

The Importance of Teaching Energy Efficiency

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Environmental Commissioner of Ontario

Overview

- **The lens of energy conservation**
- **The economic argument**
- **The climate change imperative**
- **The technological opportunity**

Energy Conservation

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 - Acquiring the same value, good or service utilizing a reduced amount of energy
 - Choosing a role or lifestyle that uses less energy – frugality, austerity or ethics
 - **Owning your own/community distributed energy generation or source**

The Economic Argument

- **Conservation is documented in several areas to be the cheapest source of new energy**

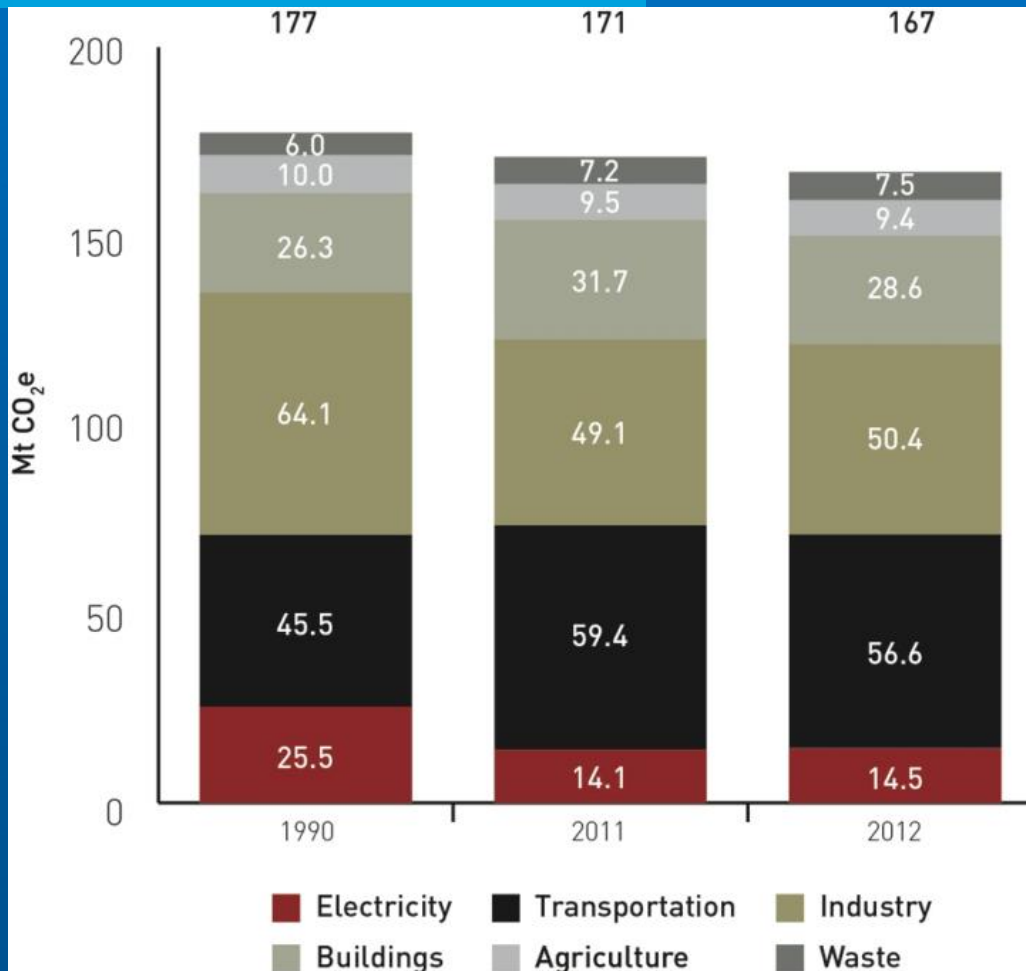
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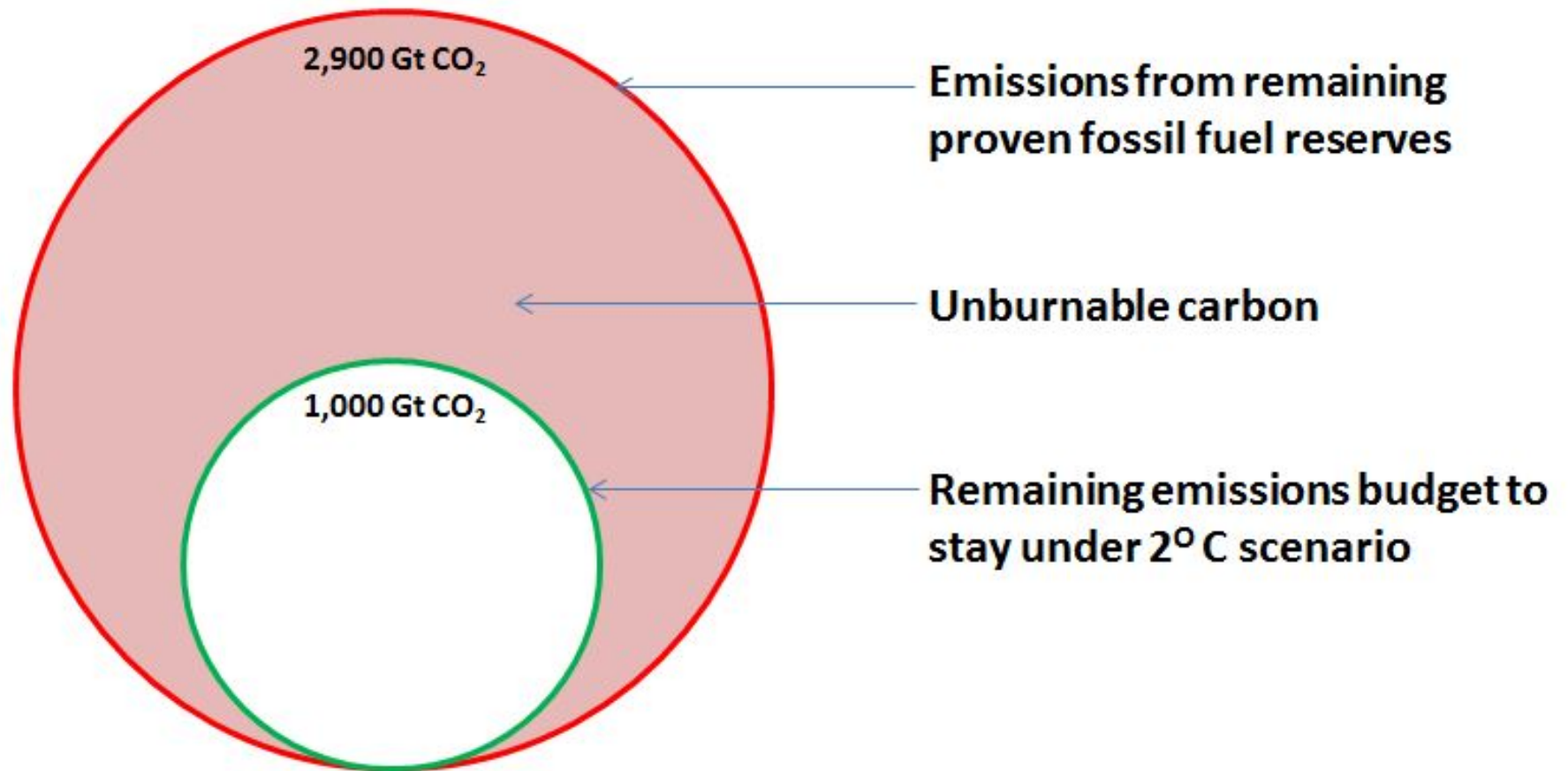
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- The pursuit of “labour productivity” absent “energy productivity” is foolish
- **This is the competitive advantage of our economy**

The Climate Change Imperative



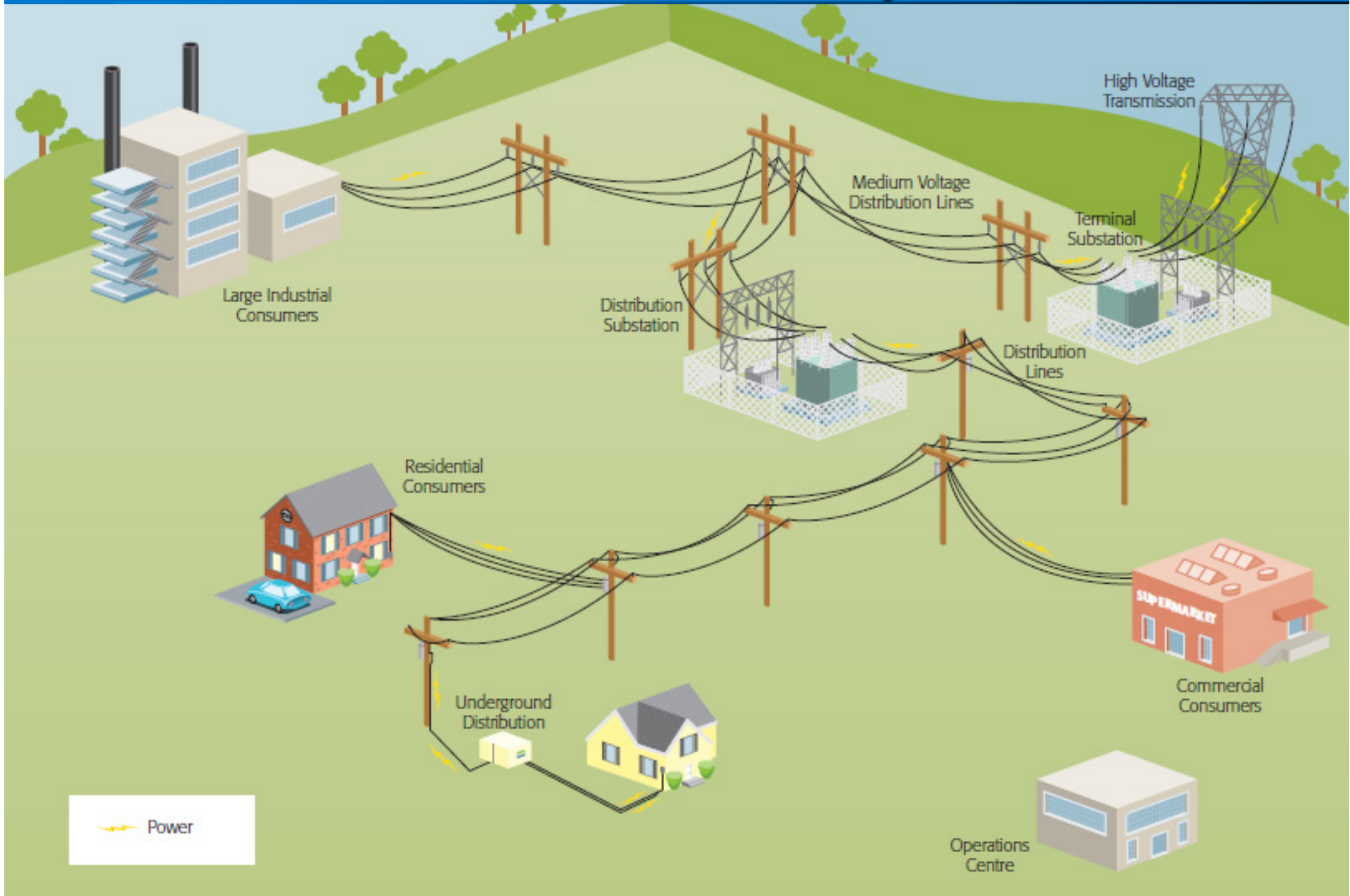
In order to have a 66% chance of preventing a 2°C rise in average temperature total cumulative CO₂ emissions cannot exceed 2900 Gt ... just under 1900 Gt have already been emitted leaving a remaining budget of only 1000 Gt ...

UNBURNABLE CARBON

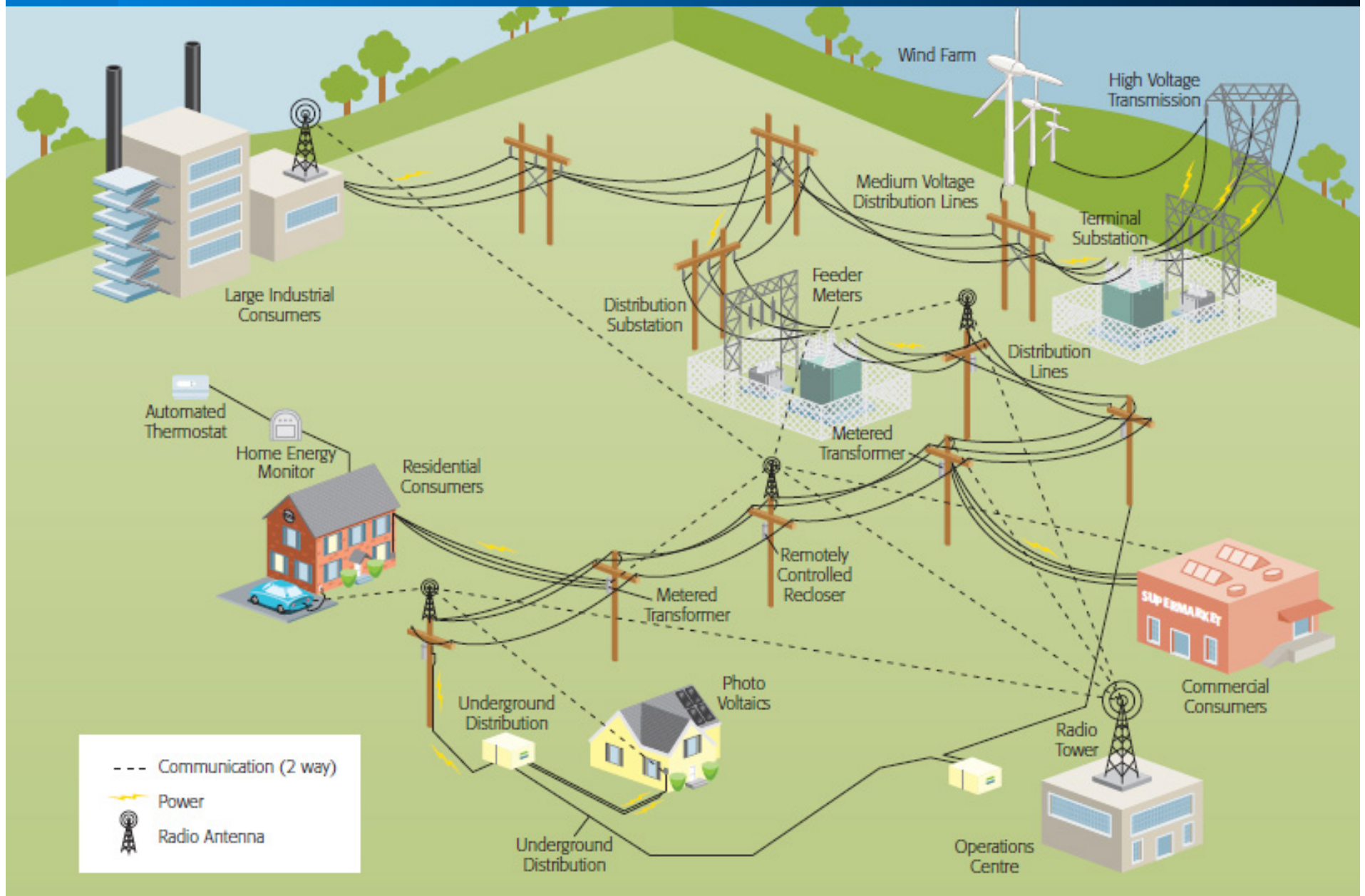


Smart Grid: a Huge Opportunity

Distribution Grid Today



Distribution Grid Tomorrow



Smart Grid: a Huge Opportunity

- **Enabling distributed renewable generation**

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- **Managing consumer demand**

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- **Allowing decisions to be based on data**

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- Allowing decisions to be based on data
- Improving reliability
- Fueling electric vehicles
- **Storing electricity**

In Summary ...

- **Energy Conservation/Efficiency**
 - An economic necessity
 - A climate change imperative
 - A huge opportunity

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- **Energy Conservation/Efficiency**
 - An economic necessity
 - A climate change imperative
 - A huge opportunity
- **It is the path to the future we must embark on ...**

Thank You For Your Attention

The ultimate test of a moral society is the kind of world that it leaves to its children.

Dietrich Bonhoeffer, theologian (1906-1945)
