

POWER GENERATION



Sullivan County REC, along with 13 other co-ops in PA and NJ, is a member of Allegheny Electric Cooperative.

Allegheny works to purchase electricity for its member cooperatives at a low rate, which is then passed along to the cooperatives' members.

The electricity that supplies your home comes from five major sources:

1. Nuclear

a. Susquehanna Steam Electric Station supplies 54.3% of Allegheny's electricity.

2. Market Energy Purchases

a. Partnering with power trading firms supplies 36.6%.

3. New York Power Authority

a. Hydroelectric plants in New York supply 6.5%.

4. Hydroelectricity

a. Raystown Hydroelectric Plant supplies 2.5%.

5. Member Interconnections

a. Solar and wind member interconnections supply 0.1%.

If you have questions regarding your electric service, please call the office during regular business hours: Monday through Friday, 7 a.m. to 3:30 p.m.



Raystown Hydroelectric Plant.



Hydroelectric plant in New York.



Office: 570-924-3381
Outage: 570-924-3418



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 **Sullivan County
Rural Electric Cooperative**
A Touchstone Energy® Cooperative 

How Electricity Travels to Your Home



THE PATH OF ELECTRICITY: FROM GENERATION TO YOUR HOME



1 GENERATION

Electricity is generated at a power plant using energy sources such as coal, natural gas, nuclear, hydroelectric, wind, or solar.



2 TRANSMISSION LINES

High-voltage transmission lines carry large amounts of electricity long distances from the power plant to substations.



3 DISTRIBUTION SUBSTATION

A substation reduces the high voltage electricity from transmission lines to lower voltages that can be used on the distribution system.



4 DISTRIBUTION LINES

Distribution lines carry electricity from the substation to neighborhoods and businesses. These are typically three-phase lines with a neutral conductor.



5 DISTRIBUTION TRANSFORMER

Transformers mounted on poles further reduce the voltage to levels safe for use in homes and businesses.



6 SERVICE DROP

A service drop carries electricity from the transformer to your home via a weatherhead and meter.



7 YOUR HOME

Electricity enters your home through the service mast (weatherhead), down to a meter, and then into your home's service panel where it powers your lights, appliances, heating, and more.



A reliable system working together to power your life.

Generation | Transmission | Distribution | You

DID YOU KNOW...

Sullivan County Rural Electric Cooperative has five distribution substations:

- Dushore
- Estella
- Kellyburg
- Laporte
- Mill Creek

And one switching station:

- Shore Acres

The electricity traveling from power generation plants to our distribution substations on transmission lines is an extremely high voltage: more than 46KV! Our distribution substations reduce this voltage to be sent across our distribution lines. Distribution transformers, located at all members' service locations, then convert the voltage to household or industry voltage levels.

SCREC equipment at service locations:

- Distribution lines
- Distribution transformer
- Distribution transformer pole
- Service drop line
- Meter

Member's responsibility:

- Weatherhead
- Meter base (outside house)
- Breaker panel (inside house)