

Advantages		Challenges	
Reducing Electricity Bills:		Lifetime of Battery Too Short:	
<ul style="list-style-type: none"> • DUoS, TRIADS, Capacity Charges 		<ul style="list-style-type: none"> • Lifecycle nature still difficult to predict 	
Supply Levelling:		Cost of Battery High:	
<ul style="list-style-type: none"> • Maximising use of PV's and other Renewable Sources • Providing predictable energy profile for new building 		<ul style="list-style-type: none"> • Installation, maintenance • Complexity in retrofitting 	
Emergency Power:		Change in Energy Regulation and Pricing	
<ul style="list-style-type: none"> • Supporting crucial systems, in power cuts 		<ul style="list-style-type: none"> • Shift in costs could reduce the battery's value 	
Increasing Sustainability:		Legal and Commercial Barriers to Entry:	
<ul style="list-style-type: none"> • Reducing usage during peak demand periods 		<ul style="list-style-type: none"> • Energy companies penalise battery use 	
Financial Incentives:		Negative Environmental Effects:	
<ul style="list-style-type: none"> • Provide fast frequency supply to the grid 		<ul style="list-style-type: none"> • Effects of mass Li-ion mining not understood 	
Security		Low Level of Technology Maturity:	
<ul style="list-style-type: none"> • Protection against cyber attacks 		<ul style="list-style-type: none"> • Batteries have not been tested for the lifetime of the project 	