435,502	1,385,045,711	1,710,973,661	2,057,091,371	2,154,666,658	2,603,555,559	3,048,130,671	4,051,693,111	4,892,851,571
REC rebate	\$14,061	\$27,540	\$133,386	\$149,175	\$167,750	\$244,926	\$295,292	\$415,042	\$446,337	\$554,602	\$684,279	\$822,924	\$861,707	\$1,041,222	\$1,216,325	\$1,620,788	\$1,956,114
NPV (\$)	\$6,856,233.54																
Solar Homes and communities rebate	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Number of installations	152	151,700,367	1203,673,741	180,922,9705	215,487,849	884,475,9417	580,881,4226	1372,577,195	369,283,615	1250,141,443	1498,206,844	1602,148,328	447,254,203	2028,384,717	1970,082,206	4342,709,299	3753,171,009
Total rebate based on % of households receiving rebate	1033600	1031562.28	8184981.437	1230276.199	1465317.373	6014436.404	3949993.674	9333524.923	2511126.858	8500961.81	10187806.54	10894608.63	3041328.581	13793016.07	13396559	29530423.23	25521562.88
NPV (\$)	\$98,505,293.90																
Total Impost	133578.3798	249034.688	1114191.602	1176104.737	1244670.431	1704648.651	1920472.487	2511260.417	2499566.619	2857123.914	3219143.392	3503806.492	3283858.193	3506564.777	3635895.487	4239750.787	4396135.316
NPV (\$)	\$27,956,694.49																
System																	
Line loss																	
Avoidance of augmentation																	
Community Benefits																	
Avoided Greenhouse Gases (Mt CO2e)	425,106,127.6	899,593,958.8	435,803,948	484,252,759	540,706,459	801,146,852	948,939,183	1,338,450,166	1,369,441,124	1,603,257,728	1,943,777,741	2,329,699,671	2,465,654,443	2,889,113,115	3,297,032,387	4,414,864,445	5,421,520,968
Cost of carbon	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
NPV (\$)	\$8,775,692.63																
Government																	
Providing avenue for consumers to actively manage their carbon footprint																	
Sensitivity																	
Total Impost	133578.3798	249034.688	1106313.508	1158147.552	1213793.505	1643352.603	1826239.312	2349064.088	2291808.927	2555781.424	2791711.177	2919854.379	2595784.645	2578774.961	2444578.669	2505145.98	2120268.791
NPV (\$)	\$32,483,232.59																
Carbon abated																	
Status Quo	284.82	602.73	2917.05	3247.66	3621.82	5367.68	6355.58	8967.62	9175.28	10744.29	13023.38	15608.12	16518.62	19361.74	22090.12	29576.39	36324.19
Total	203787.07																
Cost of carbon	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
Cost of carbon	\$0.00	\$0.00	\$35,004.58	\$42,219.57	\$54,327.35	\$85,882.89	\$114,400.43	\$170,384.71	\$192,680.79	\$247,118.72	\$338,607.82	\$437,027.33	\$512,077.17	\$658,299.02	\$751,063.98	\$1,005,597.23	\$1,235,022.48
NPV (\$)	\$5,879,714.06																

304159.8

Allocative effects
MMA sourced data
Distributional effects

COSTS - 60c Gross FIT

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Private																	
Cost of PV systems																	
Annual take up	535.33	1230.15	2859.80	8420.89	12463.98	19975.32	21192.45	6.86	6.93	7.00	7.07	7.14	7.21	7.29	7.36	7.44	7.51
Cumulative take up	535.33	1765.48	4625.28	13046.18	25510.16	45485.48	66677.93	66684.79	66691.72	66698.72	66705.79	66712.93	66720.15	66727.44	66734.80	66742.23	66749.74
Average installed Cost of PV System	\$10,037,500.00	\$23,065,340.91	\$53,621,240.82	\$157,891,720.52	\$233,699,654.57	\$374,537,214.21	\$397,358,486.58	\$128,648.06	\$129,947.53	\$131,260.13	\$132,585.99	\$133,925.25	\$135,278.03	\$136,644.47	\$138,024.72	\$139,418.91	\$140,827.18
NPV (\$)	\$1,031,839,604.22																
Cost of electricity supply to households \$M	1846.52	1781.48	1995.25	2046.30	2158.67	2240.22	2284.20	2383.52	2424.14	2490.17	2582.94	2719.28	2751.68	2828.46	2807.36	2819.89	2913.39
NPV (\$)	\$29,820,184,593.68																
Cost of capital	\$376,406.25	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50	\$752,812.50
		\$864,950.28	\$1,729,900.57	\$11,841,879.04	\$17,527,474.09	\$28,090,291.07	\$29,801,886.49	\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42	\$10,562.04
			\$2,010,797	\$5,920,939.52	\$8,763,737.05	\$14,045,145.53	\$14,900,943.25	\$4,824.30	\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,456.42
									\$9,648.60	\$9,746.06	\$9,844.51	\$9,943.95	\$10,044.39	\$10,145.85	\$10,248.34	\$10,351.85	\$10,

Allocative effects
 MMA sourced data
 Distributional effects

BENEFITS - 44c Net Tariff

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Private																	
Installed MWh per year	1223,571,518	3781,428,247	1,001,690,022	2,873,152,609	5,644,606,655	10,104,754,545	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711	14,857,480,711
REC rebate	\$48,943	\$151,257	\$400,680	\$1,149,261	\$2,257,944	\$4,041,910	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992	\$5,942,992
NPV (\$)	\$50,259,768.77																
Solar Homes and communities rebate	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
Number of installations	535,333,333	1,230,151,515	2,959,799,511	8,420,891,761	12,463,981,588	19,975,318,091	21,192,452,262	6,861,229,685	6,930,535,036	7,005,404,444	7,071,252,971	7,142,679,767	7,214,828,048	7,287,705,059	7,361,318,282	7,436,750,321	7,510,782,861
Total rebate based on % of households receiving rebate	\$840,266,987	\$365,030,303	\$944,663,671	\$726,206,396	\$475,907,472	\$358,321,631	\$441,086,778	\$465,636,186	\$712,763,824	\$760,674,999	\$804,520,119	\$857,022,242	\$906,830,731	\$956,394,671	\$1,006,964,332	\$1,056,590,222	\$1,107,323,441
NPV (\$)	\$374,213,829.80																
Total Impost	464,957,176.9	1,367,742,597	3,346,931,864	9,060,842,521	16,753,505,731	28,131,085,221	38,651,114,981	39,587,929,691	33,281,784,391	30,616,316,971	27,958,399,781	25,303,799,251	22,648,011,121	20,014,447,391	17,765,066,731	15,546,024,761	13,356,173,221
NPV (\$)	\$243,195,552.54																
System																	
Line loss	Difficult to quantify																
Avoidance of augmentation	Difficult to quantify																
Community Benefits																	
Avoided Greenhouse Gases (Mt CO2e)	1479,701.62	5,271,032,417	13,746,614,051	38,354,155,581	74,183,141,261	133,975,619,191	192,648,482,811	193,395,728,111	183,999,873,211	173,403,638,111	170,353,926,311	169,766,775,311	171,583,856,111	166,441,854,111	162,558,613,211	163,335,541,811	166,212,412,511
Cost of carbon/1	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
Cost of carbon	0	0	164,959,368.6	498,604,025.5	1,124,447,119	2,143,609,904	3,467,672,691	3,674,518,834	3,863,997,337	3,988,283,877	4,429,202,084	4,753,469,707	5,319,993,305	5,659,023,038	5,526,992,851	5,534,084,423	5,651,222,024
NPV (\$)	\$55,806,504.38																
Government																	
Providing avenue for consumers to actively manage their carbon footprint	Difficult to quantify																
Sensitivity																	
Total Impost	464,957,176.9	1,367,742,597	3,323,266,775	8,922,498,359	16,337,896,311	27,119,542,841	36,754,593,511	33,636,299,911	30,515,486,161	27,387,196,551	24,246,132,481	21,086,612,281	17,902,526,861	14,718,894,151	11,944,266,091	9,185,695,951	6,441,721,016
NPV (\$)	\$291,355,329.01																
Carbon abated																	
Status Quo	991.40	3531.59	9210.23	25697.28	49689.30	89763.66	129074.48	129575.14	123279.92	116180.44	114137.13	113743.74	114961.05	111516.04	108914.27	109434.81	111362.32
Total	1461062.81																
Cost of carbon/1	\$0.00	\$0.00	\$12.00	\$13.00	\$15.00	\$16.00	\$18.00	\$19.00	\$21.00	\$23.00	\$26.00	\$28.00	\$31.00	\$34.00	\$34.00	\$34.00	\$34.00
Cost of carbon	\$0.00	\$0.00	\$110,522.78	\$334,064.70	\$745,339.57	\$1,436,218.64	\$2,323,340.70	\$2,461,927.62	\$2,588,878.22	\$2,672,150.06	\$2,967,565.40	\$3,184,824.70	\$3,563,792.51	\$3,791,545.44	\$3,703,085.21	\$3,720,783.64	\$3,786,318.78
NPV (\$)	\$37,390,357.94																

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