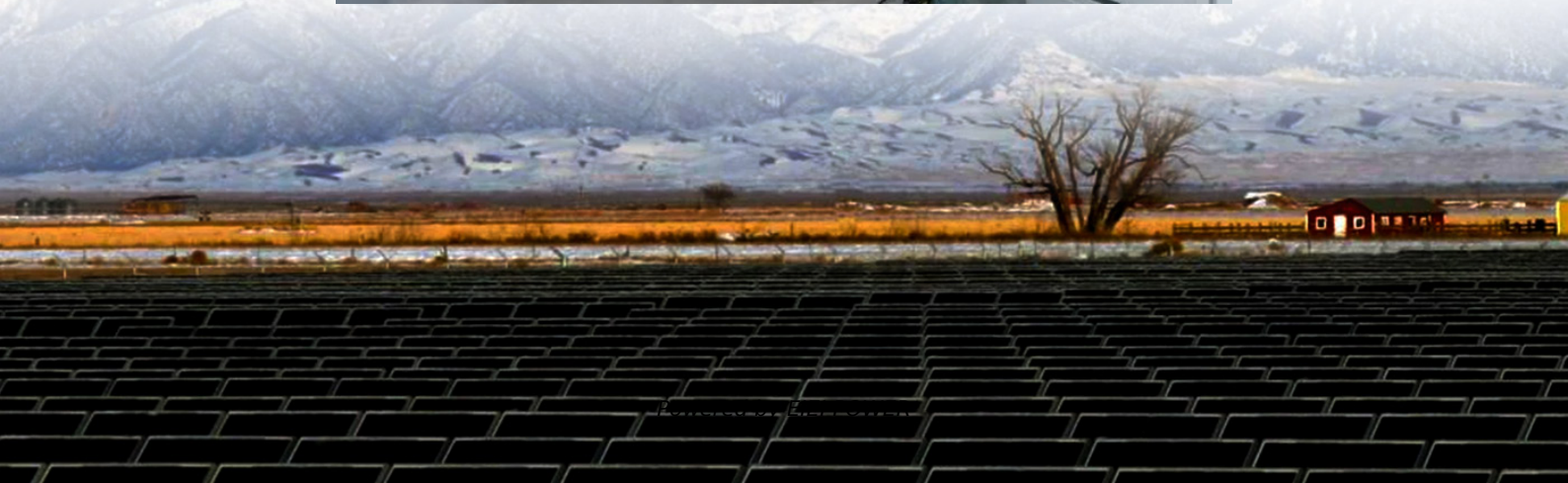


# **Transaction conditions for bidirectional charging of folding containers used in fire stations**





## Overview

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What is bidirectional charging?

Bidirectional charging is the ability of an electric vehicle to feed energy back with a time delay, in addition to the already established function of absorbing energy. As a result, the electric vehicle does not only act as a consumer but is also able to make temporarily stored energy available for different applications as required.

How does bidirectional charging affect the energy system?

The effects of bidirectional charging on the energy system are therefore multifaceted and will particularly depend on the acceptance and consequently the dissemination of the use cases presented in Chapter 3.2. When examining these impacts, it is important to differentiate between the effects on customers, the grid and the energy market.

Which type of charging serves the bidirectional use cases better?

In the discussion about bidirectional charging and the usage of the EV battery for local energy consumption optimization or grid stabilization the basic charging requirement is in focus for several reasons. The basic question: which kind of charging serves the bidirectional use cases better?

AC based charging or DC based charging.

What is smart and bidirectional charging?

Smart and bidirectional charging makes the mobility transition more accessible to consumers, enhances the flexibility of the electricity system, and contributes to a stable, efficient, and sustainable energy system.



## Transaction conditions for bidirectional charging of folding container

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