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### *Highlights for:*

Are electrofuels a sustainable transport fuel? Analysis of the effect of controls on carbon, curtailment, and cost of hydrogen.

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### **Highlights:**

- Carbon intensity of hydrogen from grid electricity is reduced with both controls
- Controls allow for preferential use of otherwise curtailed energy
- Significant synergistic reductions in the average cost of electricity are noted
- Positive effects of both controls increase with increasing share of renewables