

# Research on Intelligent Formation Method of Load Recovery Strategy for The Power Failure of 110kV and 35 kV Substation Based on Real-time Operation Data

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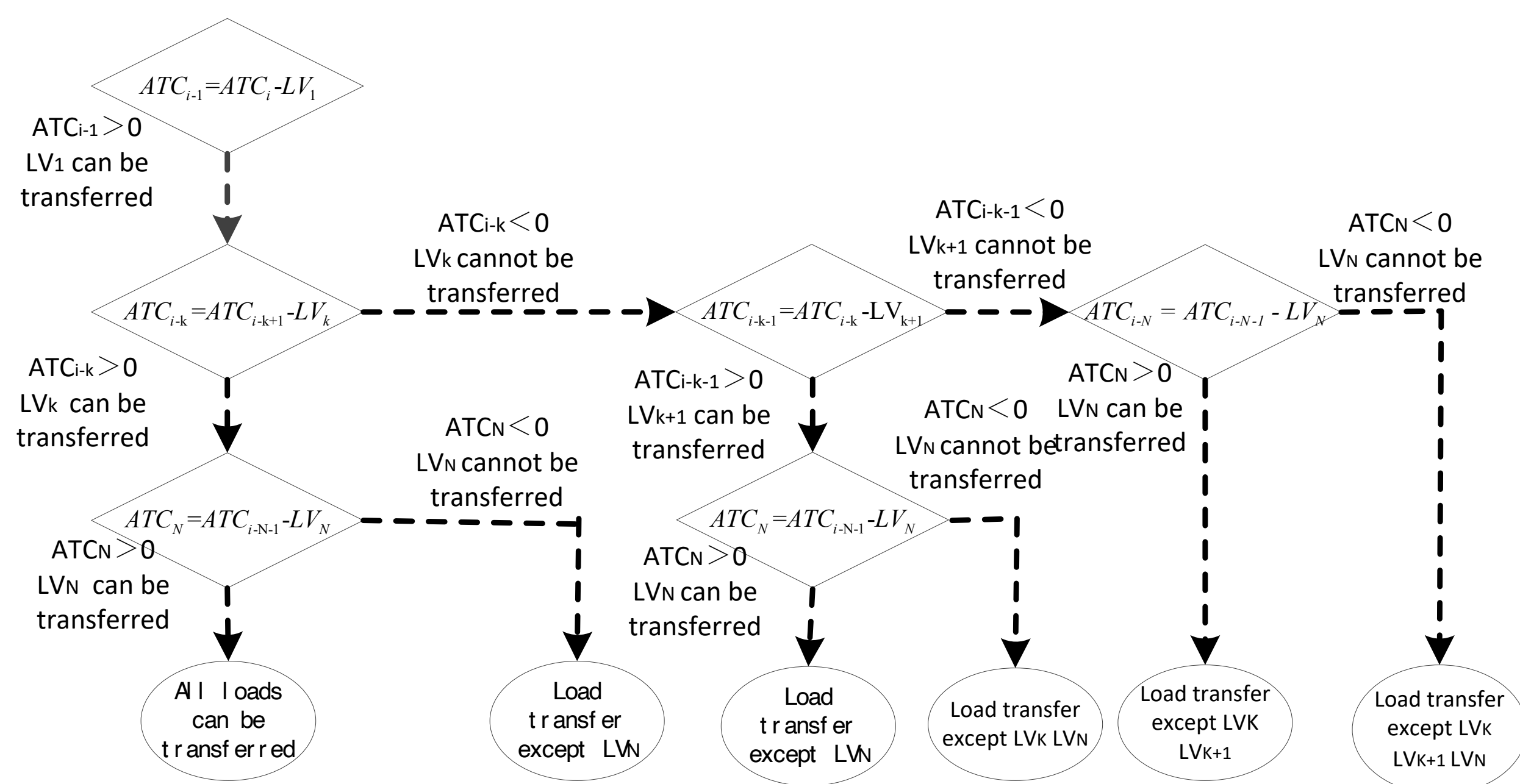
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## Introduction of your work

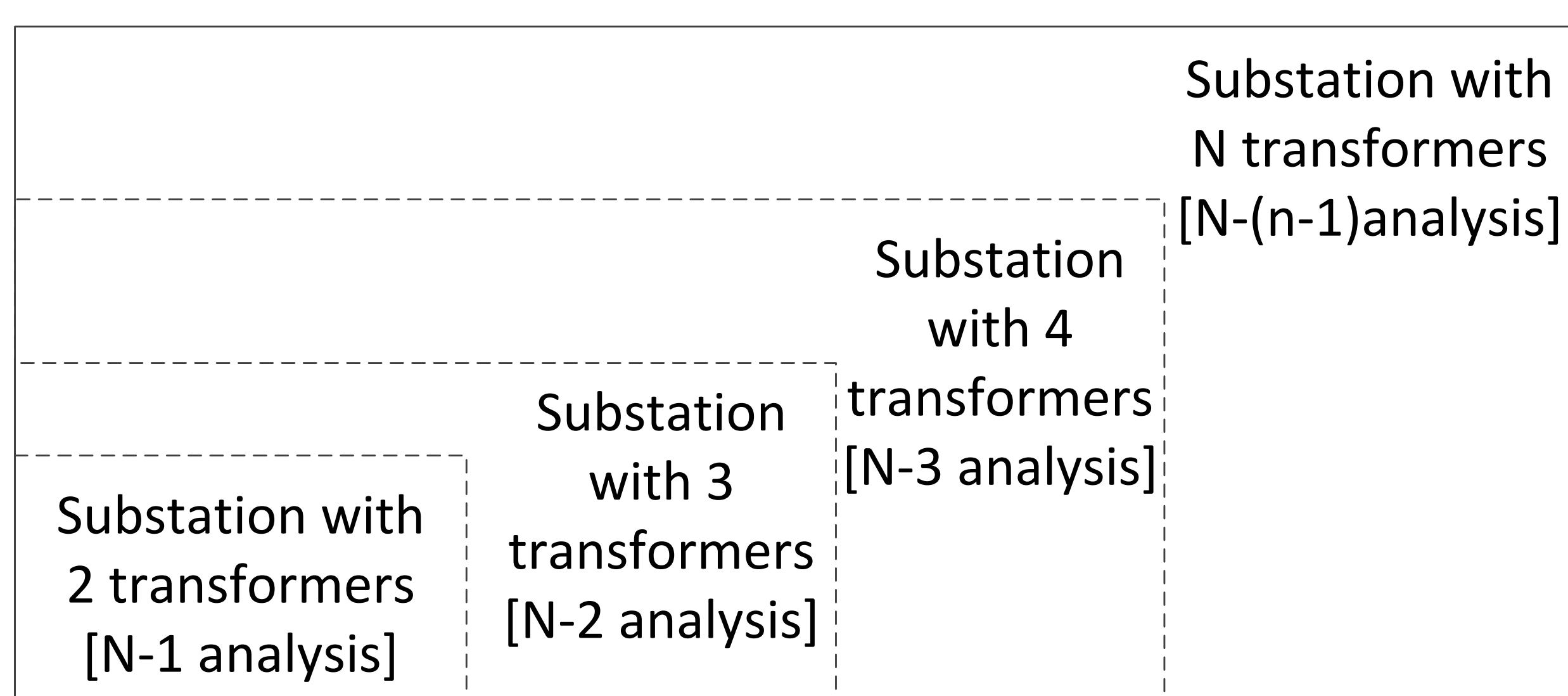
The power failure of 110 / 35 kV power station will cause large-scale power loss of users. Based on grid digitalization platform, this study carried out a real-time fast recovery strategy research. According to the data of load section and load characteristics, thematic map of fast recovery strategy can be drawn intelligently, real-time fast recovery strategy can be compiled intelligently, and load recovery data analysis can be carried out.

## Methods of your work

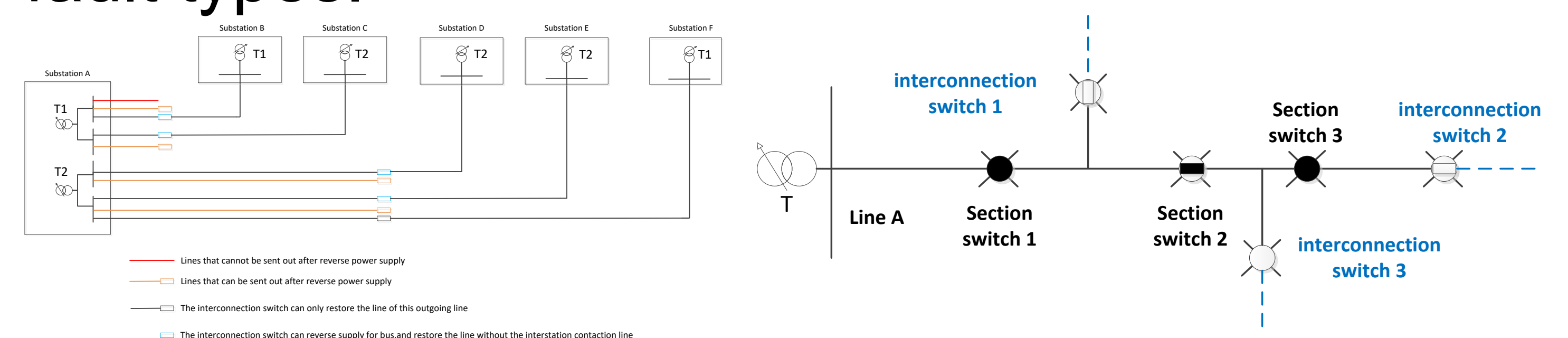
Building load recovery model according to three different load characteristics



Load recovery strategy can be generated automatically according to different fault types.

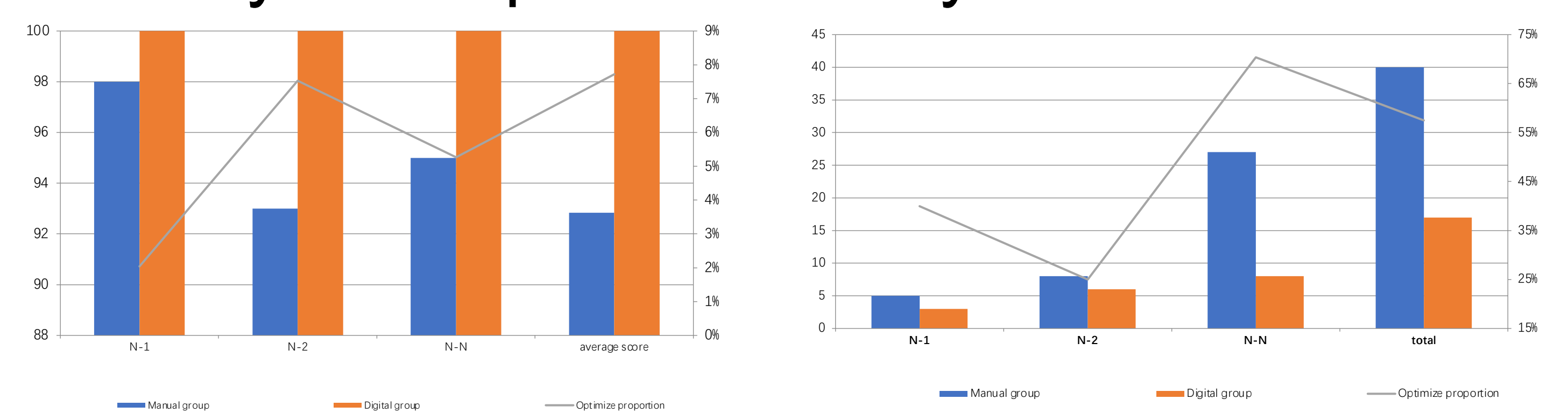


Thematic map of rapid recovery strategy can be drawn automatically according to different fault types.



## Results of your work

Two groups are divided to analyze the load recovery strategy, the first group is the manual sorting group, and the second group is intelligent analysis of digital platform. Through the comparison of the two groups, it is found that using intelligent analysis can optimize the formulation time, report accuracy and report readability.



## Conclusions of your work

- 1) This study realizes the flexible formulation of power supply restoration policies to achieve accurate restoration of key loads according to the load characteristics of each line.
- 2) This study realizes the intelligent drawing of accident recovery thematic map to solve the problem that the recovery strategy is not intuitive, and has good practicability.
- 3) This study realizes intelligent real-time preparation of load recovery strategy to solve the problem of disconnection between the actual operation mode and the operation mode of the existing accident plan, and can speed up the progress of accident handling.