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Electrical distribution concept and layout

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Starting from the baseline presented during the FCC week of 2022 and from the studies for the grid connection, the study of the electrical distribution network has been updated and developed.

The load forecast is being detailed per zone for the most relevant consumers, this allows now to have a better load mapping to assess the electrical needs and the required infrastructure per point and per facility.

The voltage levels for internal distribution are under analysis and are being assessed based on CAPEX criteria and on voltage requirements of the most relevant equipment such as the RF converters.

The concept of underground transmission substation has also been studied, to allow an optimization of the surface footprint of each point and to bring the power at high voltage the closest to the highest loads.

The aim of this presentation is to show the progress of the studies on FCC electrical network since 2022, and to provide an overview on the general concepts and schemes of the electrical distribution.

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