



renewable energy
storage solutions



immersa

INTRODUCTION TO IMMERSA

Immersa was founded in April 2016 and run by a team of renewable energy experts, identifying the need for energy storage to support renewable energy and give assistance on resolving the energy trilemma. That being secure, sustainable and affordable energy.

With a management team of renewable industry specialists, focus is given to how Energy Storage Systems can be used to;

- reduce carbon emissions and the use of low carbon energy technologies
- save on energy costs and;
- Offer more sustainable off grid solutions

Challenges when considering Energy Storage and Renewable generation for Temporary events

- What are the benefits?
- Is it feasible to apply energy storage and what are the cost Implications - This is bound to cost more money!
- It will not provide the same power as a generator – we don't want to risk it!
- How can you prove the benefits?
- What happens next?





What are the Benefits?



With the right solutions you can;

- Reduced Energy Usage by maximising the efficiency of your generators
- Increased use of restricted grid connections
- Lower Carbon Emissions
- Maximise use of local renewable energy
- Benefit the wider community through reduced noise and air pollution





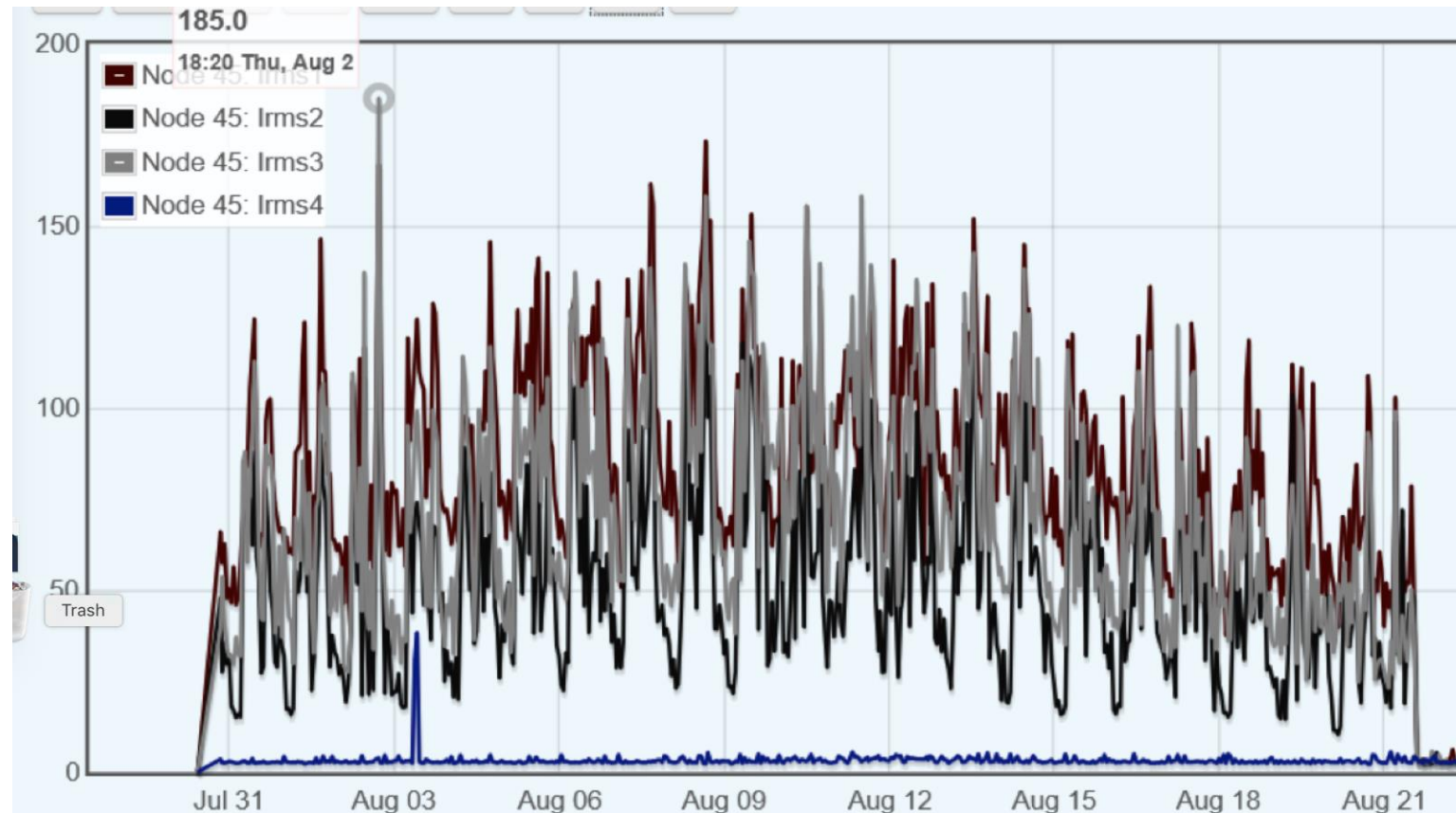
Is it feasible to apply energy storage and what are the cost Implications?

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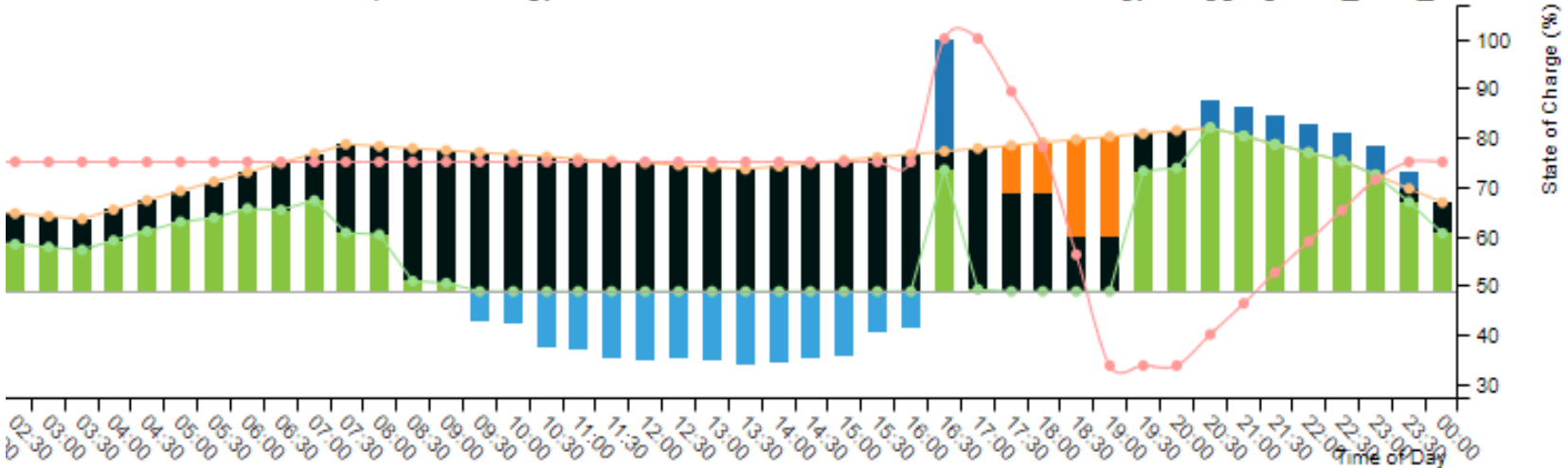
INTERMITTENT DEMAND CREATES INEFFICIENT RUN RATES AND OVER SIZED SYSTEMS



THROUGH CONSISTENT RUN TIMES WE CAN SHIFT POWER AND INCREASE EFFICIENCY OF GENERATORS

WE GET THE MOTORWAY MILAGE RATHER THAN THE URBAN COSTS!!

Power Flows. PV = 500 kWp, Batt Energy = 497 kWh, & Batt Power = 249 kW, Strategy = Aggregation_from_Generation



Max Gen Grid Import for Non-Battery Load Post Investment - Max Gen FREE Non-Battery Load from Generation - Max Gen large from Generation - Max Gen Battery Discharge from Grid Post Investment - Max Gen Grid Import Pre Investment - Max Gen Final Grid Import - Max Gen Day State of Charge - Max Gen



**It will not provide the same
power as a generator!**

**We don't want to risk it at
our event!**



THIS IS NOT NEW – IT IS PROVEN TECHNOLOGY

THE SOLUTION GIVES THE SAME POWER AS CONVENTIONAL SYSTEMS



Anastacia concert in Germany on clean battery power

30-07-2010

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Anastacia concert in Germany on clean battery power

BMW and Aften powered the BR Rocktour last weekend with sustainable energy. The peaks in power demand for the main stage, where Anastacia performed on Sunday, were delivered from Aften's energy storage system which is based on RMI's high-voltage batteries. The storage container was charged with the first sustainable energy produced from the newly opened CHP (combined cycles) of RMI Comp/06 & Landst.

Andreas Plenk, Global Sales Director Energy Storage at Aften, comments: "In the Netherlands, various festivals and events have now been powered based on our mobile storage system, providing a clean alternative for traditional diesel generators that are not only polluting but also produce a lot of noise. As far as we know, this is the first time this system has been used in Germany."



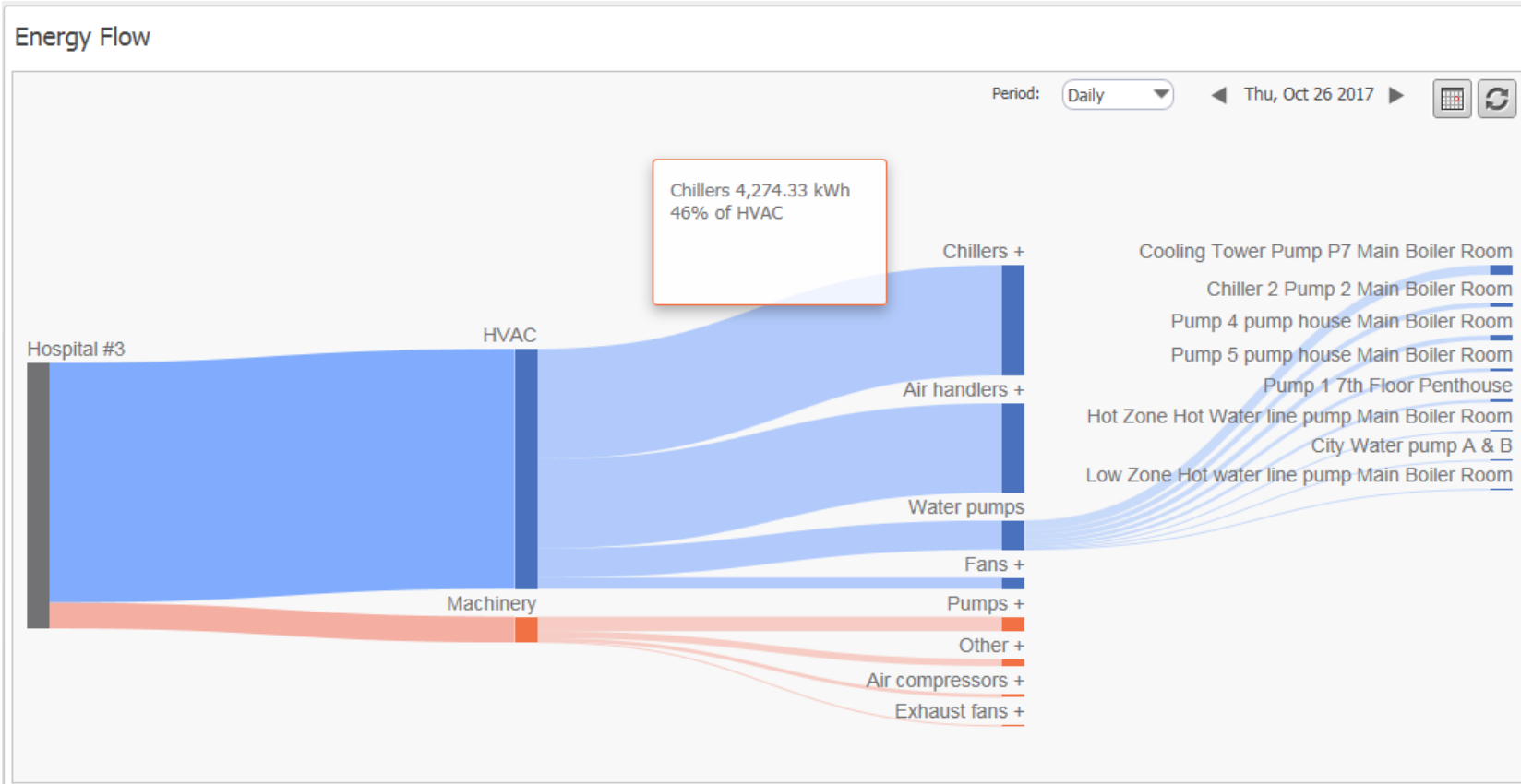


**How can you prove the
benefits?**

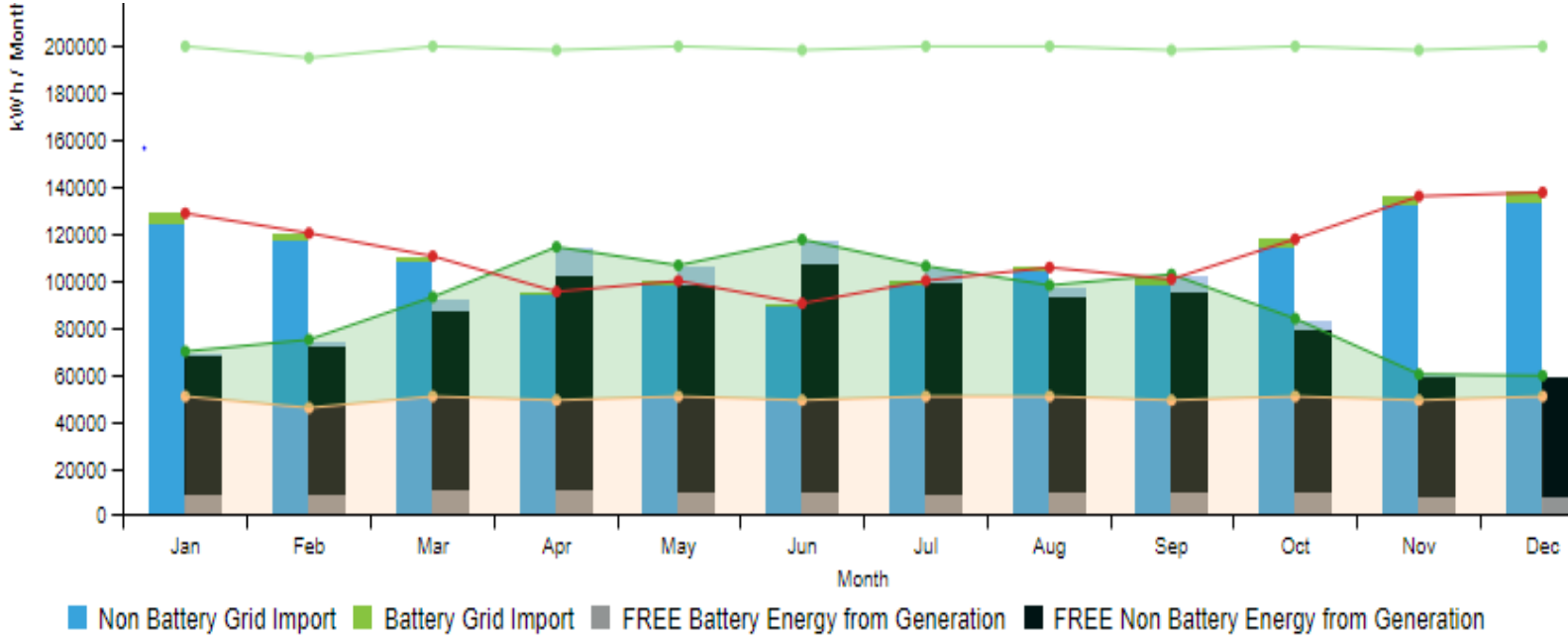


MONITOR REAL TIME CONSUMPTION

ANALYSE OUTPUTS AND POWER REQUIREMENTS AND SHOW PRE AND POST RESULTS



MODEL ENERGY AND FUEL PRE AND POST INVESTMENT





What happens next?



INVITATION TO PARTICIPATE IN FREE ENERGY STUDY

MONITOR POWER PRODUCTION AND CONSUMPTION TO PROVE THE BENEFITS

- Install monitoring equipment during your event to show
 - Production
 - Energy use
 - Produce an energy audit
 - Install a storage system
 - Compare between conventional methods of generation
 - Prove feasibility of storage





Questions?

