Evolving market dynamics:

As the industry continues to grow, so does the demand for aviation fuel. To meet this ever-increasing demand, aviation fuel suppliers need to have a clear understanding of historic and current trends in fuel consumption to accurately forecast future needs.

Cirium’s approach:

Via an easy-to-use Global Fuel Consumption Forecast dashboard, Cirium provides the industry with the broadest and deepest aviation data analytics that enables aviation fuel providers to predict fuel consumption and demand. Build better fuel demand models with confidence using the most accurate estimated fuel burn calculations with a +/- 1% accuracy rate based on sample comparisons to proprietary airline data when applying assumed average passenger and cargo load factor.

Aviation fuel providers can now:

- Gain historical insights to help calculate and forecast fuel consumption for a more precise estimate.
- Filter consumption calculations by various aspects such as region, country, airport, aircraft type for easy access and reporting.
- Generate quick visualizations of consumption patterns and variances to easily inform management decisions or communicate with other stakeholders.
- Identify changes in consumption patterns in days versus months, enabling faster decision making and responsive adjustments to long-term demand forecasts.
The Global Fuel Consumption Forecast leverages the following Cirium’s industry-leading data sets:

- **Cirium Schedule Data**
  Gain insights to future flight activity and corresponding fuel demand.

- **Cirium Fight (Status) Data**
  Gain insights to historically flight (status) data including disruptions that may impact future fuel consumption.

- **Aircraft Utilization Data**
  Gain additional insights on unscheduled flight operations identified by satellite-based ADS-B provided by Aireon.

- **Fuel Burn and Emissions Data**
  Predict fuel burn and emissions of flights both historically and forecasted by leveraging Cirium’s machine learning and historical data.

Access 97% of the global airline schedules from over 900 airlines with more than 100,000 daily updates.

Over 600 data sources with near real-time updates.

99% coverage of the world’s major commercial aircraft; including unscheduled flights, air taxi, charter services, and cargo aircraft.

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Gain insights to historically flight (status) data including disruptions that may impact future fuel consumption.

Improved accuracy using flight time versus distance-based estimates.

Improved weight estimation based on empty weight, seats & passengers, and cargo load.

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**Better data for intelligent decisions**

- Enables easy benchmarking fuel consumption by region (PADDs in the US), country of airport, and airline to quickly opportunities for additional fuel sales.

- Project future fuel consumption to align production with demand peaks, reduce excess supply where not needed, and optimize supply logistics.

- Easily compare fuel consumption periods to identify seasonal patterns of high and low consumption.

- Visualize consumption easily to inform management and stakeholders of demand fluctuations.

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**About Cirium**

Cirium is committed to helping develop the future of aviation management. Find out more at [cirium.com/aviation-fuel-demand](http://cirium.com/aviation-fuel-demand)

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