America’s Electric Cooperatives

From booming suburbs to remote rural farming communities, America’s electric cooperatives are energy providers and engines of economic development for more than 19 million American homes, businesses, farms and schools in 47 states.

833 distribution and 62 generation & transmission cooperatives

Power

56% of the nation’s landmass.

Own and maintain 42% (2.6 million miles) of U.S. electric distribution lines.

Power more than 19 million businesses, homes, schools and farms.

Serve 42 million people across 88% of U.S. counties.

Distribution cooperatives are the foundation of the electric cooperative network. They are the direct point of contact with co-op members in the delivery of electricity and other services.

Generation & transmission cooperatives provide wholesale power to distribution co-ops through their own electric generation facilities or by purchasing power on behalf of the distribution members.

For more information, visit: www.electric.coop | @NRECANews
Electricity use and fuel mix

Electric cooperatives play a vital role in transforming the electric sector. Advanced communications and automation technology enable co-ops to improve the resiliency and efficiency of their systems as they reduce environmental impacts by adding renewable resources.

Note: Non-hydro renewables includes owned and directly purchased generation, plus generation in the mix from wholesale market purchases.

- Co-ops added 295,995 new members in 2016
- 84% of electric co-ops had a net increase in members in 2016
- Electricity demand at co-ops increased about one-half of a percent in 2016, with co-op retail sales reaching 435 billion kilowatt-hours
- Co-op residential electricity sales increased 0.4%
- Commercial & industrial increased 0.3%; irrigation sales jumped 10.5%

Co-ops generate 5% of total U.S. electricity and sell 13% of all U.S. electricity.

Electricity sales growth

Co-op sales growth rates generally surpass that of the electric utility industry as a whole.

Source: EIA
Co-ops are reducing emissions …

Cleaner air:
Cooperatives are reducing emissions through a combination of emission-reduction measures at power plants and fuel switching to natural gas and renewables.

- Since 2010, co-op non-hydro renewable energy capacity has more than doubled from 4 gigawatts to 9.2 gigawatts—a 130% increase. More than 90 percent of electric co-ops provide electricity generated by renewable energy resources.

- Co-ops purchase 10 gigawatts of hydropower from federal power marketing administrations.

- More than 560 co-ops in 37 states use 6.9 gigawatts of wind energy.

- Total solar energy capacity at electric cooperatives is more than four times what it was in 2015, capable of generating more than 860 megawatts of electricity.

- A Department of Energy partnership with 17 electric co-ops has supported the development of 23 megawatts of utility-scale solar in 15 states.

… and jump starting renewable energy growth

Co-ops have:

- Reduced sulphur dioxide emissions 66% during 2009-2016.
- Reduced nitrogen oxide emissions 24% during 2009-2016.
- Reduced carbon dioxide emissions 8% since 2005 while increasing generation by 15 million megawatt-hours.

Cooperative solar is skyrocketing

Solar Capacity (megawatts AC)

<table>
<thead>
<tr>
<th>Year</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>35</td>
</tr>
<tr>
<td>2011</td>
<td>48</td>
</tr>
<tr>
<td>2012</td>
<td>72</td>
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<tr>
<td>2016</td>
<td>540</td>
</tr>
<tr>
<td>2017</td>
<td>867</td>
</tr>
</tbody>
</table>

Source: EPA and EIA

NOTE: Co-op solar capacity owned or purchased under contract

Source: NRECA
Electric cooperatives are local energy and technology providers. They are shaped by the specific needs of the communities they serve. This local, member-owned structure is one reason why cooperatives enjoy the highest consumer-satisfaction scores within the electric industry, according to J.D. Power and Associates and the American Consumer Satisfaction Index.

- Co-ops earned the top spot in the J.D. Power and Associates 2017 Electric Utility Customer Satisfaction Study.
- Electric cooperatives, on average, score three points higher than all other energy utilities, according to the 2017 American Consumer Satisfaction Index.

Committed to serving the last mile
- Co-ops serve an average of 8 consumers per mile of electric line; collect annual revenue of $19,000 per mile of line.
- All other utilities average 32 customers per mile of line; collect $79,000 per mile.

Electric cooperatives are guided by seven principles:
1. Voluntary and open membership
2. Democratic member control
3. Members’ economic participation
4. Autonomy and independence
5. Education training and information
6. Cooperation among cooperatives
7. Concern for community

Electric cooperatives are economic engines in their communities

- Invest $12 billion annually in local economies
- Own $183 billion in assets
- Pay $1.3 billion annually in state/local taxes
- The entire electric power sector generates $880 billion in economic impact annually (5 percent of America’s GDP)

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