

# Power Distribution

**SMM**

# Power Distribution Line

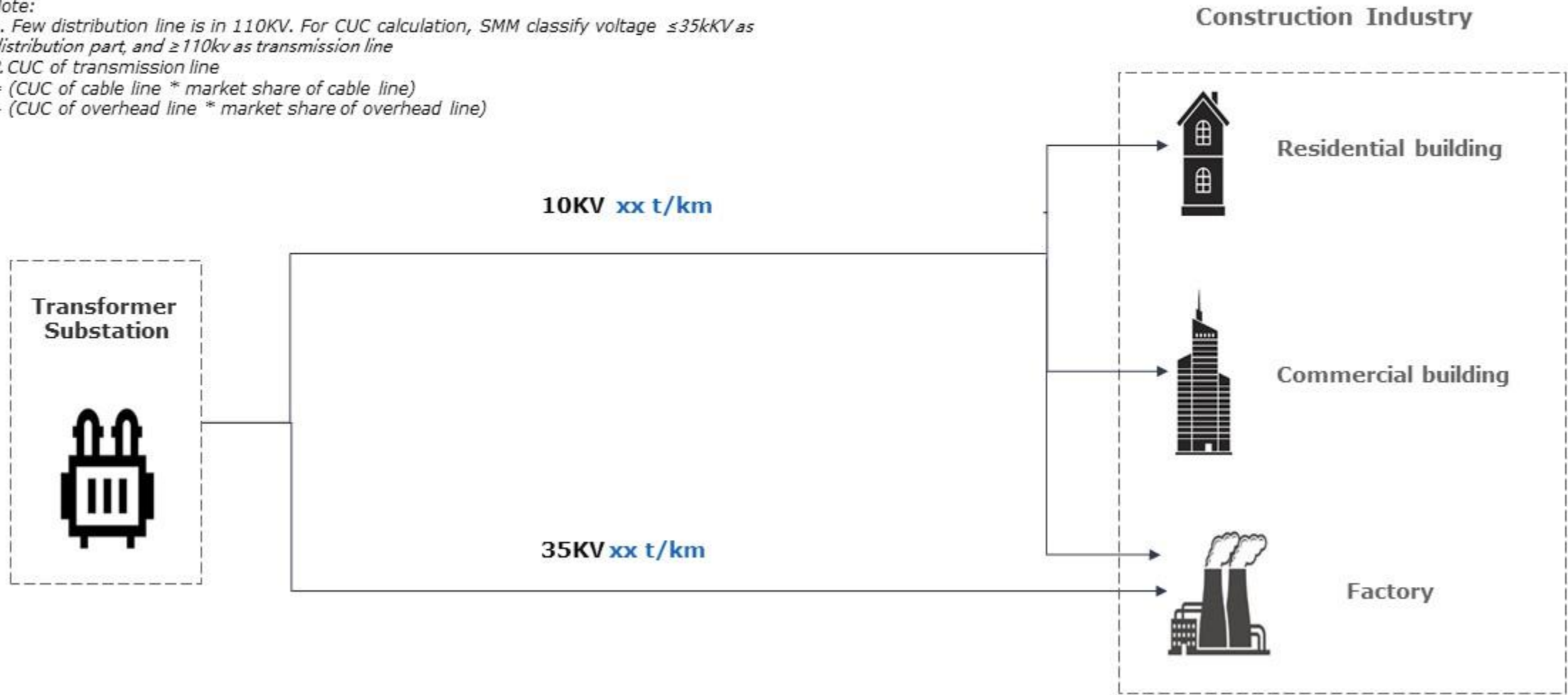
Note:

1. Few distribution line is in 110KV. For CUC calculation, SMM classify voltage  $\leq 35kV$  as distribution part, and  $\geq 110kV$  as transmission line

2. CUC of transmission line

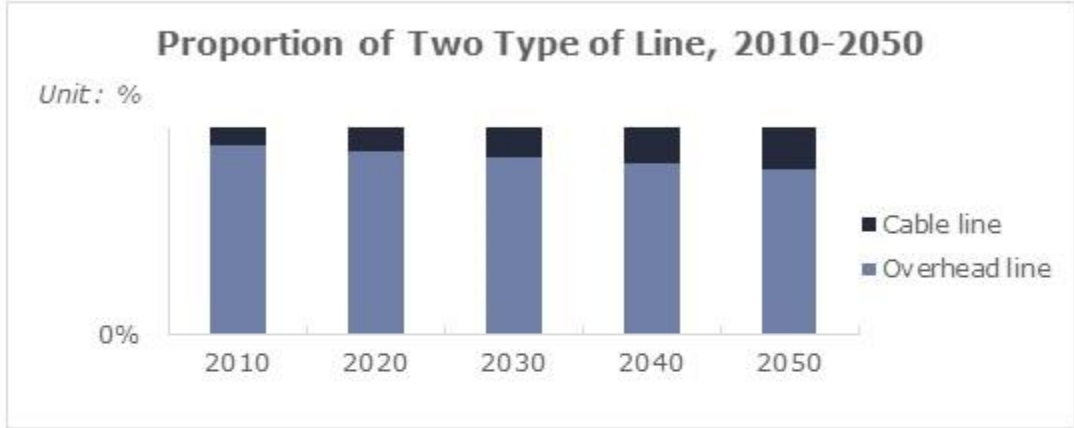
= (CUC of cable line \* market share of cable line)

+ (CUC of overhead line \* market share of overhead line)

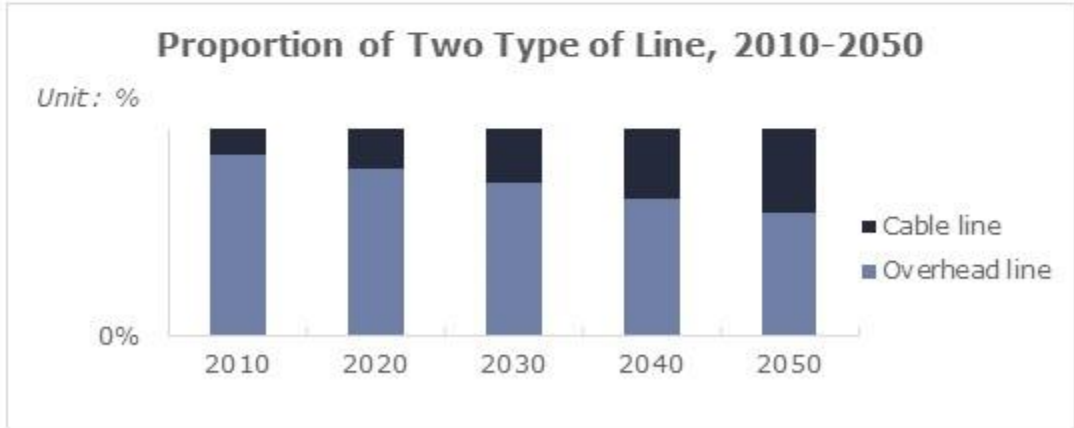


# Substitution Gain

35kv



10kv



## Substitution Gain of Distribution Line, 2010-2050

35KV ▲ xx t/km

10KV ▲ xx t/km

- With the development of urbanization, the proportion of distribution line length in densely populated areas will increase, thus driving the laying of cable lines
- The CUC of the overhead line is xx, and most of the cable line is xx cable. Thus, an increase of cable line is substitution gain for distribution lines
- Compared with 2010, the increase of cable line proportion will bring xx t/km CUC increment for 35kv line and xxt/km CUC increment for 10KV line

Source: SMM