

March 2022

Lithium-iB-βatt-8-Gut Ac-1 technological gadgets, has led]cbŁ"H\Y`fgh@!]cb`VUHYf]Yg'k Y have reduced dramatically in rec [fck]b[`fYWLUf[YUV`Y`VUHYfmgY[]h]q`Ygha UHYX`h\Uh[`cVU`@!]cb`VL

> BUNK/HDILHHUO/120/WHW/15/120/HGWR EIBHGLQLHHUO/120022FLOW EIGHENHTLEHGWR120/16/12/50/L109

KAHOVLMARLWARGLHHOV2MANA WHOLOHGKWAVFENKIOWARI MOROWHKEWWLKCHZ @]!]cb'fY'dchYbh]U'`Ug'cbY'cZh\Y'acghig][b]WUbhf]g_`ZUV#cfg' hc'Wcbg]XYf'k \Yb'ibXYfkf]h]b['VUHYfmZUW/cfmidfc'YV#g''

Moving away from the thermal runaway concerns, the dchYbhJU`Zcf' fY'hc'cWV f'Uh'UbmYUf`]Yf'dc]bhXi f]b['

RISK AND INSURANCE CONSIDERATIONS

Fire and explosion

ÈNWERDERE WOU/BENTHFW), 19H5 WKILKIWDIWDEDDFD2/HGLEDDEPEW\ CODULKND 1700/GEND/WKD20/LC24K0/R FD2/WKIRVD2/D2/L501HFWGHD0

KHLDEHSVLQVKVKVDHRUQVCD 12/NSVKWKVK15HRL12/WHB2/VK0 WHF124HHFW12/K1124GWR F12/GF12/G1/D1/D2/20/WLPWR1[VL123210 12/F171761GH12/K1121310/02/20/



 $7 cgY UhhYbh]cb k]^ VY dU]X c fY gYdUfUh]cb VYhk YYb h Y dfc Wgg Vi]X]b[g j]h]g W ffYbhmVt a cb Zcf WtbbYVh]cbg to exist either directly or via bridge or conveyor systems.$

=bgi fYfg'k]``U'gc 'VY'_YYb'hc 'YghUV']g\`k \Uhh\Y'dfcW'Xi fYg' UfY'Zc``ck]b['U' fY'k]h\]b'h\Y'ZUVJ]mž'UbX'\ck 'h\YgY'UfY' communicated to the workforce.

Defects and machinery breakdown

: cf h\Y Wzbghfi Wgcb cZUbmdfcWgglXf]j Yb]bXi ghf]U`dfc YWz insurers will consider the level of defects and maintenance Wzj Yf h\ Uhh\Ymk]``VY`k]``]b['hc hU_Y`cb/dfYZYff]b[XYj Y`cdYfg'hc fY`mcb h\Y`[i UfUbhYYg'UbX`k UffUbh]Yg']ggi YX` Vmh\Y`gi dd`]Yfg'UbX`a Ubi ZUWi fYfg'';]j Yb h\Y`dchYbh]U` for damage during testing and commissioning and initial cdYfUh]cbgž]h]g']a dcfHUbh'r Wzbg]XYf'h\Y`Yj Y`cZWzj Yf` U[U]bghgi W\'k UffUbh]Ygžh\i g'Ybgi f]b['bc`gdYWJ W[Udg']b` Wzj Yf]b h\Y'Yj YbhcZ'U`a U/cf`cgg''

Building design is also, of course, of key interest and insurers k]``HJ_Y'Wta Zcfh]Z'h\Y'Ybh]fY'ZJWtcfmd`Ubb]b['UbX'XYg][b' is trusted to engineers and contractors who are highly YI dYf]YbWtX']b'h\]g'gYVttcf"

Proto-typicality

@!!cb VUHYfmdfcXi Wijcb ci hdi h\UgʻUWY`YfUHYX`UhU` d\Ybca YbU`gdYYXžVi hih\YfY`]gʻghj```UʻfUW`hc` ```XYa UbX''' 5gʻgi W žVUHYfmHYW bc`c[mUbX`h\Y`a Ubi ZUWi f]b[`dfcWgg` UfY`UXj UbWjb[`UhU`fUd]X`fUHY'''=bgi fYfg`UfY`h\YfYZcfY`dUnjb[` WfYZ``UHYbhjcb`hc`h\Y`dfcWgg`a Yh\cXc`c[m]bj c`j YX`UbX` k\Yfh\Yf`UbmcZ]hWbb`VY`XYYa YX`hc`VY`dfchcmd]Wi``]b`Ubm k Uhi'=bgi fYfg`k]``[YbYfU`mbch]bgi fY`dfchcmd]Wi``f]g_g`UbX` k]``fYei]fYfkUhUbUmdfcWfgg`\Ugʻftf`k]```]b`h\Y`bYUf`Z hi fYE \Uj YžU`dfcj Yb`fYZYfYbW'd`Ubhžcf`h\UhUbm fghcZU`_]bX` d`Ubhg`UfY`g]a d`mgWi'Y!i dg`cf`U`hYfbUhjj Y`UffUb[`Ya YbhcZ' existing technology. This will be key to obtaining the widest]bgi fUbW'dfc[fUa a Y`Uhih\Y`ck YghV&gH''

Delay risk

=bgi fYfg'k]``U'k Ung'WcgY`mYIUa]bY'h\Y'dchYbh]U`f]g_`UbX' WebgYeiYbWYg'cZXY`Unzig\ci`X'8Y`Um]b'GhUfHId'f8GIŁ]bgi fUbWY'VY'fYeiYghYX'Vmh\Y']bgi fYX' `cf'acfY Wetaacb`nzi fYei]fYX'Vmdfc'YVM`YbXYfg''

A Ubmf]g_g`\UjY'h\Y'dchYbh]U`'hc`Wɛbg]XYfUV`m]a dUWih\Y` dfc^YWigW\YXi`Y"'7cbWfbg'UfY'YI UWfVUhYX`Ug'VUhYfm a Ubi ZUMif]b[`cdYfUh]cbg'a cjY'hc`\][\!h\fci[\di h` Wɛbh]bi ci g'dfcWgg'k]h\``Uf[Y'g]b[`Y'a UW]bYg''

The trend in the Li-ion industry is towards new technology and larger factories to take advantage of economies of scale. However, this can lead to increased vulnerability to high delay `cggYg'Xi Y'hc'h\Y'gWJY'UbX'i b]ei Y``cb[!`YUX'fYd`UWa Ybh h]a Yg'Zcf`_YmYei]da Ybh''

=bgi fYfg'k]``gYY_'hc'i bXYfgHUbX'h\Y'VUg]g'cZ'h\Y'fYj Ybi Y' stream in some detail. To that extent, the following]bZcfa_Uh]cb'k]``Ugg]ghh\Ya_']b'h\UhdfcWfgg.

- : i ```VfYU_Xck b`cZ'h\Y`dfc^YVMYX`fYj Ybi Y"
- 5ggi a dh]cbg#ghfUhY[]Yg'hU_Yb']bhc'UWWti bh']b'h\Y' cdYfUh]cb'cZ'h\Y'ZUWtcfn'i
- Whether there is a degree of redundancy designed into the system.
- @YUX h]a Yg Zcf h\Y fYd UWa Ybhc Z W]h]WU Yei]da Ybh'

=b h\YWffYbhWebghfiWbjcb]bgifUbW'a Uf_Yhd`UW'h\YfY]g``]_Y`mhc`VY``]hhYUddYh]hY'hc`]bgifY'h\YZi```fYjYbiY` WebgYeiYbWfg`cZUXY`UnžUbXXYjY`cdYfg`g\ci`XWebg]XYf` h\]g`dchYbh]U``]b'h\Y]f`dfc^YWfibUbVJU``a cXY`"

Third party and environmental liability

5WW/YbhgʻU YWhjb['@]!jcb'VUhYfmZJWhcf]YgʻWb'Uʻgc`\Uj YʻU a Uʻcf`]a dUWhicb'h YʻdfcdYfh]Ygʻcf`\YUʻh\ cZh\]fX'dUfh]Yg"Bch cb`mWb'h\Y'X]fYWhifYgi 'hgʻcZ' fY'Wi gY'Uʻg][b] Wbh\UhUfXž but the common requirement for massive amounts of cooling water can have further consequences. Fire tests carried out Vmh\Y'BUh]cbU':]fY'DfchYWhjcb'5ggcVJUh]cb'fB: D5Ecb'@]!]cb VUHYf]Ygž\Uj Yʻg\ck b'h\Uhg][b] Wbh'Ua ci bhgʻcZ\mXfc[Yb'

i cf]XY`Wb`VY`fY`YUgYX''K \Yb`]b`WcbhUWfik]h\ k UhYfz'h\]g VYWca Yg`\nXfc i cf]WUWJX``cbY`cZh\Y`a cghWcffcg]j Y` hmdYg`cZUVJXžk \]W`Wb`U YVVffYgd]fUhcfmgnghYa g`UbX`Yj Yb` X]ggc`j Y`[`Ugg''=bgi fYfg`bYYX`hc`Z ``mi bXYfghUbX`Ya Yf[YbVvh dfcWYXi fYg`hc`UgWfhU]b`\ck`ZUf`h\Y`Y YVvficb`h\Y`gi ffci bX]b[` environment will be contained and controlled.

The impact of lenders, and operational insurance considerations

K \]'Y YgHUV`]g\YX`[`cVU`VUHYfma Ubi ZUVfi f]b[`Vta dUb]Yg` Xc`bchVta a cb`mgYY_'rc`fU]gY`XYVh'U[U]bgh'\Y]f`dfc`YVfigž \YfY`UfY`a UbmVta dUb]Yg'\\UhXc`i hj`]gY`dfc`YVfi bUbW`UbX` Ug`gi W`bYYX`rc`Vta d`mik]h\'h\Y`fYei]fYa Ybhg` bU`mU[fYYX` k]h\``YbXYfg''5g]XY`Zfca 'h\Y`i gi U``YbXYffYei]fYa Ybhgžh\Y` borrower needs to be conscious of the required commitment cZcdYfUh]cbU`]bgi fUbWgžk \]M\'a i ghVY`a U]bHJ]bYX` h\fci [\ci h'h\Y'dYf]cX`cZh\Y]f``cUb`U[fYYa Ybh''

Given that these commitments will commonly involve the dfcW fYa YbhcZdfcXi VhfYW``UbX``]UV]`]mn]bgi fUbW``U' \]ghcf]W``mX] W`ha Uf_YhZcf`@!]cb`dfcXi Wfg` 'h\Y` borrower and their broker should carefully consider what they commit to lenders. They will also need to be cognisant cZh\Y``YbXYfg`fYgi `HJbhdYfW'dh]cb`cZh\Y`cdYfUh]cbU`` a Ubi ZJVMi f]b[`ZJVMj]mnf]g_`dfc `Y''

Joao Buzio @5H5A 'FY[]cbU''7cbghfi VMjcb Head, Construction, =bZfUghfi VM fY'/'Gi fYmžil ?ž A Ufg\'GdYVJU'm +44 (0)20 7357 3971

About Marsh

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