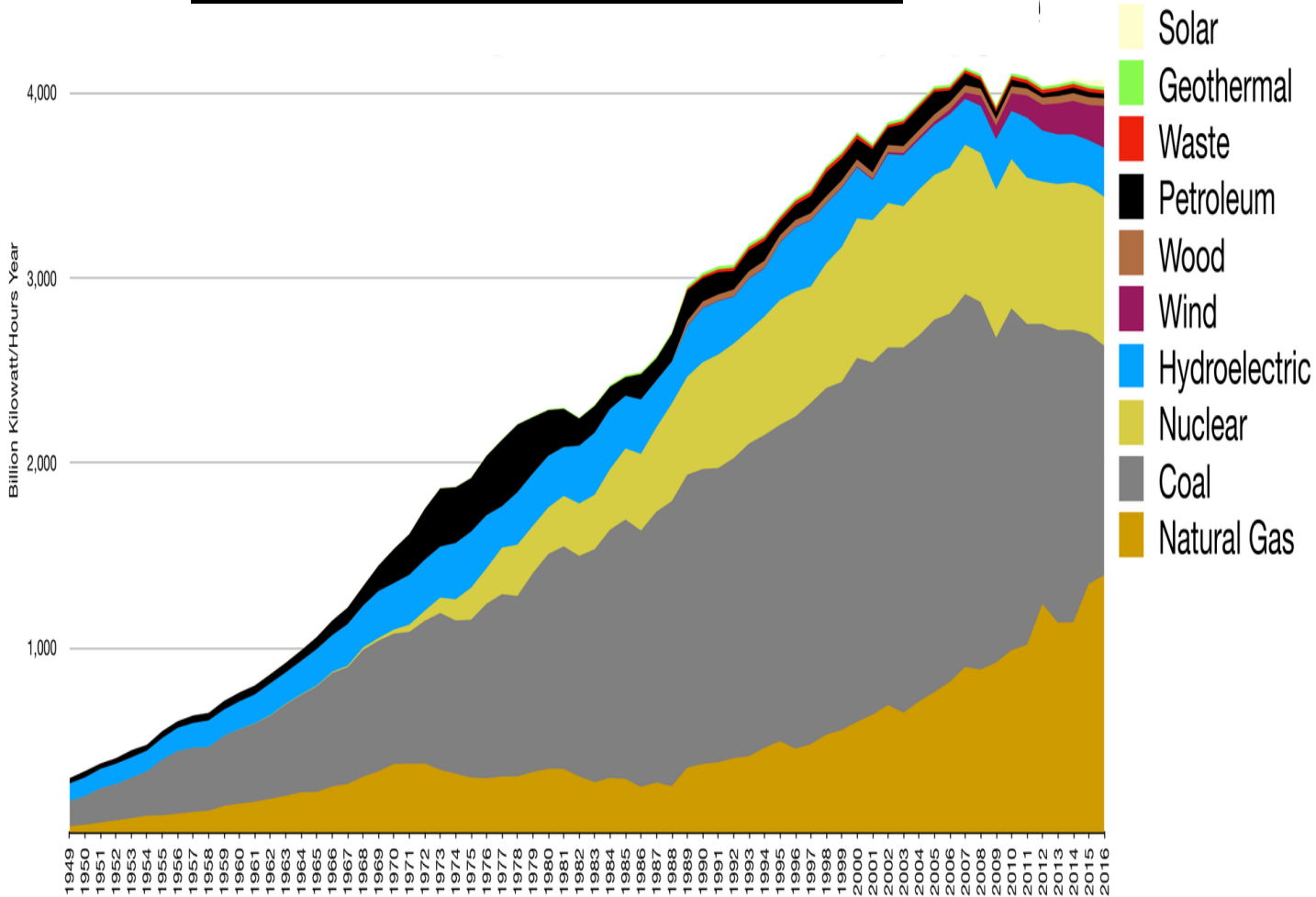
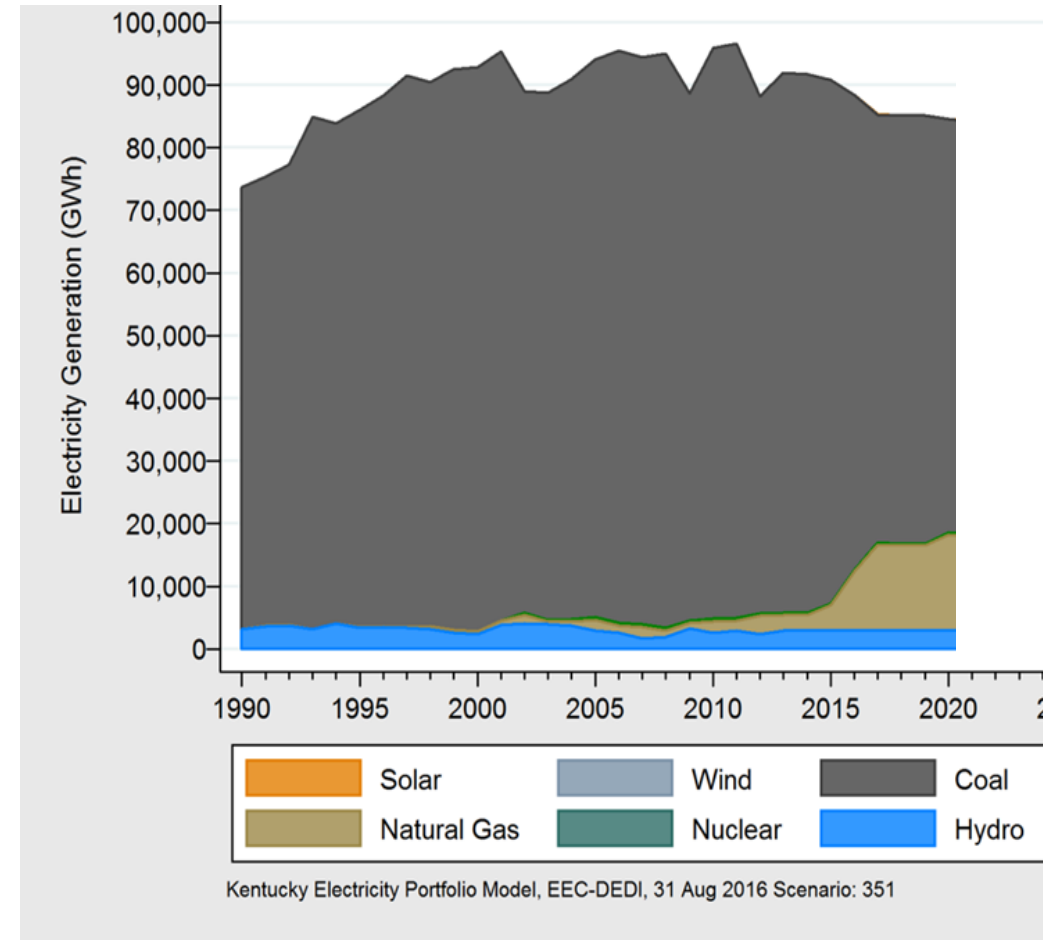


Electricity Generation U.S. vs. Ky

U.S. Elec. Generation by Type



Ky Elec. Generation by Type



100% Potential
BTU per Unit of Coal



Mining

98%



Transportation

96%



Storage

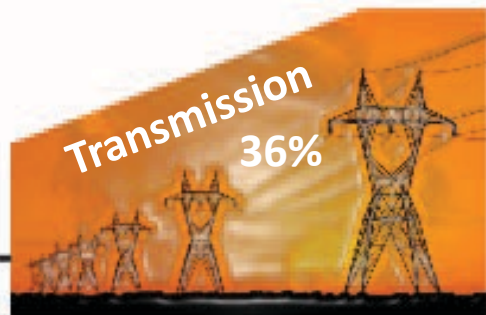
94%



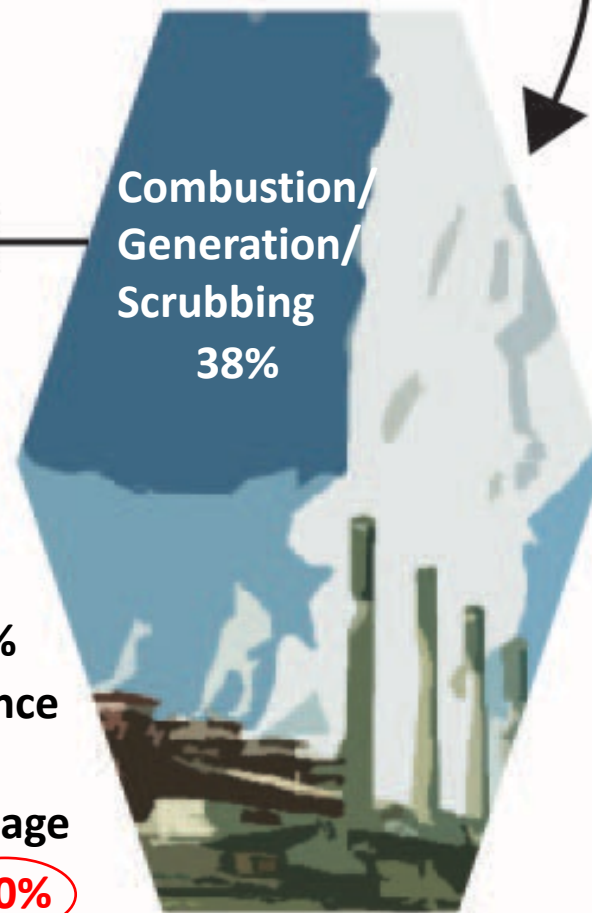
Loading



Transformation
31%



Transmission
36%



Combustion/
Generation/
Scrubbing
38%



Reduction
28%



26%
Demand



24%
Appliance



Usage
20%

Examples of New Renewable Generation in Central Kentucky



**LG&E/KU E.W. Brown
Generating Station: 10 MW**



**Mother Ann Lee Hydroelectric
Station: 2,040 kW**



East Kentucky Power: 8.5 MWs



BMU Solar Lease: ~ 60 kW



Genex (In Development): 100 – 200 MWs

End Use Saving Opportunities

The 3 Keys to Energy Savings

- 1. Conservation
- 2. Energy Efficiency
- 3. Renewable Energy



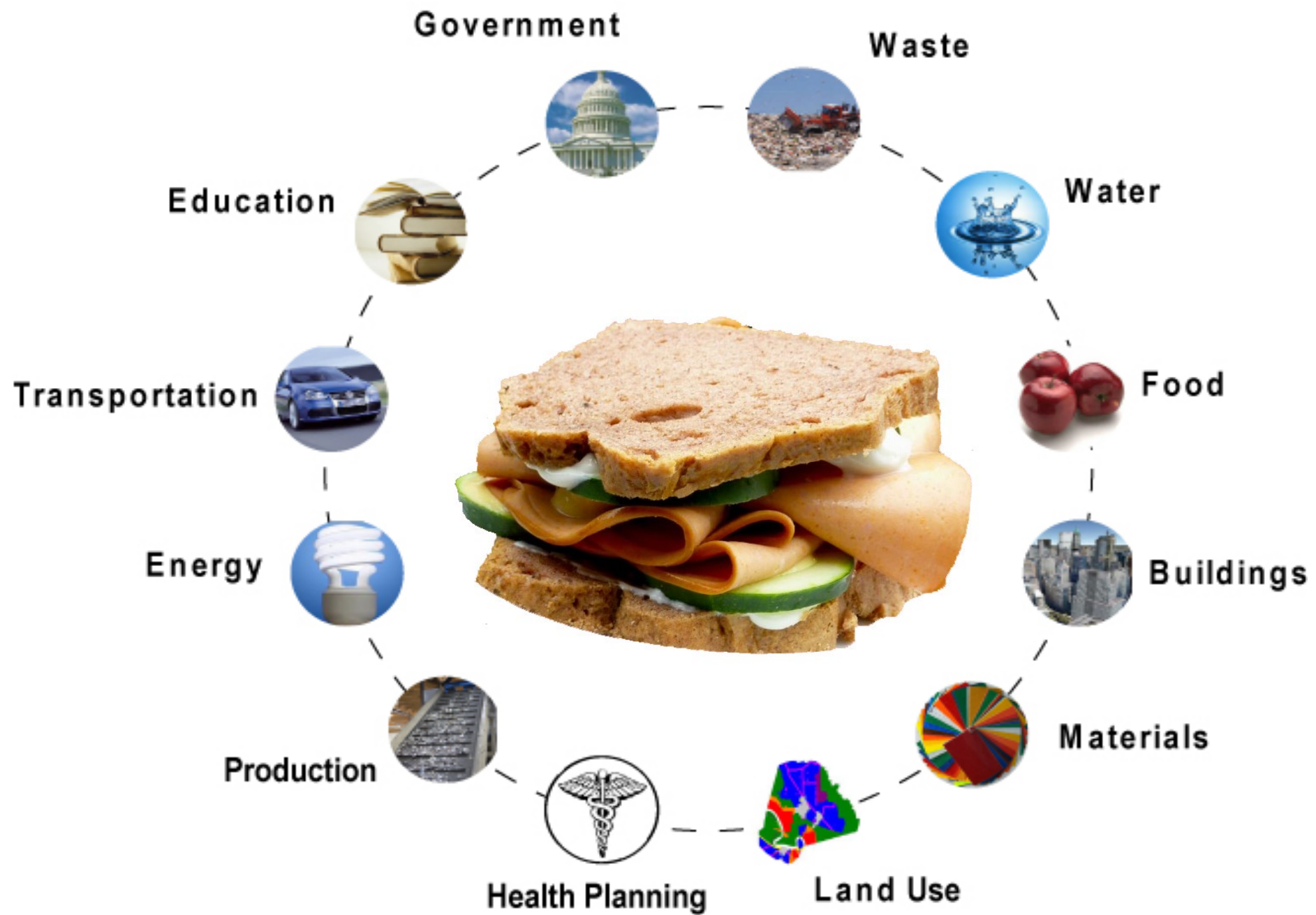
Return on Investment (ROI)



*Savings go to the bottom line



Expenditure Type	Capital Investment	No Cost/ Low Cost	Utility Bills/ Demand Charge	Additional Expenses
Examples of Savings	controls, lighting, HVAC, thermal envelope...etc	time of use, set backs, commissioning, user error, malfunctions	peak shaving, load shifting, demand side management, bill errors	outside consulting savings, efficiency of repair, and decisions, data management
Range of Savings	20 - 30%	10 - 20%	Variable	Variable
	Demand Cost		Supply Cost	Misc. Cost





SMART GRID

A vision for the future — a network of integrated microgrids that can monitor and heal itself.

