



# TSC 220

ENERGY

CLASS 3

ENERGY

~~Running out~~

Environmental impact

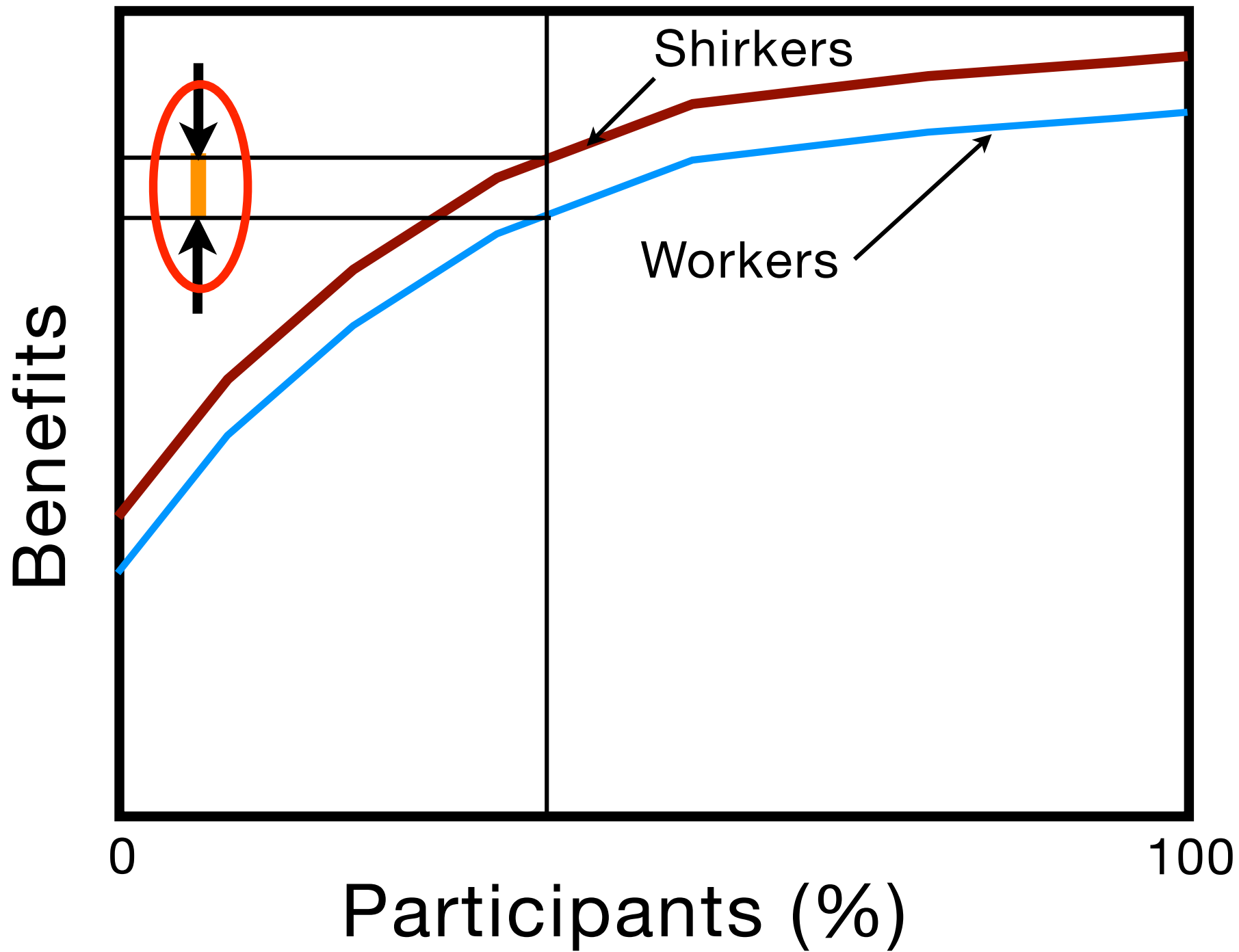
Costly

1. Increased estimates for U.S. shale gas resources drive increased U.S. production, **lower prices, and lower imports of natural gas**
2. Industrial natural gas demand recovers, reversing recent trend
3. Non-hydro renewables and natural gas are the fastest growing electricity generation sources, but **coal remains the dominant fuel** because of the large amount of existing capacity
4. **Oil imports fall** due to increased domestic production—including biofuels—and greater fuel efficiency
5. U.S. **carbon dioxide emissions rise slowly, but do not pass 2005 levels again until 2027**

Carbon storage

Trees are the answer!

‘How can educated  
people like yourselves ...’



# Carbon Credits

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CO<sub>2</sub> is prevented from entering the environment

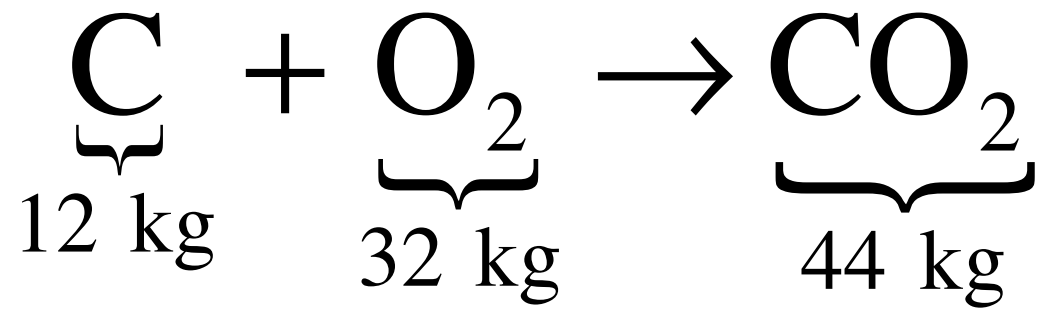
CO<sub>2</sub> is removed from the environment

Carbon Capture

Separation

Storage





12 kg carbon stored

= 44 kg CO<sub>2</sub> captured