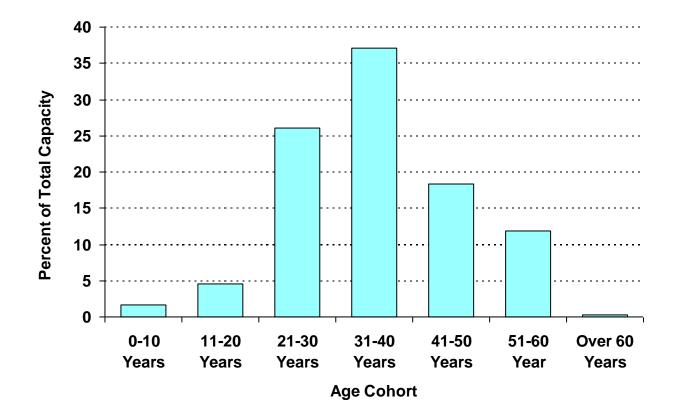
Challenges for Transitioning the U.S. Electric Utility Industry to a Low-Carbon Generation Path

Tim Fagan Public Service Enterprise Group

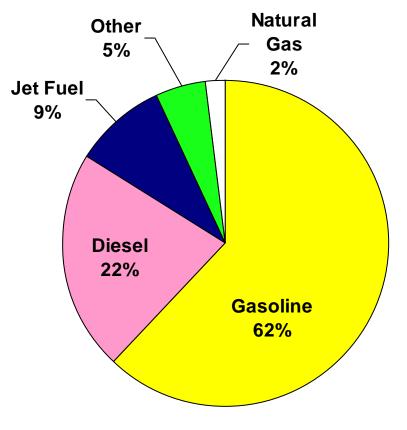


"Our vision is to be increasingly recognized as a leader for people providing safe, reliable, economic and green energy"

PSEG CEO Ralph Izzo



Fuel Used for Transportation



93% is petroleum based

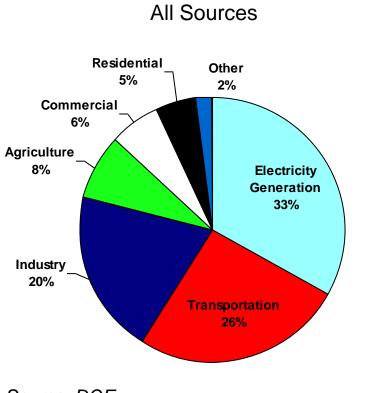
Source: DOE

Challenges

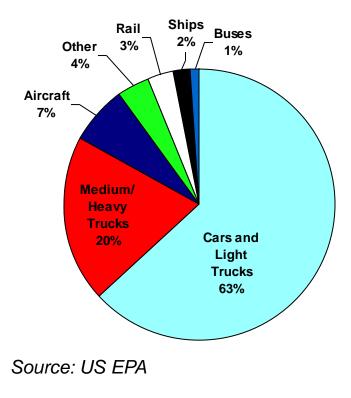
- Magnitude
- Complexity
- Human

U.S. Carbon Emissions

Sources of Greenhouse Gas Emissions –



Sources of Greenhouse Gas Emissions – Transportation Sector



Complexity of the Challenge

- Supply and demand side solutions
- Technological breakthroughs
- Intermittent supply
- Distributed supply
- Carbon capture
- Transmission and distribution efficiency
- Other environmental issues
- Smart grid

The Human Element

Two sides of the human coin

- General public support
- Political courage

Public Priorities

Public Top Priorities for 2010	
Economy	83
Jobs	81
Terrorism	80
Social Security	66
Education	65
Medicare	63
Deficit Reduction	60
Health Care	57
Helping the poor	53
Military	49
Energy	49
Health Ins.	49
Crime	49
Moral Decline	45
Finance	45
Environment	44
Tax cuts	42
Immigration	40
Lobbyists	36
Trade Policy	32
Global Warming	28

Build the bridge

- Implement environmental regulations
- Scale up EE/clean energy investments
- Build public support

Long Term

- Investment opportunities
- More than good engineering and financial incentives

Cross the bridge together