

energize**EASTSIDE**

Eastside need

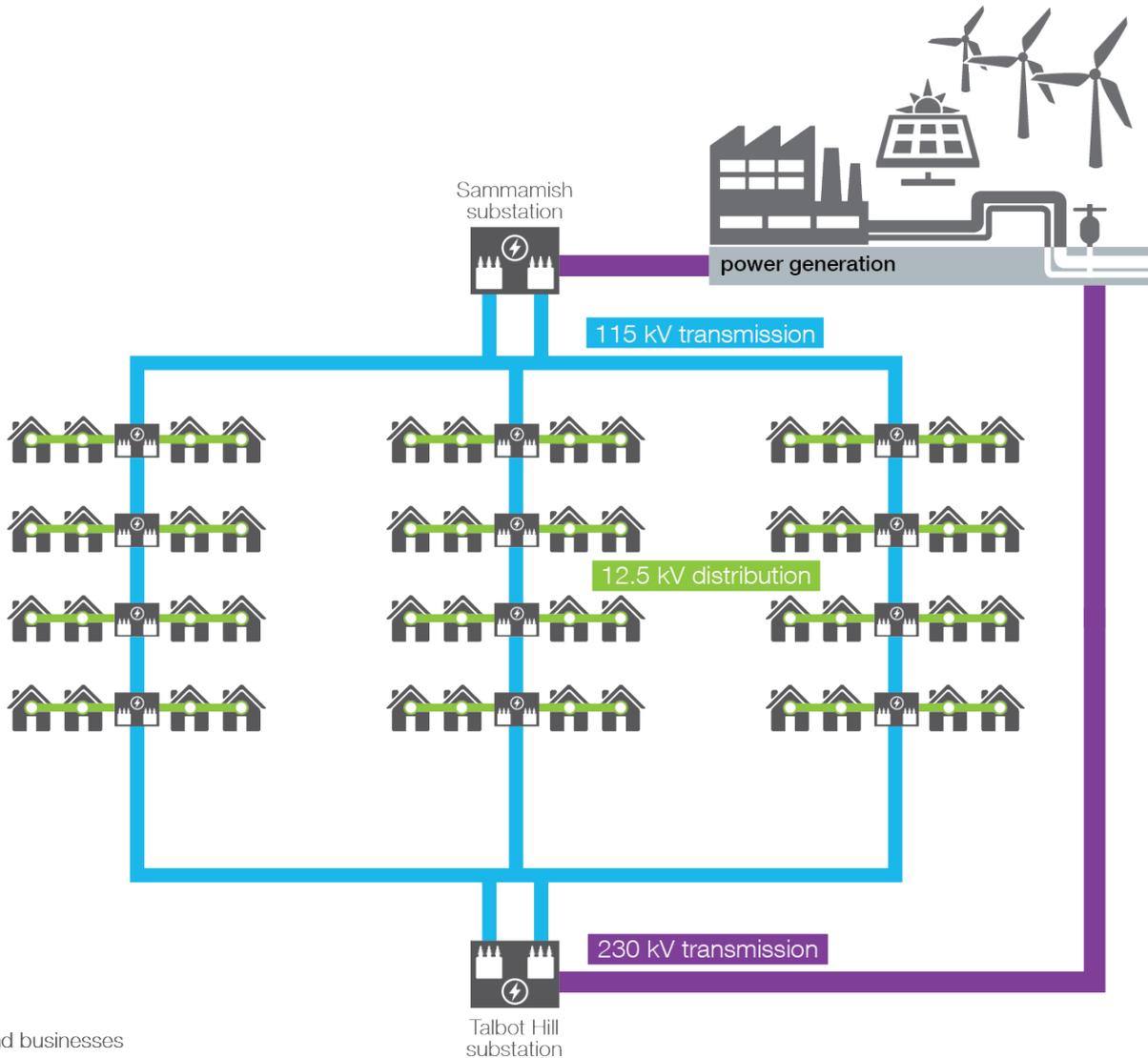
Animated infographic

Today's system

How does power get to you?

All energy begins at a **generation source**. PSE uses a variety of energy sources including hydroelectric, natural gas, and wind.

Most of our generation sources are several hundred miles away from where we live. Transmission lines and substations allow this energy to be delivered to our cities and neighborhoods.



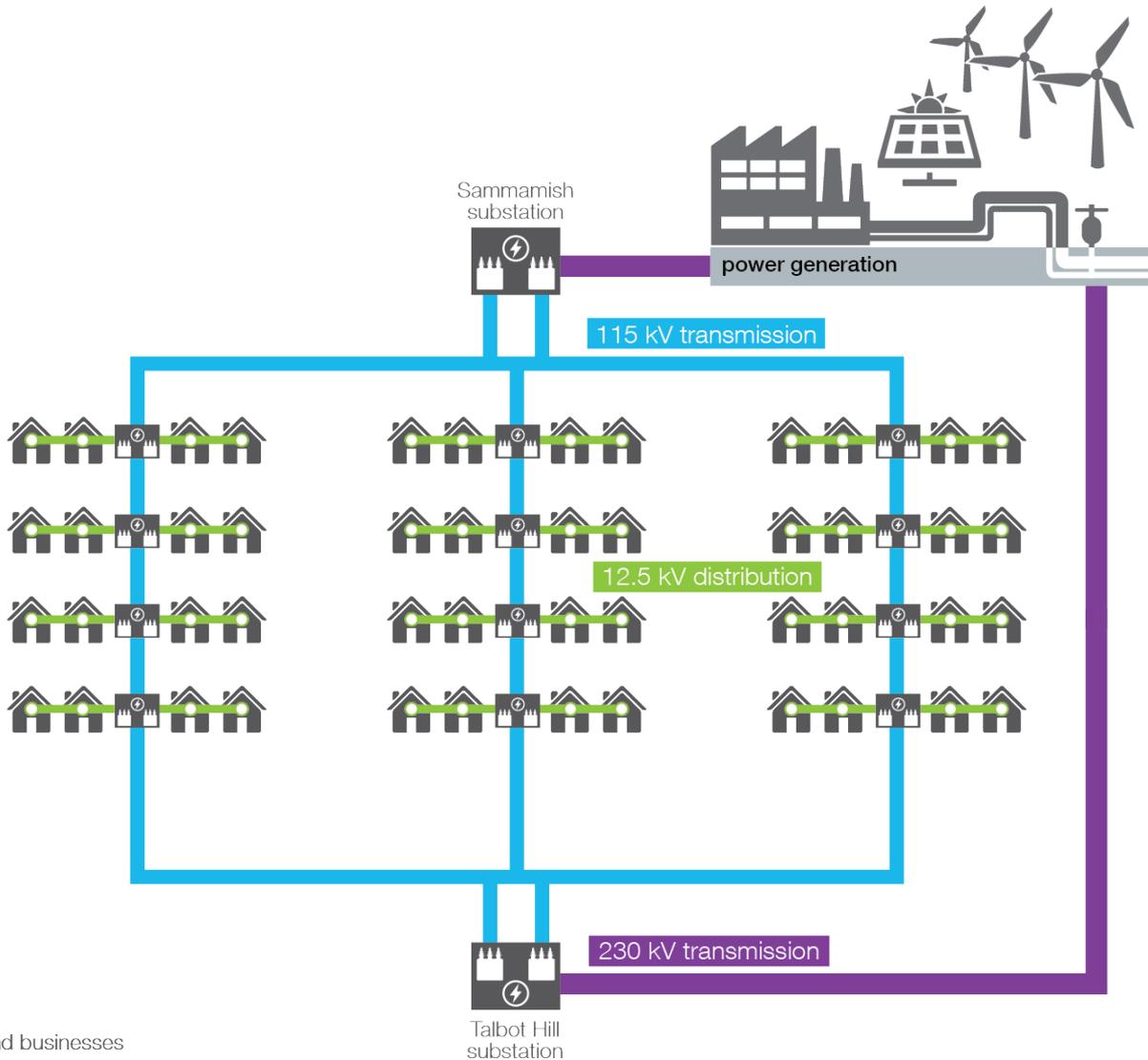
Today's system

How does power get to you?

Power is moved from generation sources to our region via **230 kV** electric transmission lines.

The power then arrives at a **large substation**, where it is transformed to a lower voltage. This power is then moved via **115 kV** transmission lines to smaller substations, where the power is transformed to an even lower voltage that can be distributed to homes and businesses on the Eastside.

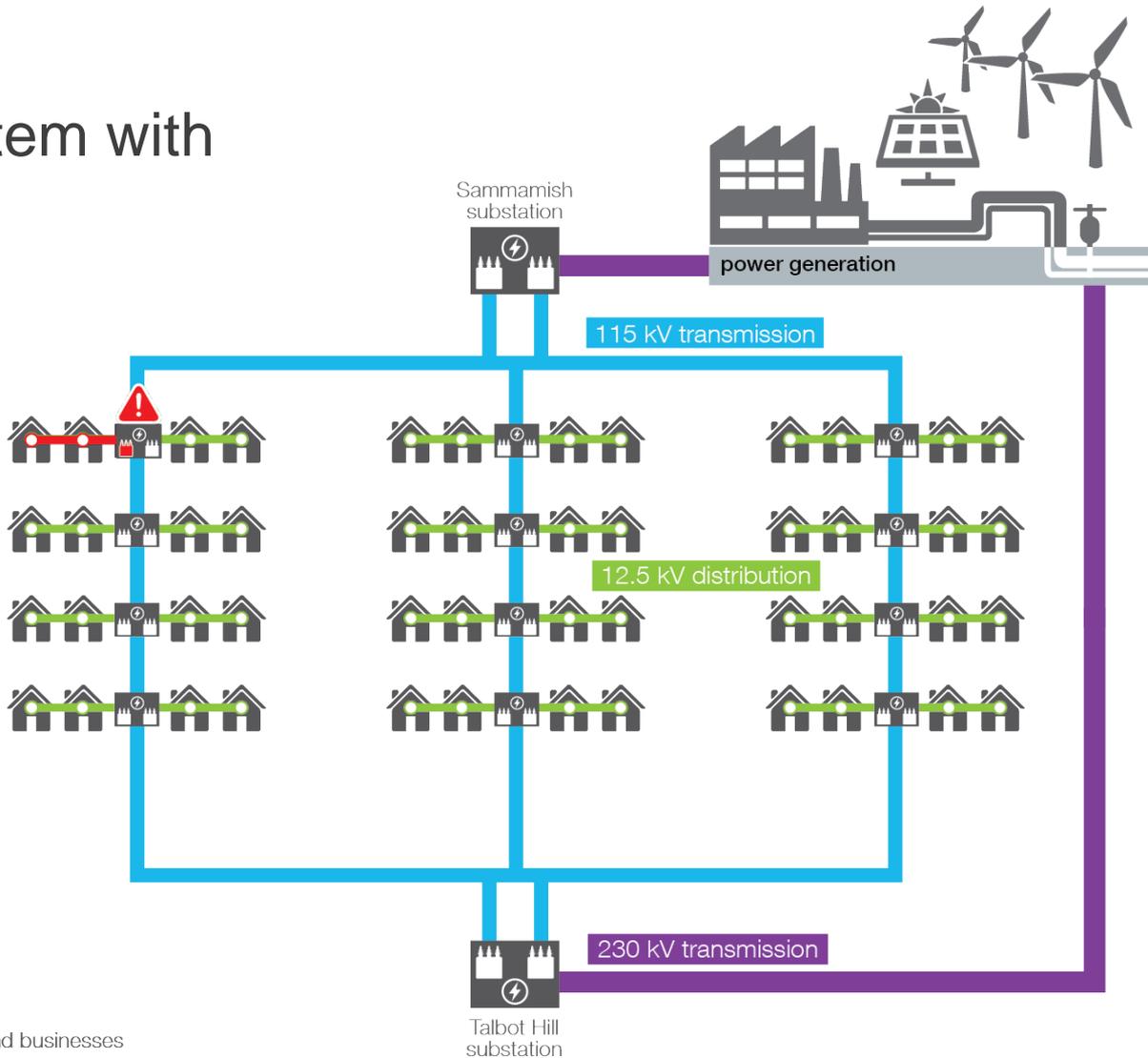
 = numerous homes and businesses



Scenario 1: Today's system with distribution outage

In this scenario, a local **115 kV/12.5 kV** transformer goes out and leaves some customers without power.

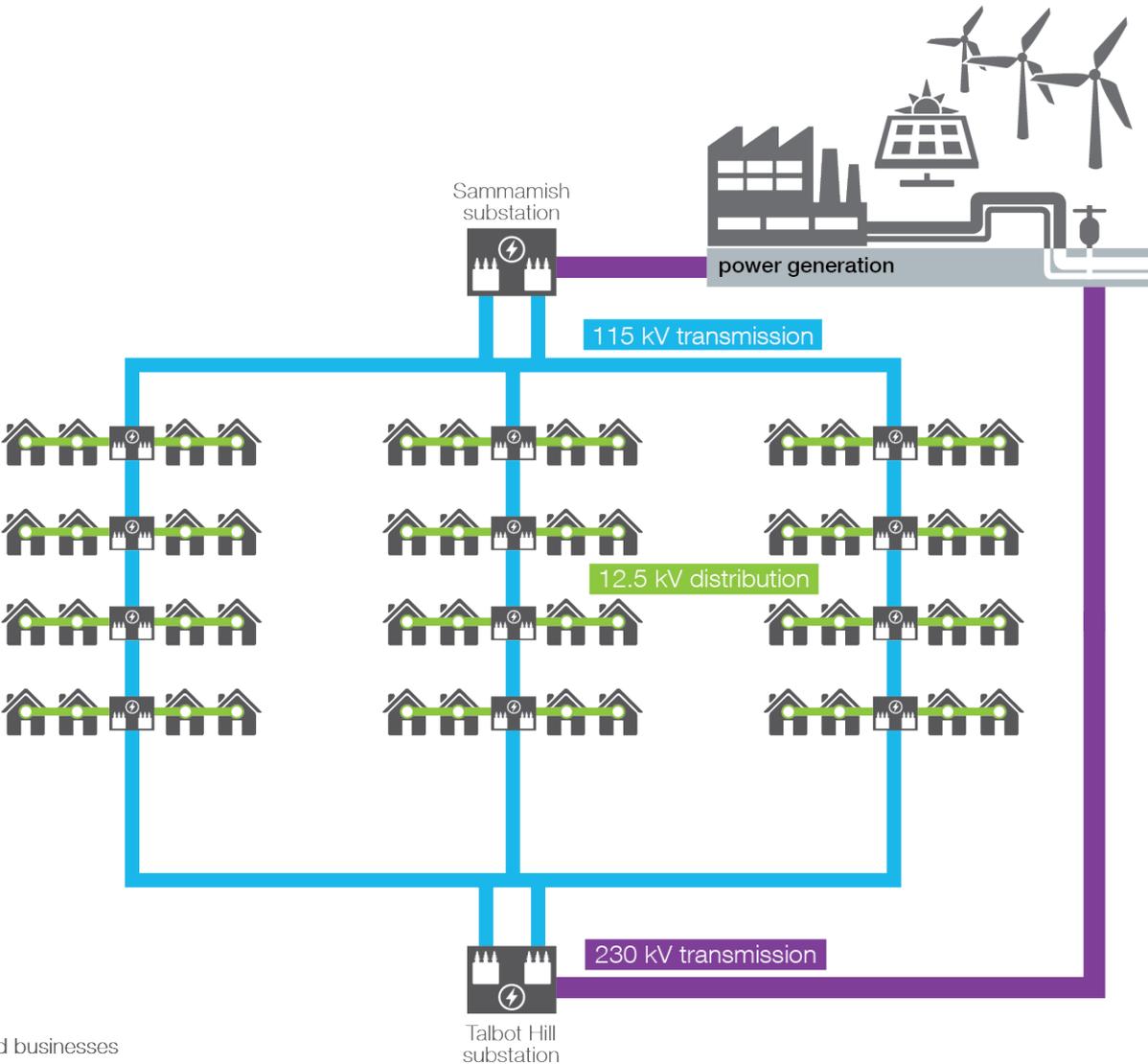
This is a local power outage and does not affect the broader Eastside system.



 = numerous homes and businesses

Future Growth

The Eastside continues to grow.

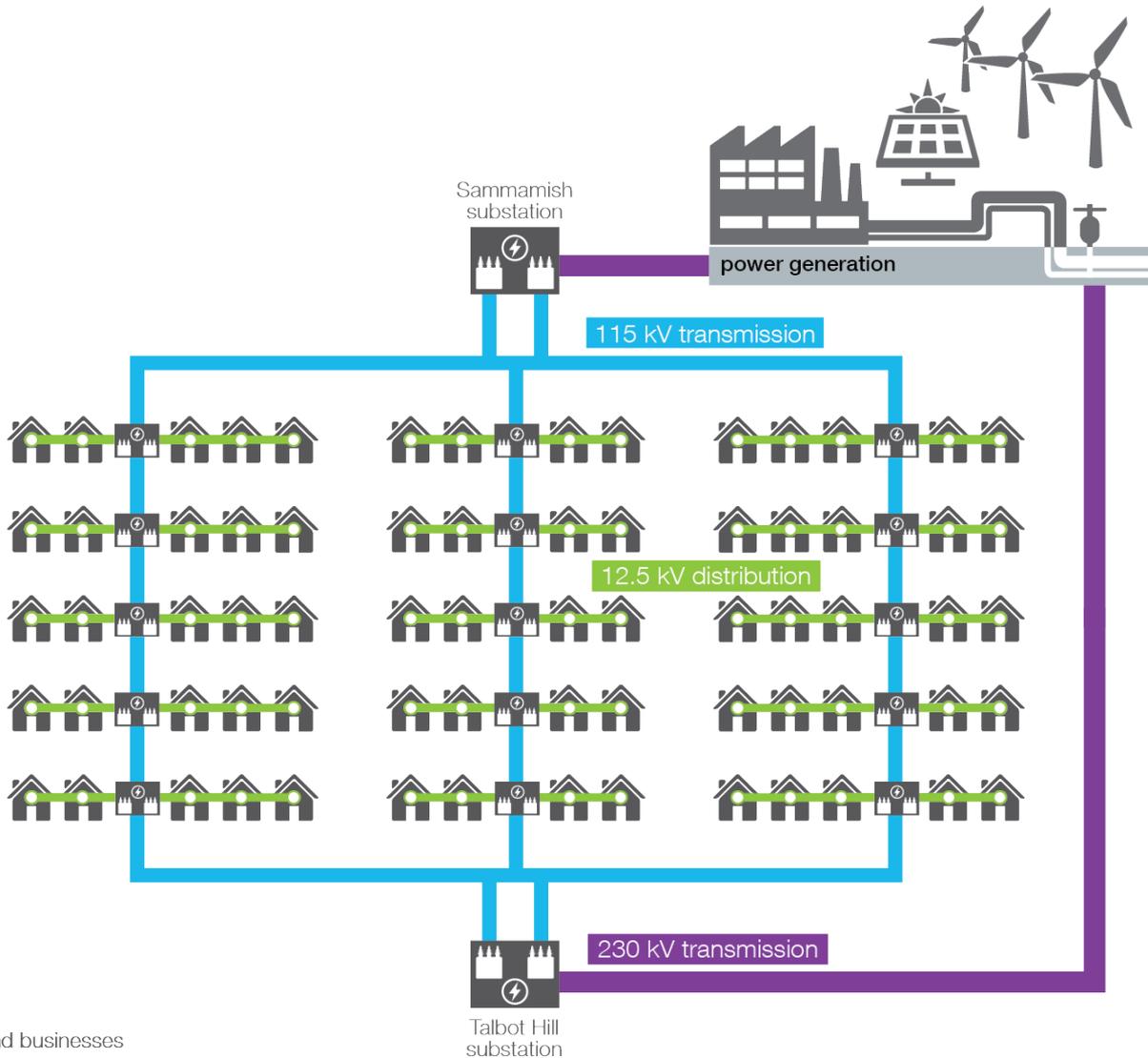


 = numerous homes and businesses

Future Growth

The Eastside continues to grow.

By 2040, we anticipate population to grow by more than 30 percent!

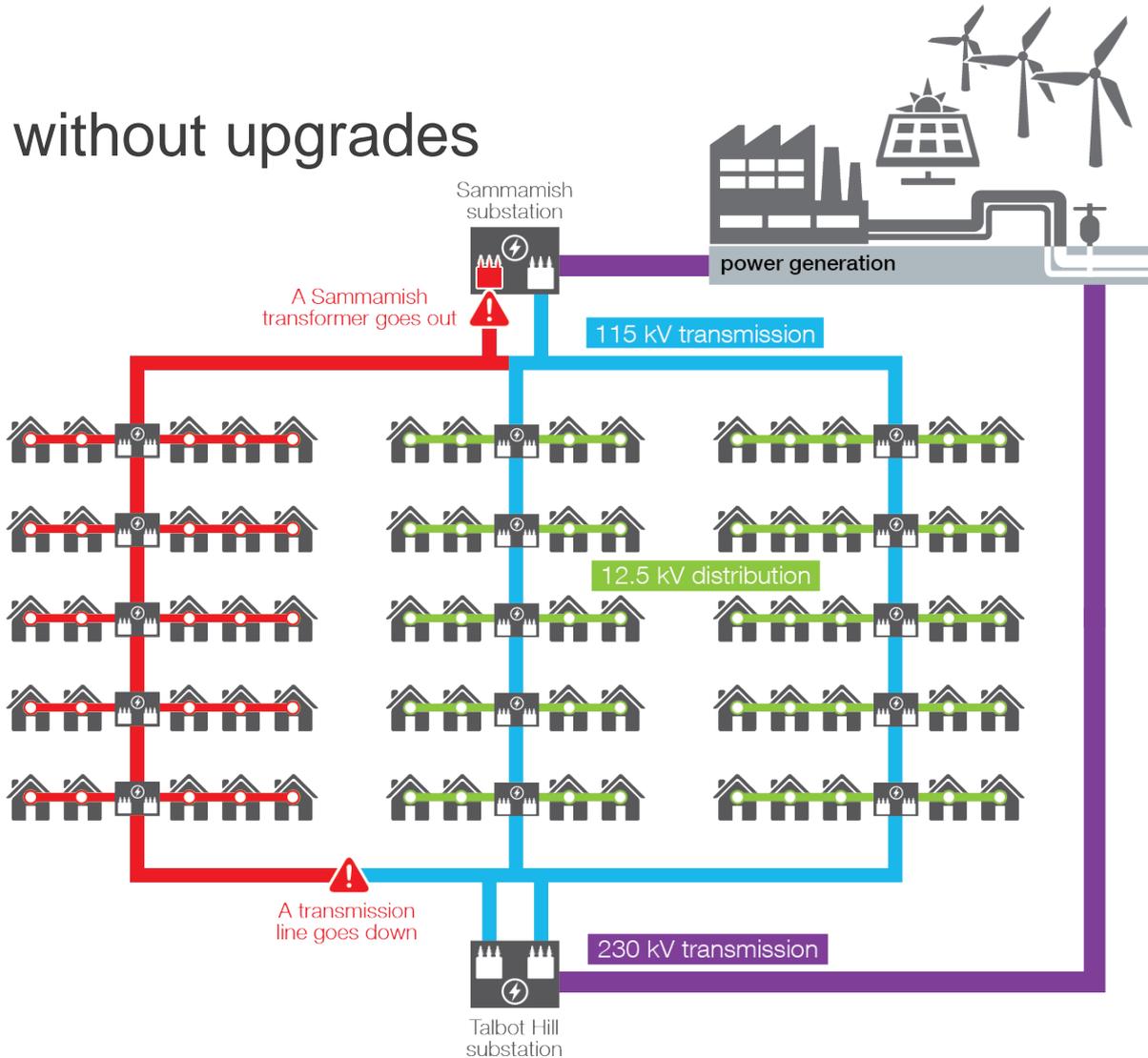


 = numerous homes and businesses

Scenario 2: 2017 / 2018 without upgrades

Transformer and transmission line outage

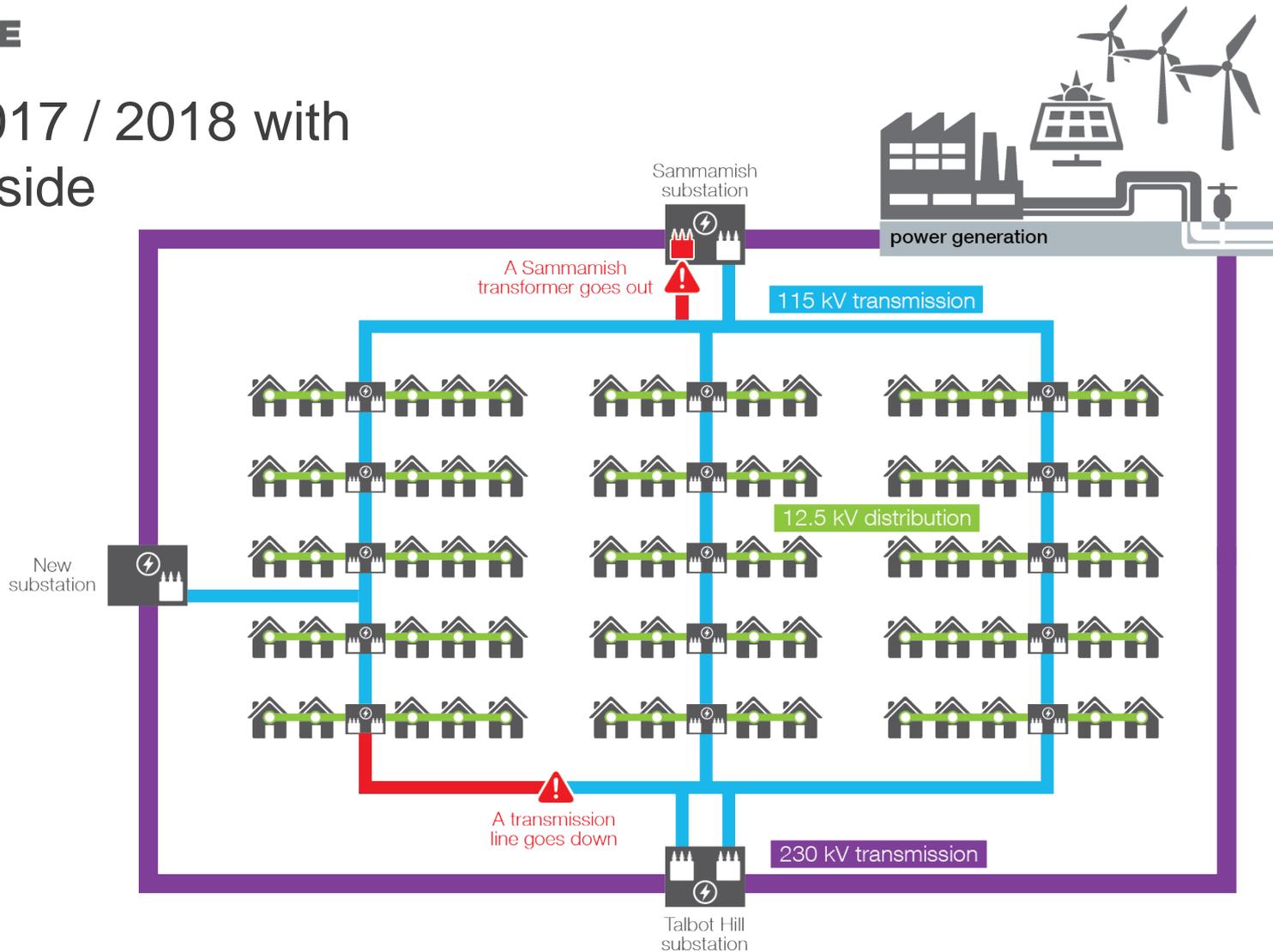
If a substation transformer and a transmission line are disabled, many homes and businesses on the Eastside will be without power.



Scenario 2: 2017 / 2018 with Energize Eastside

Transformer and transmission line outage

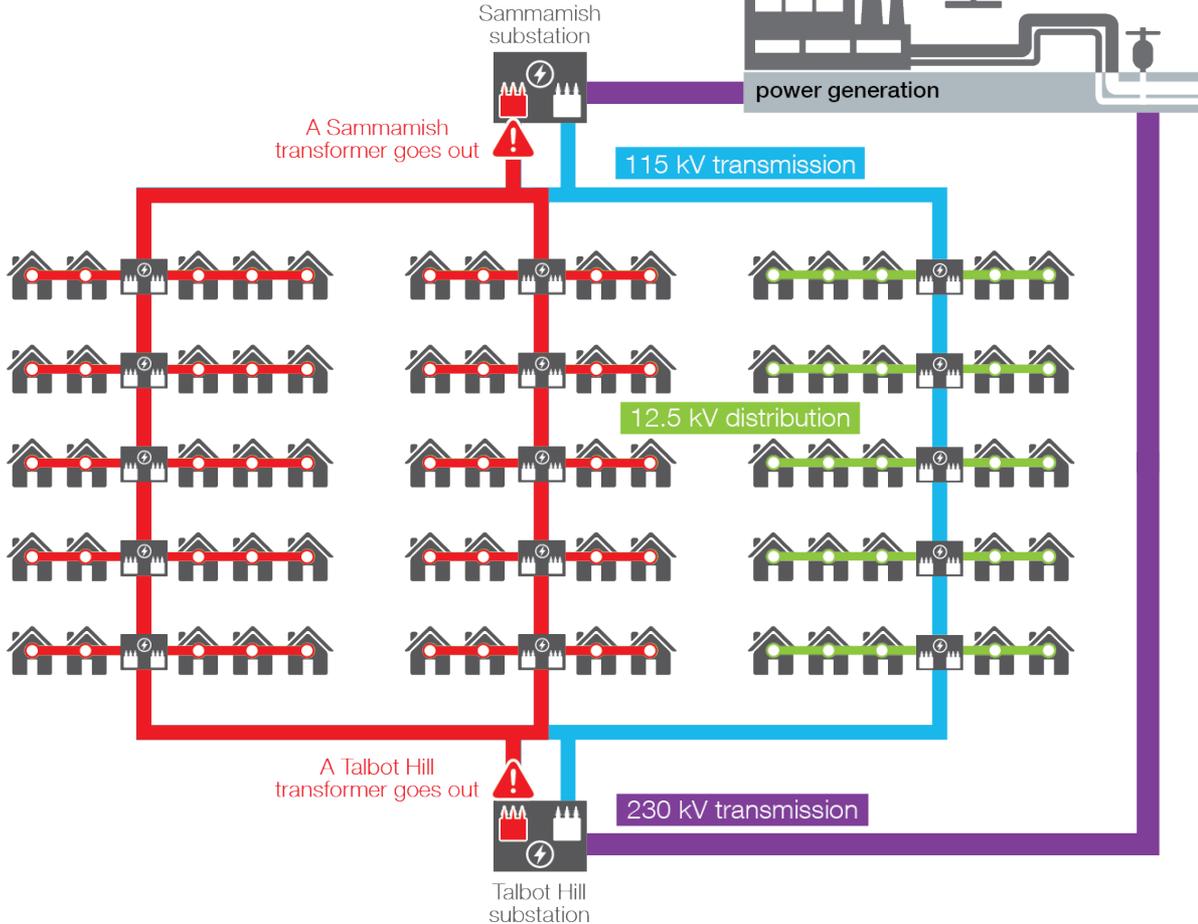
With the additional capacity provided by Energize Eastside's new substation and 230 kV transmission lines, an outage like this would not affect customers.



Scenario 3: 2017 / 2018 without upgrades

Double transformer outage

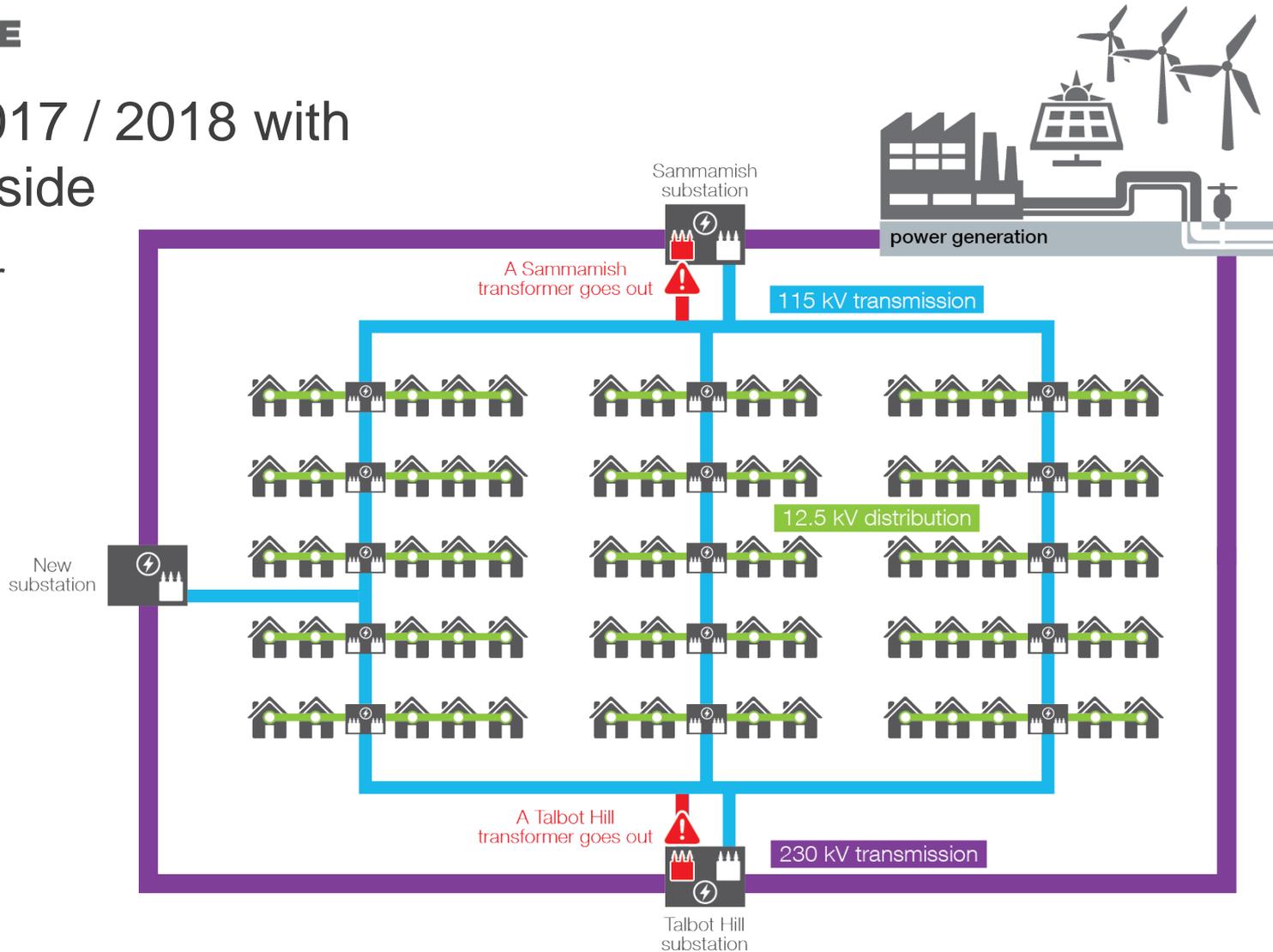
If one transformer at each substation is disabled, even more homes and businesses on the Eastside will be without power.



Scenario 3: 2017 / 2018 with Energize Eastside

Double transformer outage

With the additional capacity provided by Energize Eastside's new substation and 230 kV transmission lines, an outage like this would not affect customers.



For more information about the
Energize Eastside project, visit:

pse.com/energizeeastside