1. There are some transmission lines which consist of expansion (new route) and renovation (on existing line). The length is (somehow) available for both, but the connection between renovation and refining is a punk (mostly). How to combine them or else?
   1. 50HzT-007,
2. There are TL which constructed inside of a substation, using same name for start and end as well as the short length of line.
   1. 50HzT-003, 50HzT- P413, AMP-P154,
3. What about the transmission lines which has small length such as
   1. 50HzT-035 (Netzanschluss PSW (Pumpspeicherwerk) Leutenberg)

24 July 2023 updates

**Just for information**

The remaining row has been checked and modified.

The required columns from PgAdmin4 were added to the working table, and some available data has been updated in.

It has been found that there are some transmission lines which the name in PDF text is different than what has been wrote in the map, considering that the map shows the name of substation, for these rows the name of substation is taken from pdf map.

A total review has been done, and below rows rechecked and modified.

57 the location name modified, still some issue existing with row number 58 and 59.

129 and 130, the location name modified according to the map.

134 the location name modified.

141-143 the location name modified, and unnecessary rows deleted.

P119 modified according to the pdf map.

P170 modified according to the pdf map.

**Below points need clarification and maybe discussion:**

The below row needs to be rechecked 153 and 154, the end and start of TL are not shown in the map in pdf and are different in the text?

Project P450 has a point connection in map which didn’t mention in pdf text, this could increase the line, and due to existing of this point the connection between two point is not straight.

The P161 needs to be checked, there is point connection between start and end in the map

About the green highlighted rows number 79&80, which located between P33 and P46, I can’t find such line between these two code in pdf?

The green highlighted row, 129-139, is there any relation between them to combine?

Clarification about row 109 which highlighted orange?