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Region	Population	GDP	Energy	Energy /Capita	Energy /GDP
USA	4.6%	18.9%	19.5%	100	100
EU	7.5%	25.1%	14.8%	47	57
Japan	1.9%	8.8%	4.3%	52	47
China	20.0%	4.5%	16.3%	19	355
India	17.0%	1.5%	4.9%	7	317
World	100%	100%	100%	23	97
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Sector	Share	Index USA/EU
Industry	32%	1.2 : 1
Homes & Buildings	40%	2.5 : 1
Transportation	29%	1.4 : 1
 Most energy lost in rang Building efficiency poten Industrial efficiency pote 	e of inefficie tial often ur ntial often c	encies nderestimated overestimated

*Indicative ratio of US average to EU Averag



















Develop Long-Term CEP Goals Example – Arlington County

- Affordable, reliable energy supplies
- Flexible to meet changing technologies, legislation and market conditions
- Meet investor, employer and resident needs
- Meet Arlington's "Cool County" commitment

Headline Measurement

Reduce Arlington's annual GHG emissions to 3.0 mt CO2e per capita by 2050. If an effective regional energy plan is put in place, achieve 2.2 mt CO2e per capita per year.

Greenhouse gas emissions used as a good surrogate for energy and fuel use efficiencies

CEP Framework Loading Order Priorities

- 1. Energy efficiency If you don't need it don't use it
- 2. Heat Recovery It it's already there use it
- 3. Renewable energy *If it makes sense, go carbon free*
- 4. Energy distribution *Invest where it makes sense*

Integrated Approach – Tailored for Community











































