



# Electricity 101

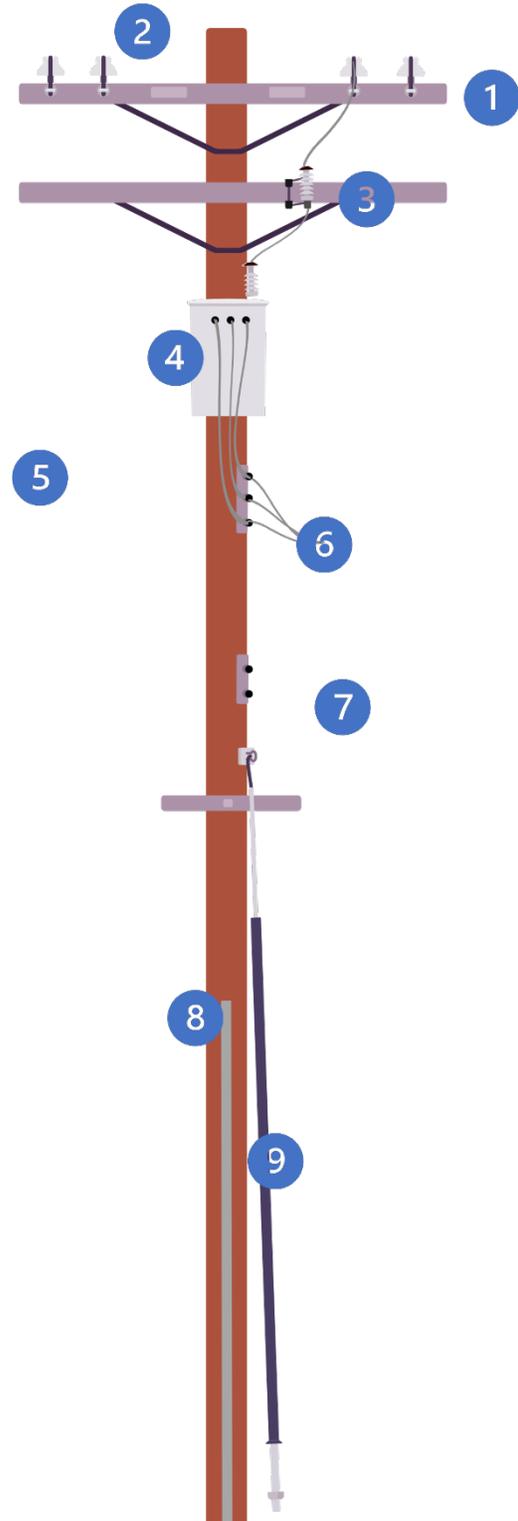


## Anatomy of a Hydro Pole

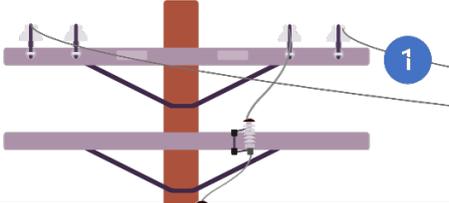
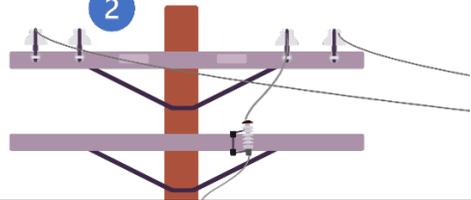
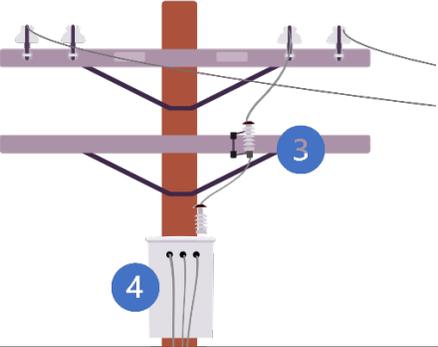
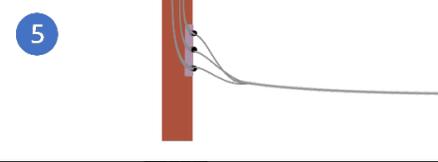
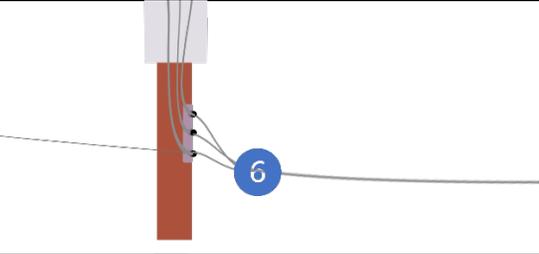
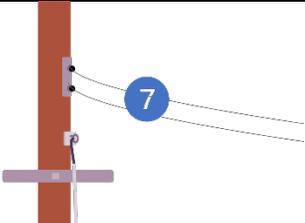
Table 1 Legend

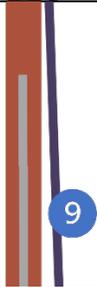
1	Primary wires are the high voltage lines that carry up to 37,600 volts
2	Insulators prevent energized wires from coming in contact with each other or the utility pole
3-4	Transformer steps down voltage from the primary line to the secondary line
5	Secondary wires carry up to 240 volts and are connected by a service wire to the house
6	Electric service wire to house from the secondary line
7	Phone and cable TV service wire to house
8	Ground wire runs the entire length of the pole. This directs any electricity on the pole safely onto the earth if there is a fault
9	Guy wires help stabilize poles

FOR ACCESSIBLE LEGEND PAGES 2 & 3



*Table 2 Accessible Legend*

<p>1</p>	<p>Primary wires are the high voltage lines that carry up to 37,600 volts</p>	
<p>2</p>	<p>Insulators prevent energized wires from coming in contact with each other or the utility pole</p>	
<p>3-4</p>	<p>Transformer steps down voltage from the primary line to the secondary line</p>	
<p>5</p>	<p>Secondary wires carry up to 240 volts and are connected by a service wire to the house</p>	
<p>6</p>	<p>Electric service wire to house from the secondary line</p>	
<p>7</p>	<p>Phone and cable TV service wire to house</p>	

8	Ground wire runs the entire length of the pole. This directs any electricity on the pole safely onto the earth if there is a fault	 A diagram of a utility pole. A horizontal purple line is at the top. A vertical brown pole runs down. A thin grey wire runs vertically down the pole. A blue circle with the number 8 is next to the grey wire.
9	Guy wires help stabilize poles	 A diagram of a utility pole. A vertical brown pole runs down. A thin grey wire runs vertically down the pole. A blue circle with the number 9 is next to the grey wire.