Results from Exercise 7

Comparison of key findings:

Variable	CD	PC
Impact on energy use, %	-20	-1.2
Cost in CV, billion \$	135	150
Tax revenue raised, billion \$	120	148
Net cost before climate benefits, billion \$	15	2

How well does the policy work?

Criterion	CD	PC
Effective at reducing emissions:	yes	no
Lower cost in CV:	yes	no
Higher revenue raised:	no	yes
Low net cost:	yes	very

- Policy is either effective or inexpensive on a net basis
- Can rule out worst case: ineffective and expensive

Climate benefits under CD:

Energy-related CO2 emissions in 2019:	5 billion tons
Reduction under CD:	1 billion tons

Social cost of carbon, MC_e :	\$50/ton
Total reduction in damages:	\$50 billion

• Net gain overall: \$50 B - \$15 B = \$35 B