

# Switched Source

Medium Voltage Power Flow Control



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Students, Professors,  
and Entrepreneurs

Angels, Investors

Utility Customers

OEMS and Strategic  
Partners



, CEO

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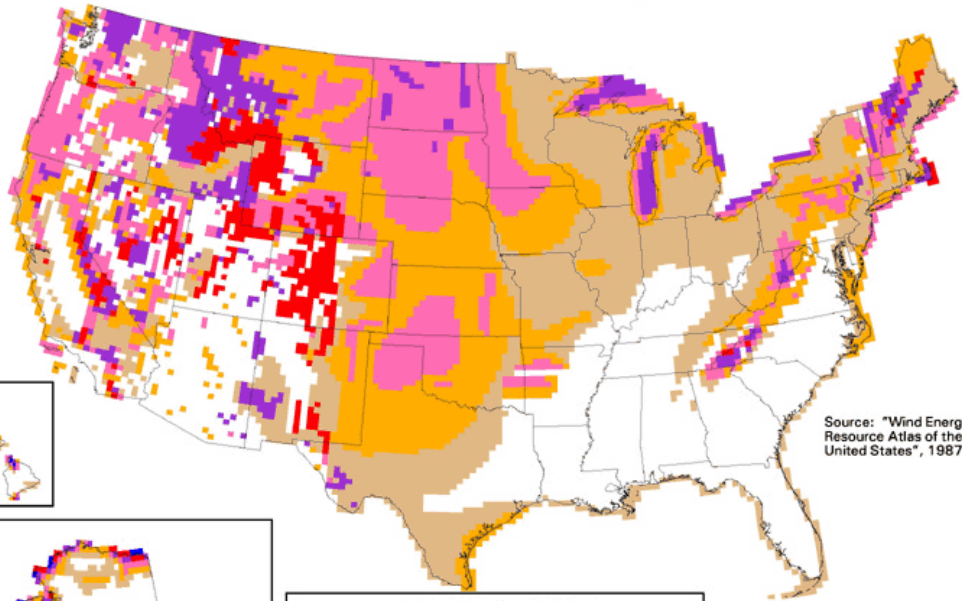
A long time ago in ~~a galaxy far,~~

~~far away....~~ East Lansing, Michigan



CHANGING WHAT'S POSSIBLE

United States - Wind Resource Map



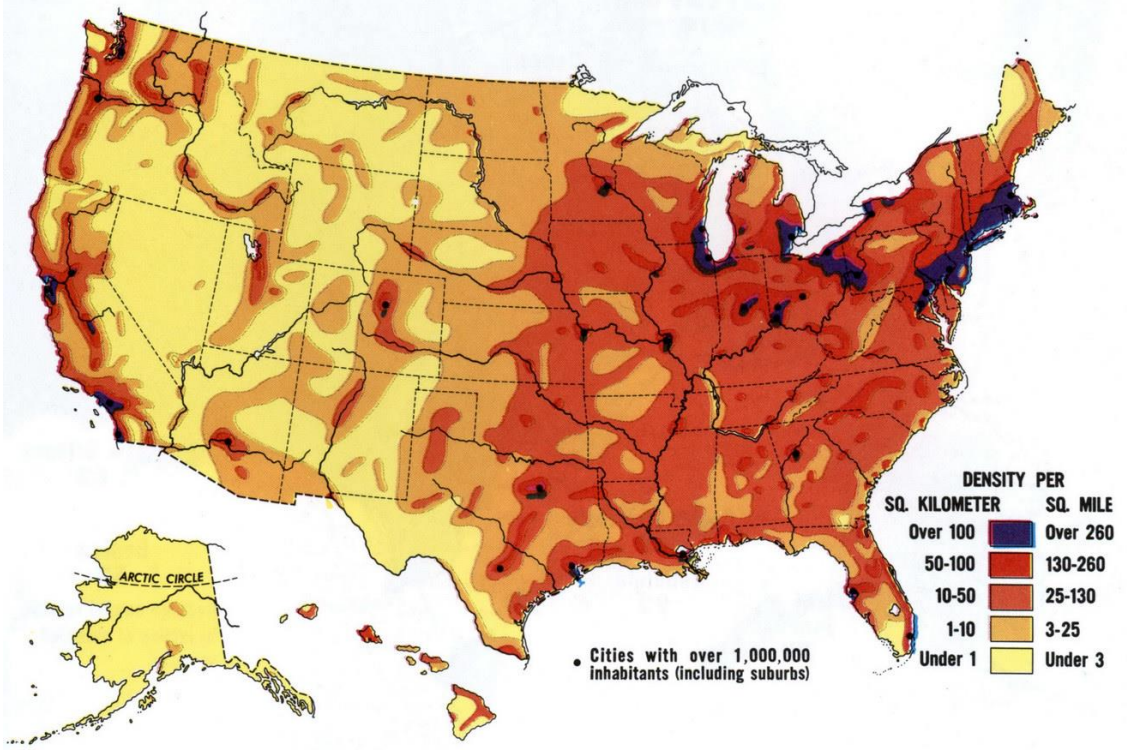
Source: "Wind Energy Resource Atlas of the United States", 1987

Wind Power Class	Resource Potential	Wind Power Density at 50 m W/m <sup>2</sup>	Wind Speed <sup>a</sup> at 50 m m/s	Wind Speed <sup>a</sup> at 50 m mph
2	Marginal	200 - 300	5.6 - 6.4	12.5 - 14.3
3	Fair	300 - 400	6.4 - 7.0	14.3 - 15.7
4	Good	400 - 500	7.0 - 7.5	15.7 - 16.8
5	Excellent	500 - 800	7.5 - 8.0	16.8 - 17.9
6	Outstanding	600 - 800	8.0 - 8.8	17.9 - 19.7
7	Superb	800 - 1600	8.8 - 11.1	19.7 - 24.8

<sup>a</sup> Wind speeds are based on a Weibull k value of 2.0

U.S. Department of Energy  
National Renewable Energy Laboratory  
 20-MAR-2000 1.1.5

Population Distribution



DENSITY PER	
SQ. KILOMETER	SQ. MILE
Over 100	Over 260
50-100	130-260
10-50	25-130
1-10	3-25
Under 1	Under 3

• Cities with over 1,000,000 inhabitants (including suburbs)

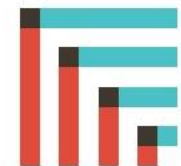
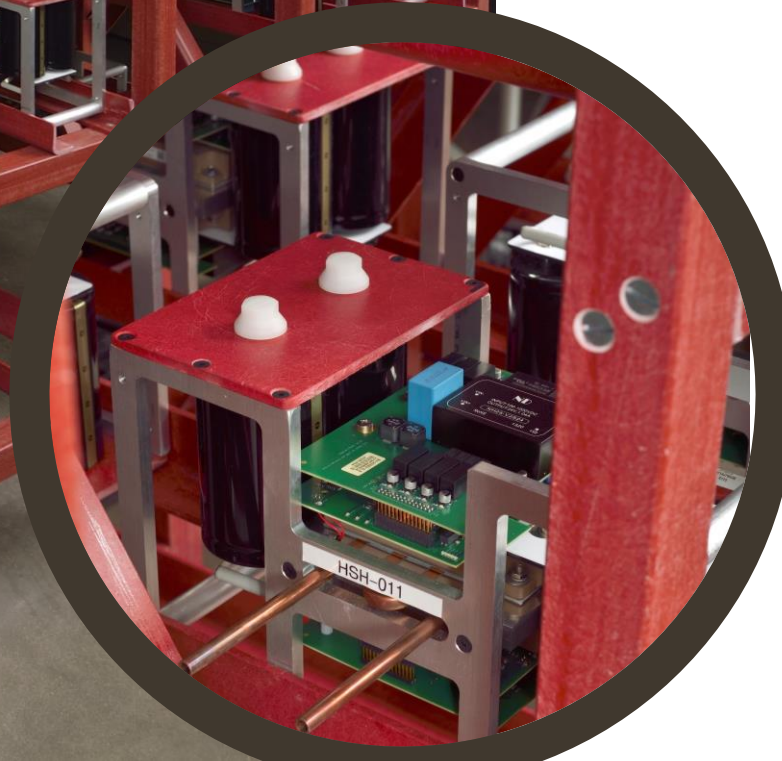




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CHANGING WHAT'S POSSIBLE

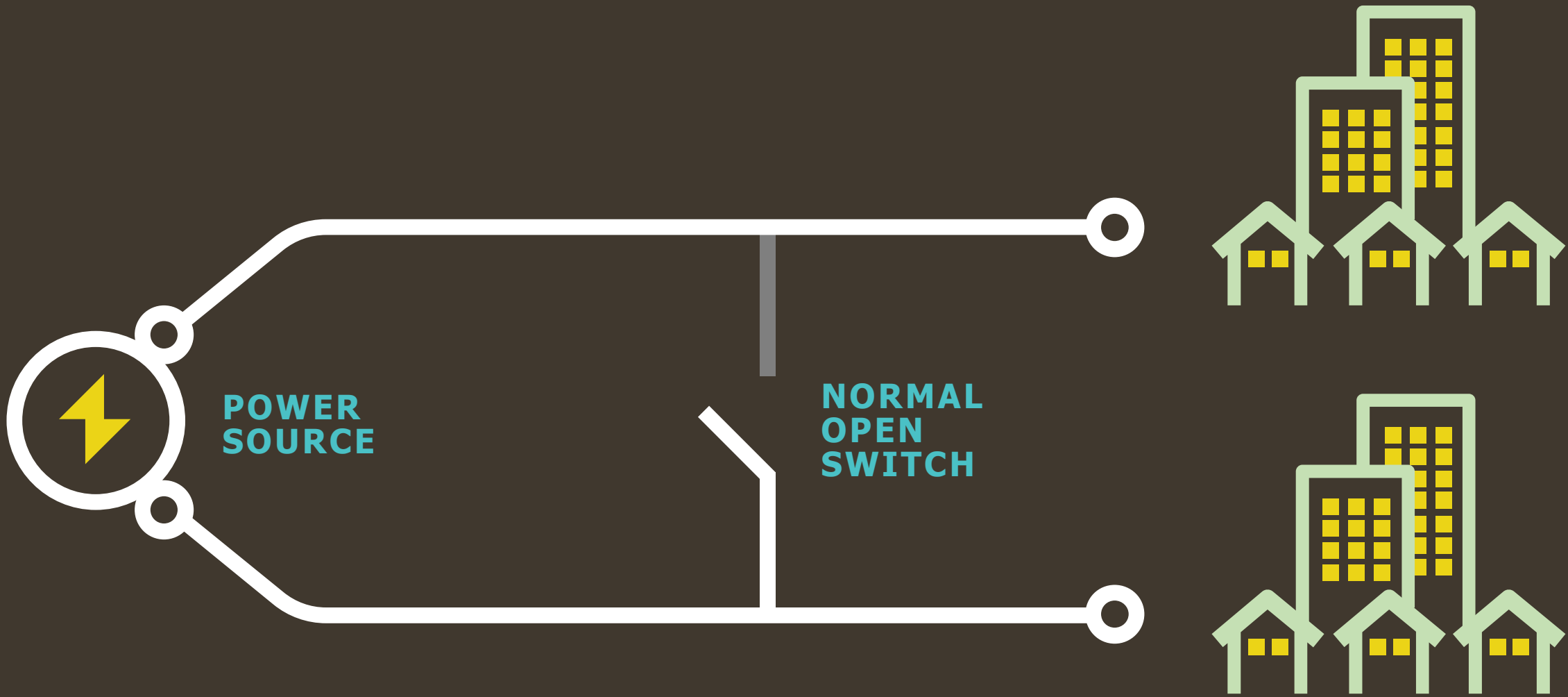
**13.8 KV / 2 MVA**



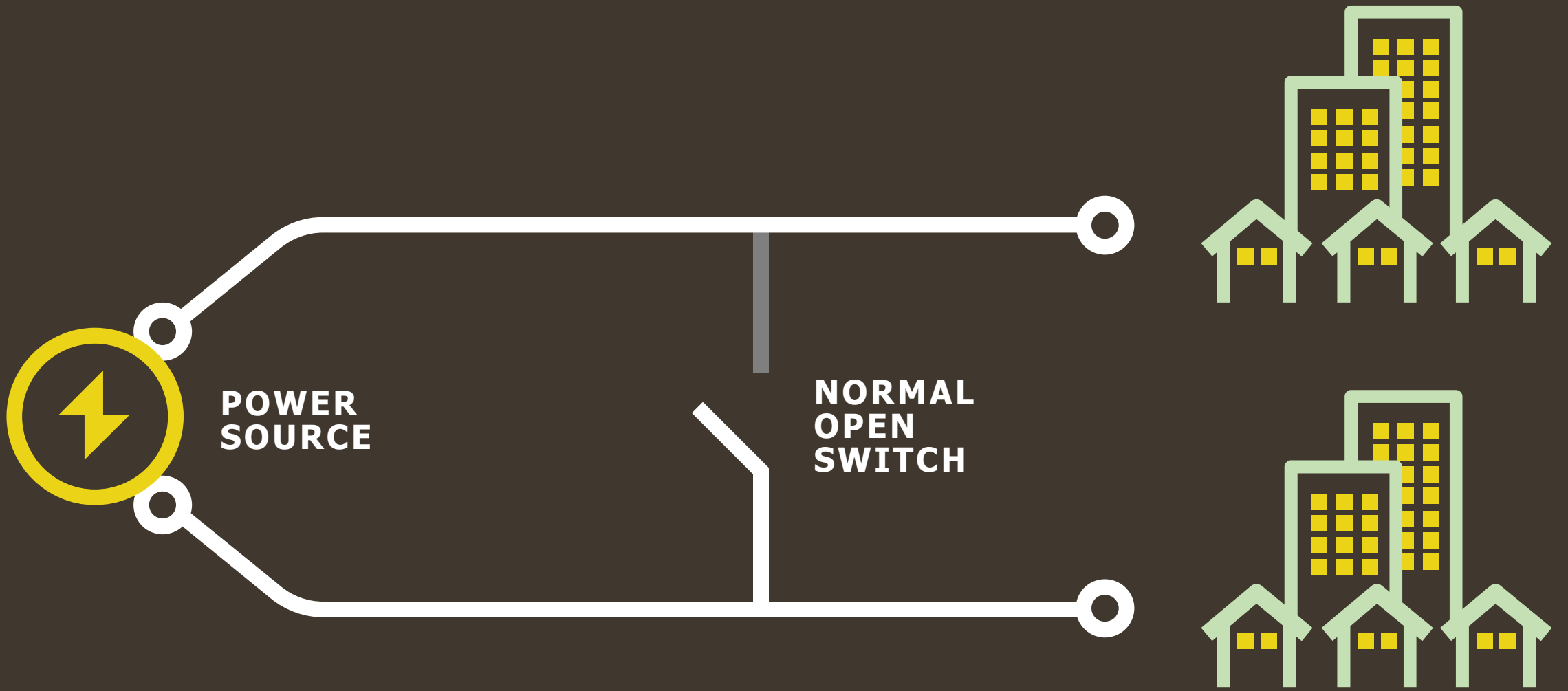
SWITCHED  
SOURCE

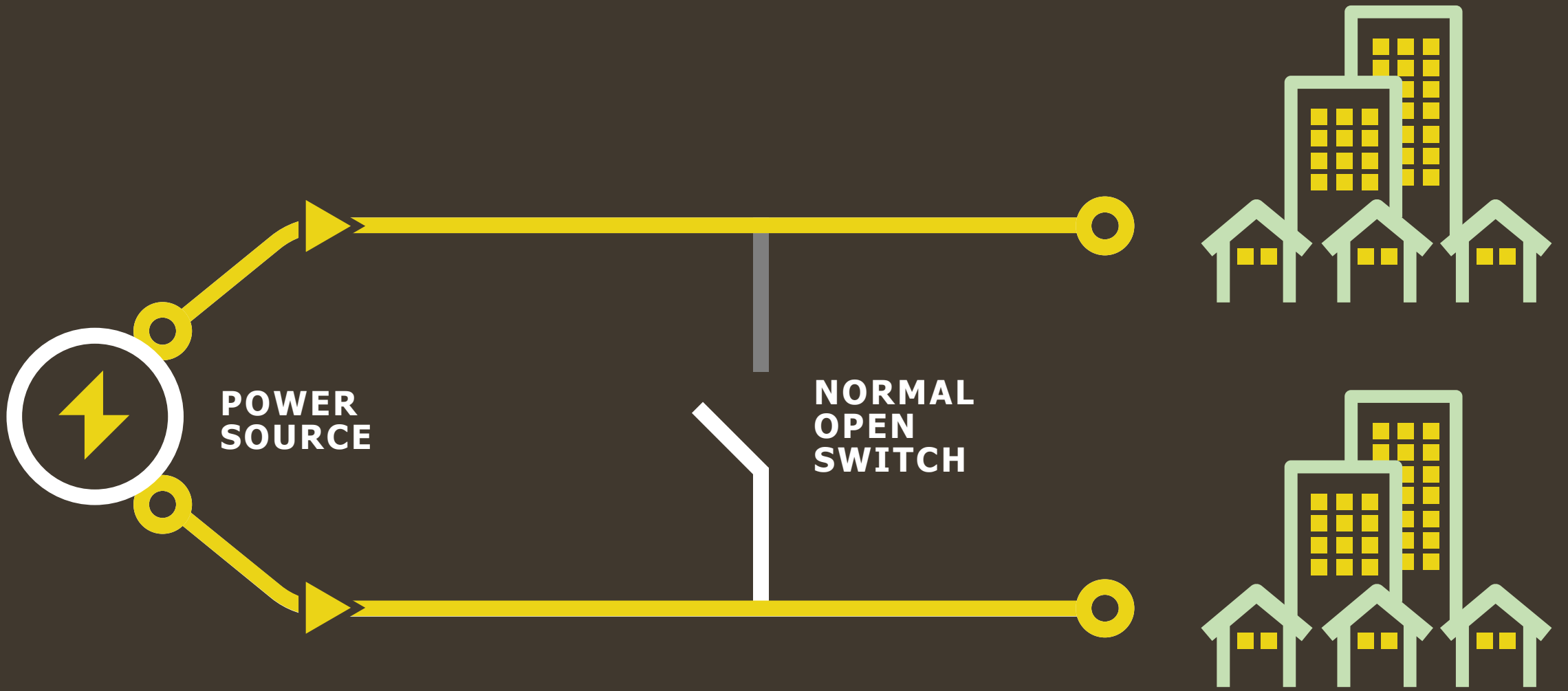


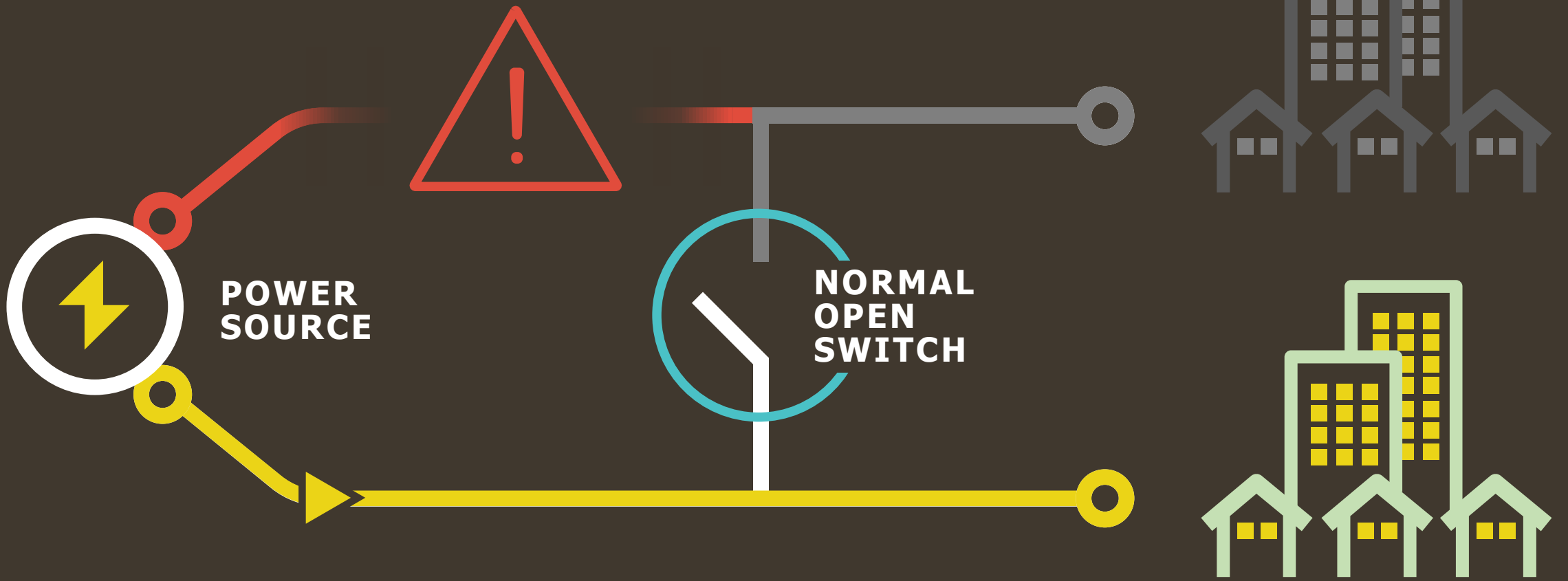
# Pivoting to Distribution

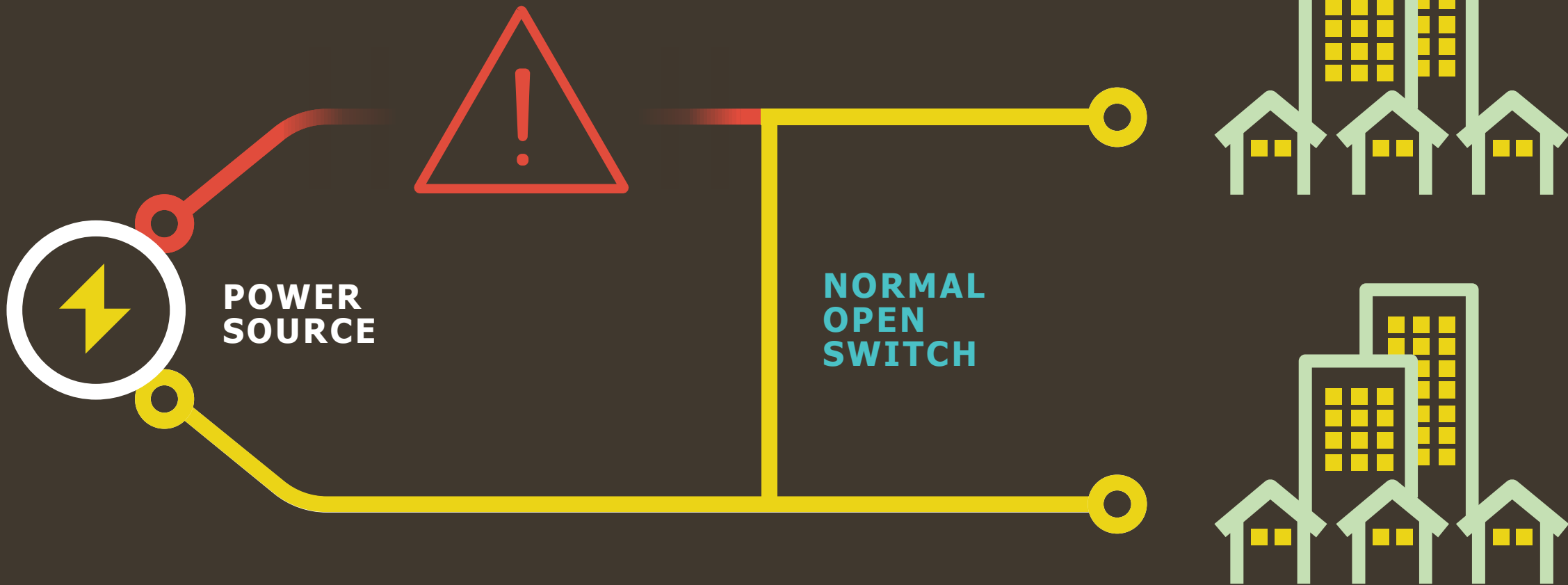




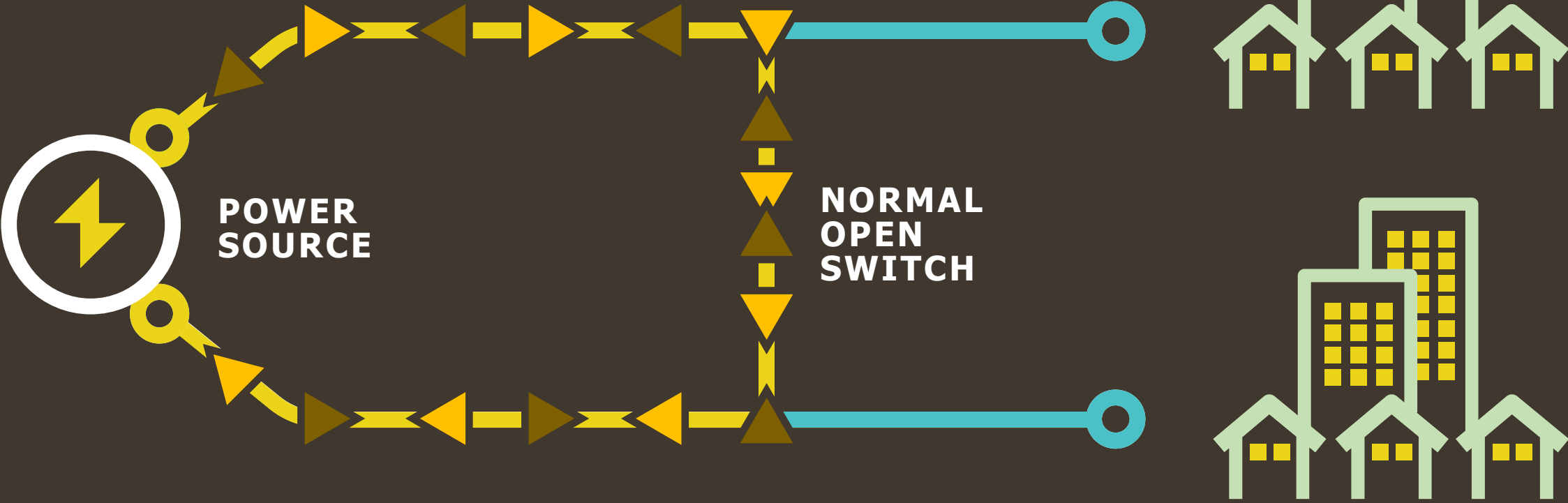




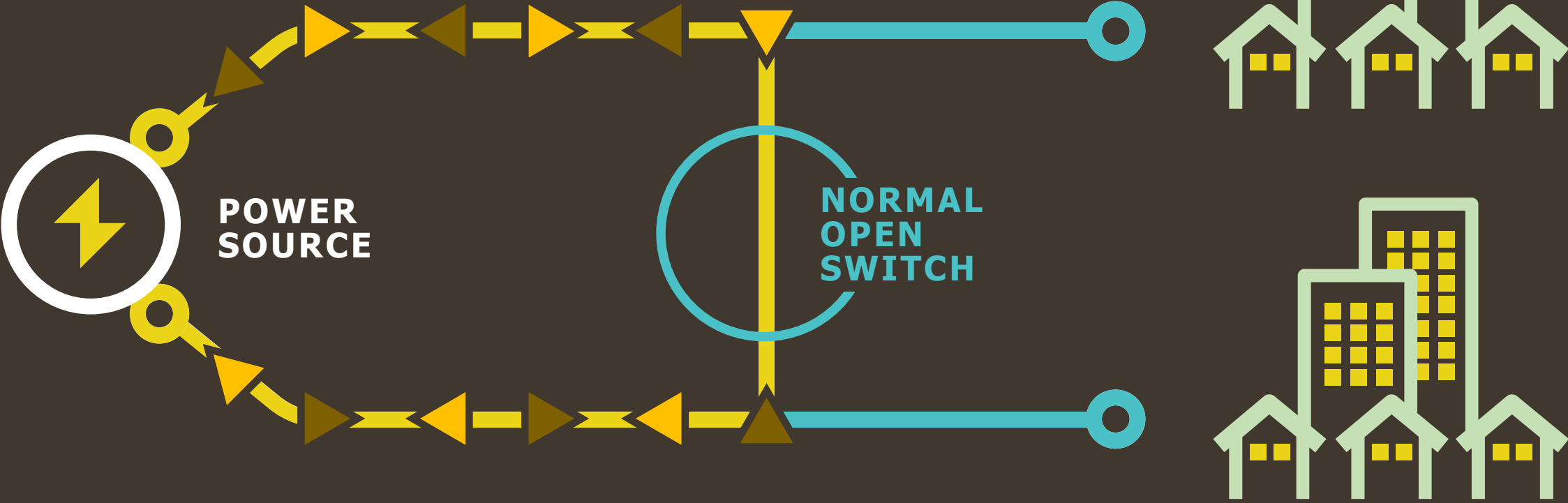




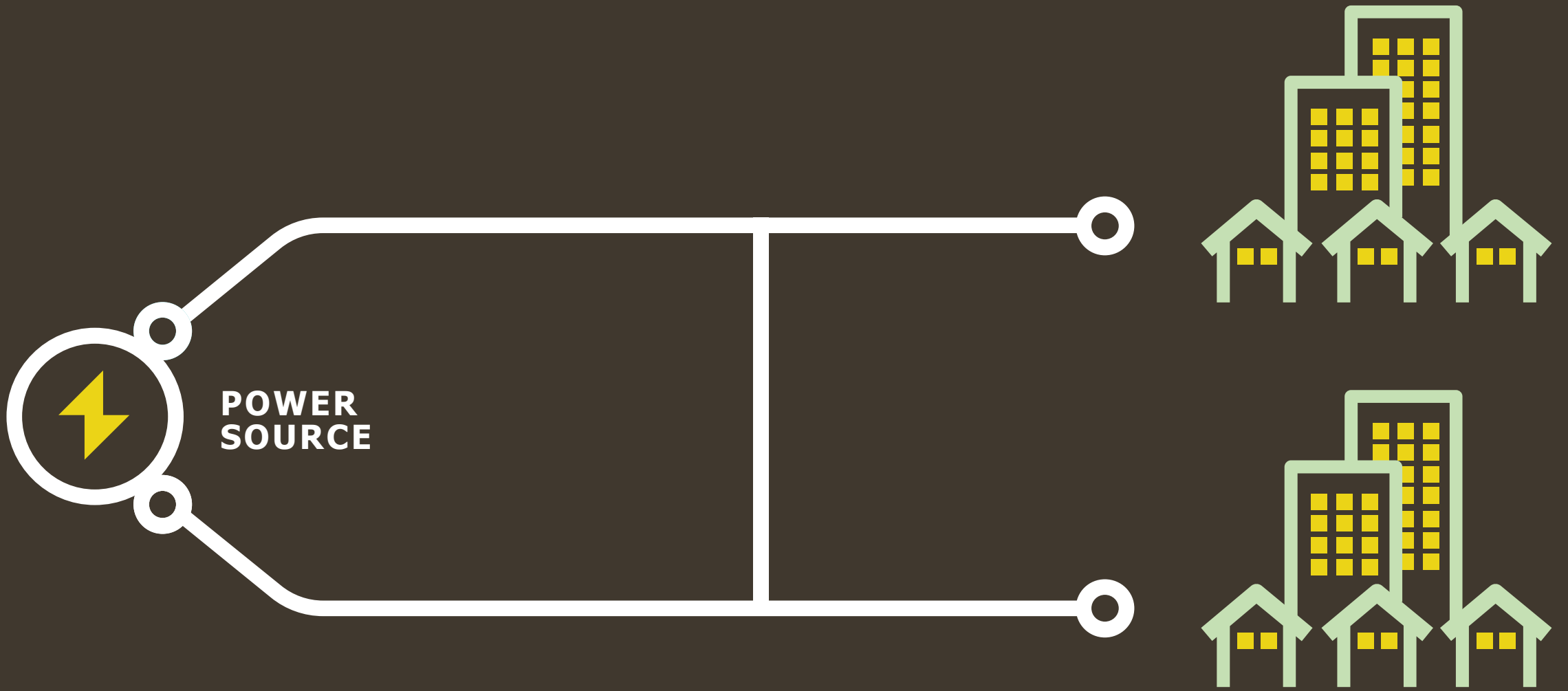
# LOOP FLOW



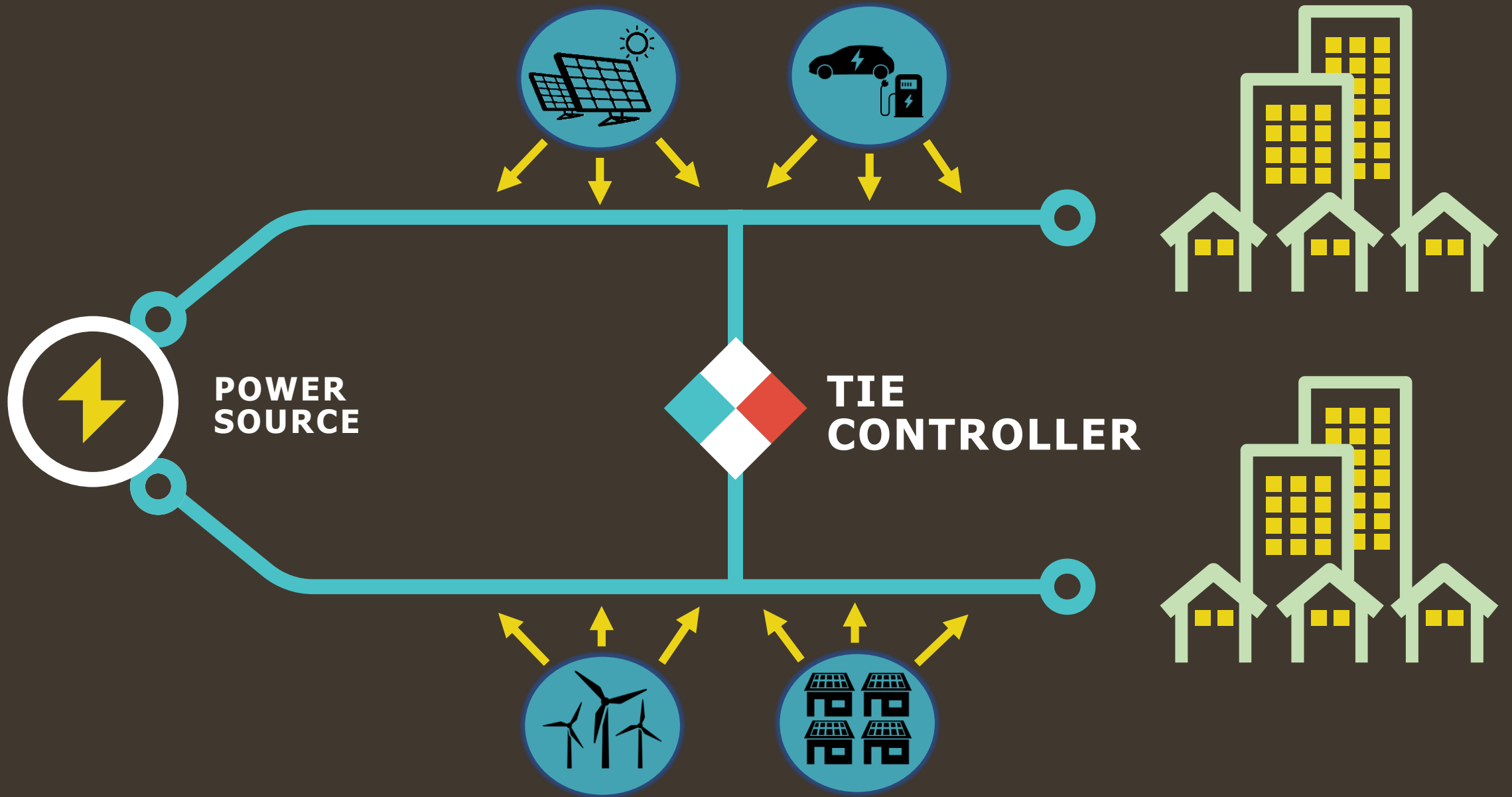
# LOOP FLOW



**OUR TECHNOLOGY  
UNLOCKS SUPERIOR RELIABILITY**







# Thank you

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