

MITIGATE FUTURE UNCERTAINTY

Today's grid has become extremely challenging to manage due to a rapidly changing generation mix, evolving power consumption patterns and resistance to new construction projects. The traditional planning process of forecasting network needs five to ten years into the future and building extensive new infrastructure to solve these problems, is no longer feasible for many utilities.

Smart Wires' modular power flow control solutions are quick to deploy, easy to relocate or scale, and provide the adaptability utilities need given the challenges they face today.

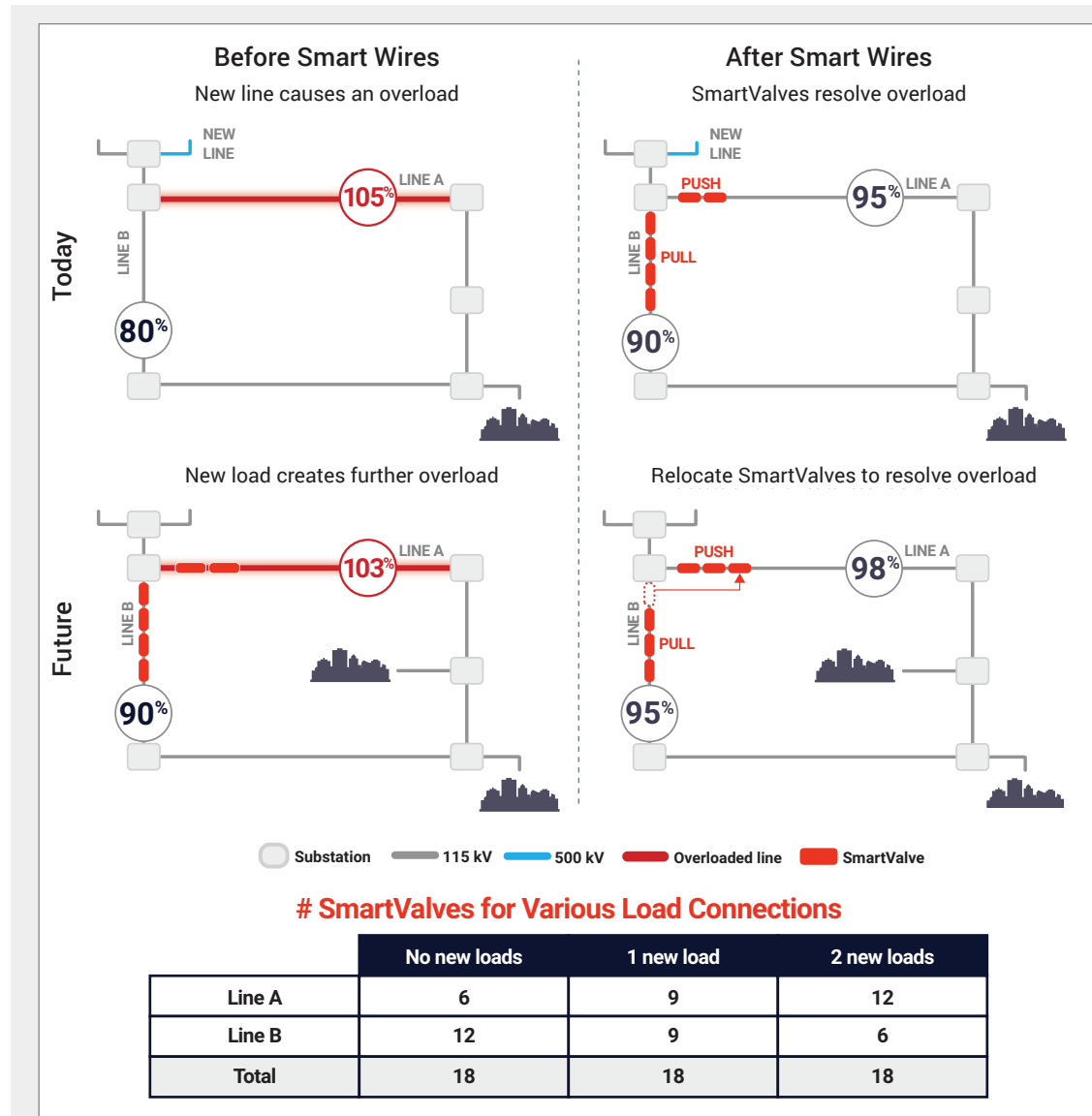


CHALLENGE

- When a new 500 kV transmission line is energized, overloads will result on Lines A and B.
- Two large customers will potentially come online in the next five years, impacting the power flows.
- Different scenarios of customer connections produce a range of loadings on Lines A and B.
- The utility seeks one cost-effective solution to meet the range of future needs.

SOLUTION

- The utility deploys SmartValves on Lines A and B to solve the problem.
- SmartValves are voltage-agnostic and can be easily relocated from one line to the other, based on which scenario plays out.
- If additional load connects in this region, the modular nature of SmartValve means the utility can easily scale the existing installations to alleviate any additional overloads.



IMPACT

- The adaptability of SmartValve helps the utility address a range of future needs.
- The solution is a cost-effective, robust, 'no regrets' investment that is easy to scale or relocate.