

Advantages		Challenges		Severity
<b>Reducing Electricity Bills:</b>		<b>Lifetime of Battery Too Short:</b>		4
• DUoS, TRIADS, Capacity Charges		• Cyclelife difficult to predict for application		
<b>Supply Levelling:</b>		<b>Cost of Battery High:</b>		5
• Maximising use of PV's and other Renewable Sources		• Purchase,Installation, maintenance		
• Providing predictable energy profile for new building		• Complexity in retrofitting		
<b>Emergency Power:</b>		<b>Change in Energy Regulation and Pricing</b>		5
• Supporting crucial systems, in power cuts		• Frequently changing costs structures		
<b>Increasing Sustainability:</b>		<b>Legal and Commercial Barriers to Entry:</b>		3
• Reducing usage during peak demand periods		• Energy companies may penalise battery use		
<b>Support Regional Electricity Grid:</b>		<b>Negative Environmental Effects:</b>		2
•Provides fast frequency supply and increases flexibility		• Effects of mass Li-ion mining not understood		
<b>Security:</b>		<b>Low Level of Technology Maturity:</b>		2
• Protection against cyber attacks		• Technology Still Maturing, Lacks Extensive Tests		
Measure of Challenges - Severity Scale 1 (Low), 5 (High)				