Future of Sustainable Aviation Biofuels

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July 19, 2017
It’s More Urgent Than You Think

The Uninhabitable Earth

Famine, economic collapse, a sun that cooks us: What climate change could wreak — sooner than you think.

By David Wallace-Wells

New York Magazine, July 9, 2017
Good News: Transition to Lower Carbon Energy Underway & Unstoppable

Think Progress, April 2017
https://thinkprogress.org/clean-energy-revolution-now-81a8e61134c7
Transition Not Happening Quickly Enough and Not In All Sectors – Oil Is Key

Washington (2011)

Transport 46%

- Agriculture 6%
- Electricity 17%
- Industrial 17%
- Residential & Commercial 10%
- Waste 4%
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Aviation: the Toughest Nut?

- Commercial aviation=2% of global GHG; projected to grow to 3-4.4% by 2050 without action
- Industry goal to reduce sector’s emissions 50% by 2050
- June 2015 EPA finding under Clean Air Act

Aircraft Efficiency

- More efficient aircraft and engine design

Air Traffic Management

- Streamlined flight operations

Alternative Fuels

- Sustainable Low-Carbon Biofuels
Top Six SAFN Recommendations—Report Card

1. Create a **strategic focus** on sustainable fuels for aviation **B**
2. Promote **stable, long-term policy** to attract investment **D**
3. Ensure **support** for aviation fuels & promising feedstocks under Federal RFS **B+**
4. Provide strong **backing** for the industry **C-**
5. Target R&D on regional efforts critical to commercializing aviation fuel projects **A**
6. Incorporate sustainability **considerations** to create an advanced biofuels industry **Incomplete**
The Core Challenge: Getting to Scale

• Scale/Cost – Chicken and Egg
• Need policies and partnerships that will result in steel in ground
• Innovative financing and public/private partnerships key
Thank you!

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