Swedish thermal power storage 2021

What is power generation using thermal energy storage?

Power generation using thermal energy storage is also a power storage technology. Its basic concept is that electricity is converted into heat when there is a power surplus caused by renewables,temporarily stored as heat,and converted back into electricity to supply power when needed during an increase in power demand (Figure 2).

How much energy savings will Sweden achieve in 2021?

The table shows that the total amount of cumulative energy savings from Swedish instruments over the whole period 2030-2021 is estimated at around 167 TWh. This results in a gap of around 70 TWh against the savings requirement (237 TWh) to be achieved in Sweden for the same period.

Will Sweden be more energy efficient in 2022?

However, the breakdown according to statistics for 2022 and in the long-term scenarios for 2030 can serve as an approximation. Sweden has a national target of 50 % more efficient energy use by 2030 compared to 2005. The target is expressed as a cross-sectoral reduction target, i.e. the ratio between input (primary) energy and real GDP.

What is Sweden's energy savings requirement for the period 2030-2021?

Table 8 Calculation of the cumulative savings requirement for the period 2030-2021 based on average final energy consumption for Sweden for the years 2018-2016 (373 TWh),in TWh. As shown in the table,this means that Sweden's total cumulative energy savings requirement for the period 2030-2021 amounts to 237 TWh.

Will Sweden increase the share of renewable heating & cooling?

On the other hand,Sweden has an indicative target of increasing the share of renewable heating and cooling of 0,7 percentage points annuallybetween 2021 and 2030,as set out in Annex Ia of the Directive.

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