

ANSWERS for Worksheet for Module 4: Climate Facts- Opportunities for Agriculture

1. How much do energy expenditures cost the agriculture sector in the U.S. per year?
\$10 billion per year
2. If a quarter of U.S. farmers took advantage of solar technologies in 2020, how much money in electricity costs could be saved annually?
\$80 million annually
3. Up to 6 million MWh could be generated if large livestock farms in the U.S. implemented biogas recovery systems. How many kWh is this and what is the cost of said kWh (at \$0.10/kWh)?
6,000,000,000 kWh. The cost is \$60,000,000.
4. What types of crop residues mentioned in the article will the SynGest Inc. plant use to produce anhydrous ammonia?
Corn stalks and cobs.
5. Of the total new electricity capacity added nationally in 2008 (including renewables and fossil fuels), what percent did wind power contribute?
46%
6. For every ton of fertilizer produced, about how much CO₂ is emitted?
1 ton
7. It is possible to capture CO₂ emissions. What are two ways captured CO₂ can be used?
For use in carbonated beverages and for enhanced oil recovery.