

# Engine Fleet Planning and Costing (EFPAC)

Forecast engine, APU, and landing gear maintenance cost

## Operational impact

Reduce maintenance cost volatility, avoid unnecessary shop visits, and improve asset availability by planning engine, APU, and landing gear maintenance before events occur. Teams shift from reactive decisions to structured forecasting, keeping engines and components in service longer while protecting capital and stabilizing budgets.

## Business challenge

Maintenance cost forecasting across engines, APUs, and landing gear is often managed in spreadsheets or disconnected systems. Limited visibility into removals, shop visits, and contract exposure leads to reactive decisions, budget volatility, excess spares, and missed cost savings.

## EFPAC solution

EFPAC forecasts maintenance events and lifecycle cost for engines, APUs, and landing gear using predictive models built on real usage and contract data. It allows airlines to model maintenance, lease, and spare strategies before committing capital, with full visibility into cost and operational impact.

## Key features

- Predict engine, APU, and landing gear removals years ahead
- Model lifecycle maintenance cost across the fleet
- Run what-if scenarios for spares, leases, and contracts
- Compare PBH and Time and Materials strategies
- Integrate technical, operational, and financial data
- Generate audit-ready forecasts and financial reports

## Key benefits

- Reduce maintenance costs up to 15%
- Stabilize long-term maintenance spend
- Optimize spare asset capital across the fleet
- Prevent unexpected shop visits and cost exposure
- Make maintenance decisions with financial clarity
- Increase time in service and asset availability

## Proven operational impact

### Up to:

- 15% reduction in maintenance costs
- 10–12% reduction in spare capital requirements



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## Why EFPAC stands apart

- Forecasts engine, APU, and landing gear events years ahead
- Models contracts, leases, and spare strategies in one system
- Connects maintenance events directly to financial impact
- Provides audit-ready financial traceability and reporting
- Built on decades of Boeing expertise in engine lifecycle management

## How EFPAC delivers value

### Align planning across teams

Unify maintenance, engineering, and finance on a shared forecast.

### Forecast maintenance events in advance

Project engine, APU, and landing gear removals, shop visits, and lease returns years ahead.

### Model what-if scenarios before decisions

Model maintenance, lease, spare, and contract strategies before committing capital.

### Evaluate contract cost impact

Compare Power-by-the-Hour and Time & Materials to identify the lowest-cost approach.

### Optimize spare asset planning

Right-size spare engine, APU, and landing gear pools to reduce capital while maintaining availability.

### Connect maintenance events to cost

Translate events into clear financial impact and lifecycle cost across the fleet.

## Seamless integrations across operations

- Maintenance and engineering systems such as AMOS and TRAX
- ERP and finance platforms such as SAP
- Airline data warehouses and financial planning systems
- Internal fleet and engine planning platforms

## Is your operation ready to engage?

Talk with Boeing to evaluate how Engine Fleet Planning and Costing (EFPAC) can forecast maintenance cost before it occurs, optimize spare asset planning, and bring predictability to long-term fleet maintenance spend.



Learn more about EFPAC  
at [services.boeing.com/efpac](https://services.boeing.com/efpac)

