CHINA’S ROLE IN MANAGING GREENHOUSE GAS EMISSIONS

A UTILITY INDUSTRY PERSPECTIVE

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Total and Per Capita Emissions Foreshadow a Difficult Challenge

U.S. and China account for 42% of all global CO₂ emissions

Annual CO₂ Emissions (Billion Metric Tons)

- U.S.: 5.8
- China: 6.1
- All Other Countries: 16.5

<table>
<thead>
<tr>
<th>MWh Electric Consumption Per Capita</th>
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<tbody>
<tr>
<td>China</td>
</tr>
<tr>
<td>2.3 (- exports)</td>
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<tr>
<td>U.S.</td>
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<td>13.6 (+ imports)</td>
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Although China leads the world in total emissions, the U.S. consumes much more electricity per capita.

As the consumption gap narrows, Chinese emissions will grow significantly.

Partnership Objectives

- Accelerate technology development and commercial application through technology demonstration, deployment, and knowledge transfer
- Generate & execute new commercial investments and business development opportunities
- Gain access to diverse sources of capital
- Attract companies to Duke Energy’s service territory in support of economic development

Potential partners are selected based on:
- Commitment to our objectives
- Areas of technology expertise
- Desire to build a mutually beneficial relationship
EV Fast Charging coupled with Storage: an avenue to mitigate demand spikes created by EV charging

BYD’s all electric E6:
In support of electrifying our fleet we are in discussions to integrate six e6’s
Huaneng Post Combustion CO₂ Capture System removes 3,000 tons of CO₂/year
ENN Greenhouses for CO$_2$ BioFixation
ENN EcoCity:

As part of the US-China EcoPartnership, ENN will share lessons from the EcoCity which features a variety of distributed technology solutions.