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types: sensible heat,  
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term reliability.  
However, this  
technology is still  
under development  
and currently facing  
several challenges:  
limited operation  
temperature range for  
molten-salt thermal  
energy storage and  
poor thermal  
performance for the  
thermal storage with  
phase-change or solid  
materials. To this end,  
addressing these  
performance

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challenges and  
developing effective  
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geological conditions,  
borehole thermal  
energy storage is  
advantageous for long-  
term storage from a  
technical and economic  
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environmental aspects  
have to be considered  
to avoid any impact on  
groundwater or  
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Another advanced  
energy storage solution  
is redox flow batteries  
(fuel cell), which  
replace solid  
electrodes with energy-



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dense electrolytic compounds (hydrogen-lithium bromate, bromine-hydrogen, organic, etc.) separated by a membrane that charge and discharge as the liquids circulate in their own respective space.

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## Storage Systems

Technologies store thermal energy (both heat and cold) for later use as required, rather than at the time of production. They are therefore important counterparts to various intermittent renewable energy generation methods and also provide a way of valorising waste process heat and reducing the energy

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demand of buildings.

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While the physics of mechanical systems are often quite simple (e.g. spin a flywheel or lift weights up a hill), the technologies that enable the efficient

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