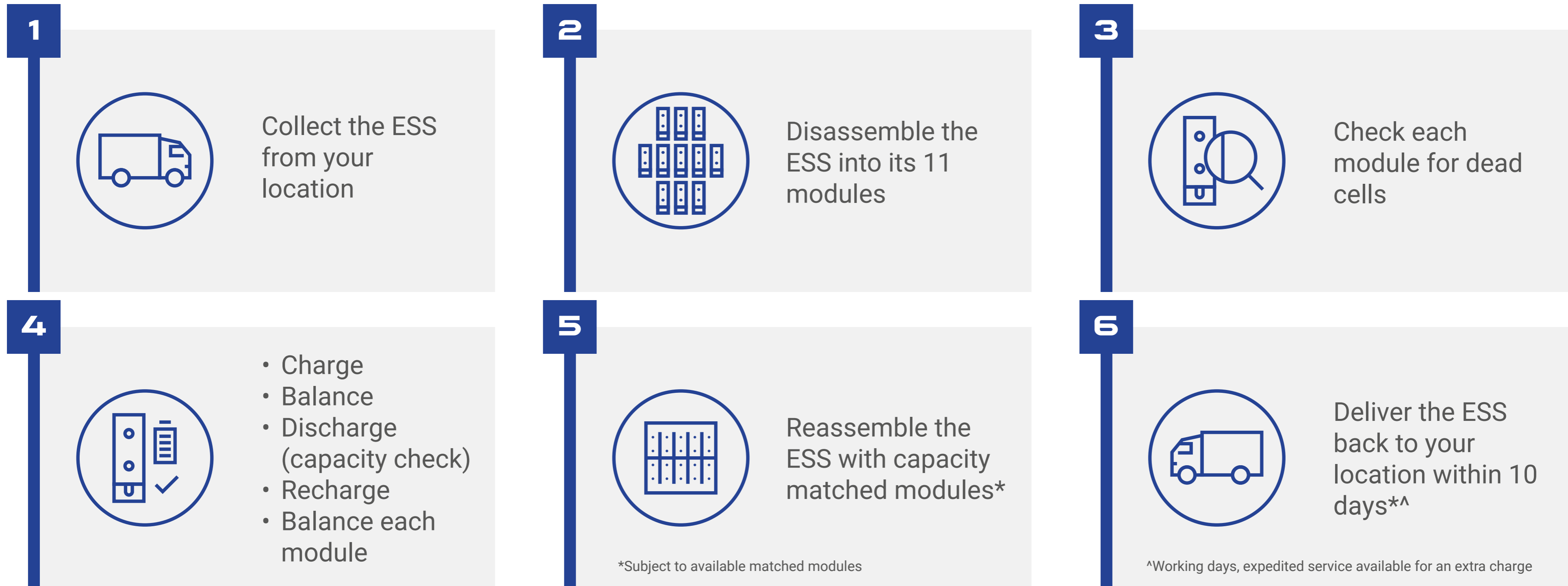


**ALTERTEK**  
BATTERY TECHNOLOGY SPECIALISTS

**VOLVO B5LH ESS  
REGENERATION**



### Generation 1 & Generation 2 BL5H ESS Regeneration



Expensive Generation 1 & 2 BL5H ESSs require replacing unnecessarily.

They fail for three main reasons:

- Cell fault
- State of health is below OEM recommendation
- Battery has become imbalanced

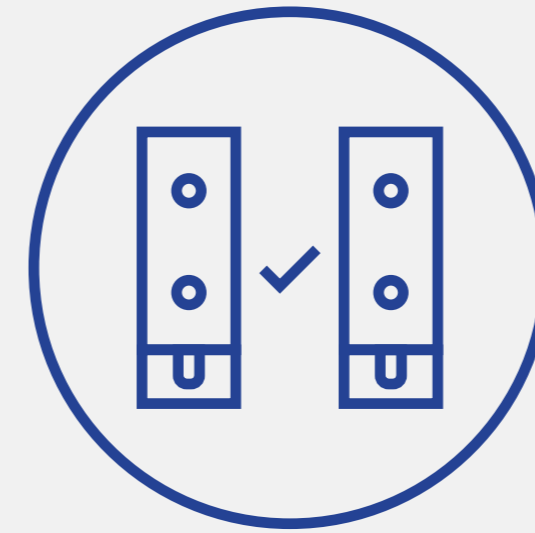




Replace modules with dead cells where necessary, reviving the whole battery.



Rebalance all cells in all modules reviving the module and battery.



Capacity match modules which maximises the state of health of the battery.

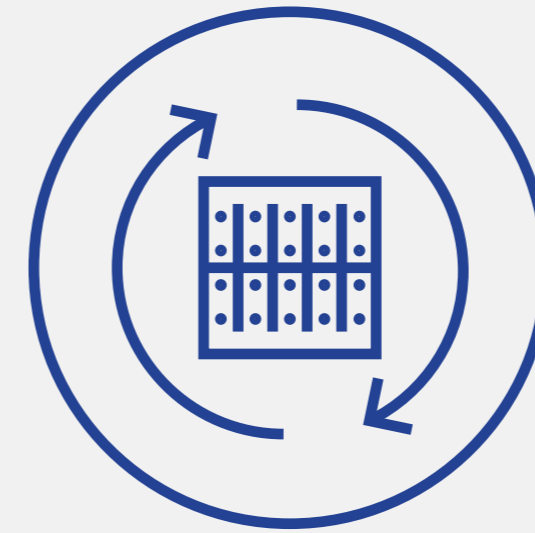




ESS life can be extended by years\*



New purchases of replacement ESSs can be deferred.



Revived ESSs can be created from multiple dead ones.



Environmental impact is massively reduced

\*Subject to usage, unexpected failure of cells and other components

**Altertek have developed proprietary equipment that allows us to automatically interrogate each of the battery modules and check key parameters.**

Once the equipment is happy there are no damaged cells it will automatically perform a balance charge followed by a full discharge to ascertain the state of health of the module.

Finally, the equipment performs a final balance charge before producing a full report of the conditioning of the module.

We then analyse the measured capacity of each module and if necessary replace modules with low capacities maximising the ESS capacity remaining.



**Altertek Ltd is a small team of highly experienced battery design engineers based in Romsey, Hampshire.**

We have designed large high voltage batteries for submarines right through to small packs for racing motorbikes and everything between.

Our team of engineers design our own software, circuit boards and electrical equipment which allows us to very quickly understand and manipulate batteries to get the very best from them.



# ALTERTEK

BATTERY TECHNOLOGY SPECIALISTS



0330 333 5034



[enquiries@altertek.com](mailto:enquiries@altertek.com)



[Click here to find us >](#)



[altertek.com](http://altertek.com)

