







Port Staff

Warren Hendrickson

Airport Senior Manager

Rudy Rudolph

Operations Director

Lisa Parks

Executive Services
Director

Sam Gibboney

Executive Director

Project Team

Leah Whitfield

Project Manager

Zach Duvall

Airport Planner

Darren Murata, P.E.

Lead Engineer, DOWL





This presentation will be recorded and posted on the Port's Airport Master Plan Update website.

We will mute all participants during the presentation.

Virtual Attendees – Please type in the chat box if you have a comment or question. Comments can also be emailed to AMPUpdate@portolympia.com.

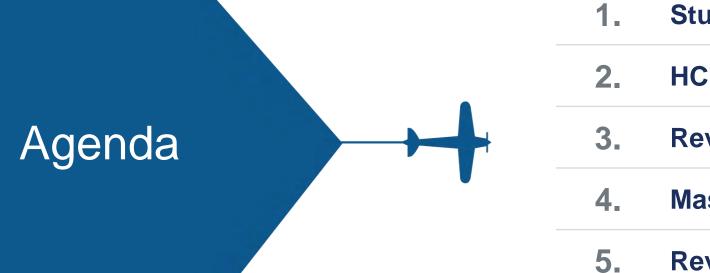
Comments from the live audience will be heard at the end during the Comments portion of the presentation. Any questions asked will be answered in a Q/A will be



IAP2 Spectrum

	INFORM	CONSULT	INVOLVE	COLLABORATE	EMPOWER
PUBLIC PARTICIPATION GOAL	To provide the public with balanced and objective information to assist them in understanding the problem, alternatives, opportunities and/or solutions.	To obtain public feedback on analysis, alternatives and/or decisions.	To work directly with the public throughout the process to ensure that public concerns and aspirations are consistently understood and considered.	To partner with the public in each aspect of the decision including the development of alternatives and the identification of the preferred solution.	To place final decision making in the hands of the public.
PROMISE TO THE PUBLIC	We will keep you informed.	We will keep you informed, listen to and acknowledge concerns and aspirations, and provide feedback on how public input influenced the decision.	We will work with you to ensure that your concerns and aspirations are directly reflected in the alternatives developed and provide feedback on how public input influenced the decision.	We will look to you for advice and innovation in formulating solutions and incorporate your advice and recommendations into the decisions to the maximum extent possible.	We will implement what you decide.





- 1. Studies Underway
- 2. HCP Update
- 3. Review of Master Plan Update Process
- 4. Master Plan Update Goals
- 5. Revised Preferred Alternative
- **6.** Emerging Technologies
- 7. Commercial Service Feasibility Study
- 8. Next Steps
- 9. Comments



Washington State Legislature Study

Commercial Aviation Coordination Commission (CACC)

The CACC is a group created by the Legislature to develop recommendations to meet Washington state critical aviation system capacity.

Any comments concerning the work of the CACC should be directed to the CACC team CACC@wsdot.wa.gov.





There are two projects that the airport is involved in.

The Bush Prairie Habitat Conservation Plan (HCP) is focused on protecting and mitigating impacts to species protected by the Endangered Species Act in and around the airport.

The **Master Plan Update** is focused on meeting the aviation demand.

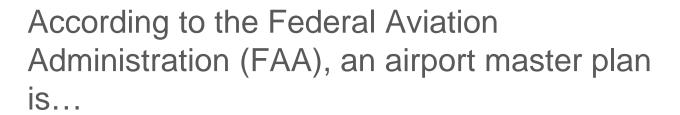




- Finalizing the conservation and development policy details
- Responding to comments from USFWS and WDFW on the overall HCP
- Revised HCP in November for review by the Port and City of Tumwater
- Draft to agencies and public following



Master Plan
Update
Process



A comprehensive study of an airport that usually describes the short-, medium-, and long-term development plans to meet future aviation demand.

Follows FAA Advisory Circular 150/5070-6B



Master Plan
Update Goals

- Meet aviation demand
- Meet FAA design standards
- Prepare Olympia Regional Airport (OLM) for future development
- Prepare OLM for emerging aviation technologies
- Continued Airport self-sufficiency



Airport Master Plan Update SCHEDULE (Draft)



- Issues
- Airport Inventory
- Aviation Forecasts
- Airport Facility Requirements



- Draft Alternatives
- Alternative Evaluation
- Environmental Review
- Recommended Alternatives



- Capital Improvement Program
- Funding
- Airport Layout Plan
- Draft/Final Report









Revised
MPU
Preferred
Alternative

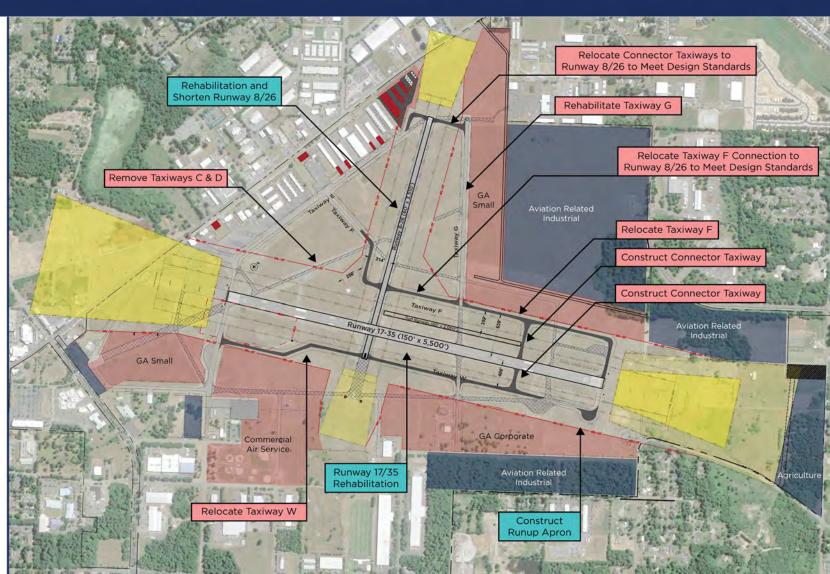




Project Phasing

Near-Term (2022-2025)

Mid-Term (2026-2029)





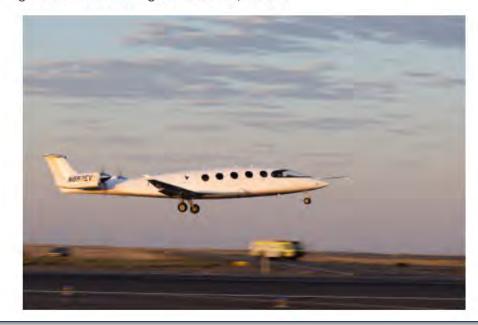
Emerging Technologies



Eviation's electric commuter plane Alice makes first test flight

29 September 2022

The first fully electric commuter plane Alice from Eviation Aircraft (earlier post) successfully completed its maiden flight at Moses Lake, Washington. Alice lifted off on 27 Sep at 7:10 a.m. from Grant County International Airport (MWH), flying for a total of eight minutes and reaching an altitude of 3,500 feet.



Source: "Eviation's electric commuter plane Alice makes first test flight" September 29, 2022



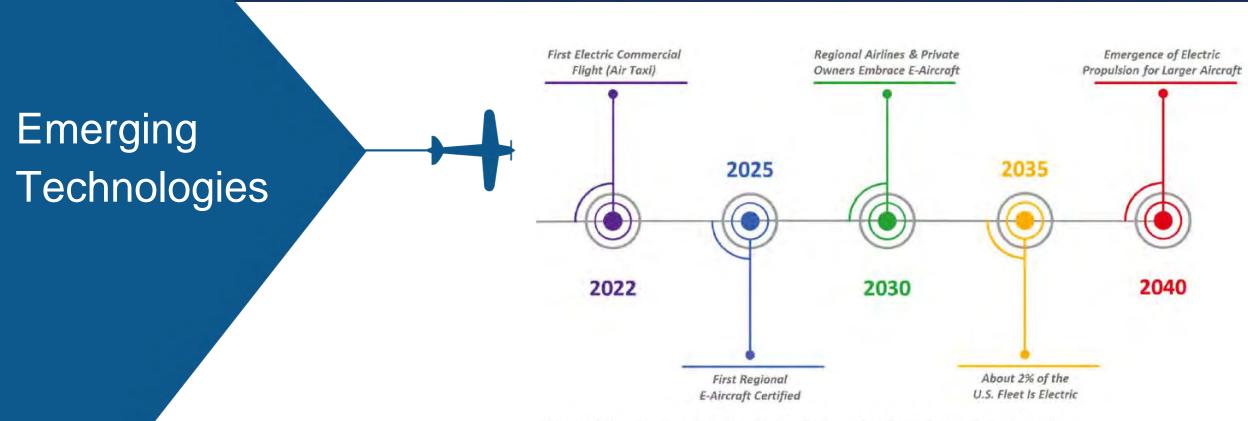


Figure 23. Potential timeline of electric aircraft implementation.

Source: ACRP Research Report 236: *Preparing Your Airport for Electric Aircraft and Hydrogen Technologies*



Sustainable Aviation Fuels (SAF)

AKA: Biofuel/Plant Based Fuels:

Created from:

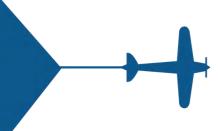
- Waste oils
- Plant and algae material
- Animal fats
- FAA approval for up to 50%
 SAF blend with Jet-A
- SAF is proven, drop-in technology

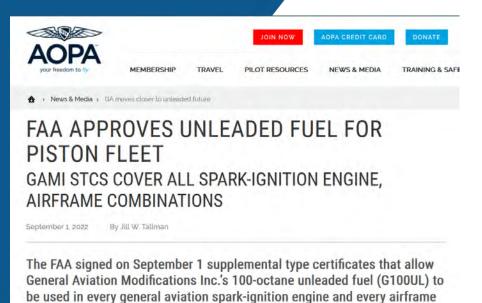


There is adequate space for fuel farm expansion when demand for biofuels occurs.



Approval of Alternative to 100LL





powered by those engines. The move was hailed by the industry as a major

step in the transition to an unleaded GA future.

- EAGLE (Eliminate Aviation Gasoline Lead Emissions) – initiative of aviation organizations with goal to meet objective by 2030
- FAA has approved replacement for 100LL subject to:
 - Regulatory requirements
 - Production and distribution
- Alternative is coming, but roll out will be slow



US FAA sets out initial standards for eVTOL vertiport designs

By David Kaminski-Morrow | 28 September 2022

US aviation regulators have unveiled design guidance for vertiports, as the aerospace industry progresses with multiple proposed eVTOL aircraft.

It focuses on safety-critical geometry, with dimensions for take-off and landing zones, as well as approach and departure paths in the surrounding airspace.

The guidance also sets out initial criteria for lighting and markings – including a recommended vertiport identification symbol – plus standards for battery and electric charging infrastructure.



eVTOL (Electric Vertical Takeoff and Landing) Vertiport

Source: https://www.flightglobal.com/safety/us-faa-sets-out-initial-standards-for-evtol-vertiport-designs/150359.article



Commercial Service Feasibility Study

- Funded by FAA.
- Not related to the CACC or WSDOT Aviation System Plan.
- <u>Preliminary</u> evaluation of OLM's compatibility to meet FAA requirements for regional commercial service.
- Focused on the <u>feasibility</u> of what the existing airfield can accommodate with regard to emerging aircraft.

A component of the MPU consisting of:

- Passenger and Operations Forecast
- Facility Requirements
- Alternatives



Commercial
Service
Feasibility
Study

Commercial Service is often referred to as Part 139 and subject to additional regulations:

- Part 139 certification must be requested by the airport sponsor and approved by the FAA.
- Applies to scheduled flights of 9+ passengers and unscheduled of 30+ passengers.
- Airports are required to meet additional standards including providing Aircraft Rescue & Firefighting (ARFF) coverage of flights.



Commercial
Service
Feasibility
Forecast

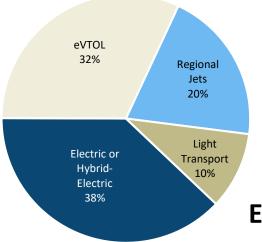
Part 139 Forecast Assumptions for OLM:

- Not forecasted to become a commercial hub
- Sustainable aviation will continue to grow
- Two primary elements: satellite service to a hub and point-to-point regional service
- Forecasts have an upper limit based on existing capacity
- Commercial activity not anticipated until



Commercial Activity	2025	2030	2035	2040
Satellite Service	0	0	70,000	159,000
Regional Service	0	0	113,000	129,000
Total	0	0	183,000	288,000
Satellite Service	0	0	1,100	2,600
Regional Service	0	0	8,900	10,200
Total	0	0	10,000	12,800

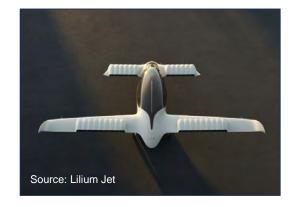


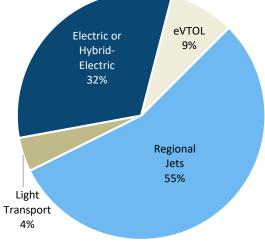


Enplanements



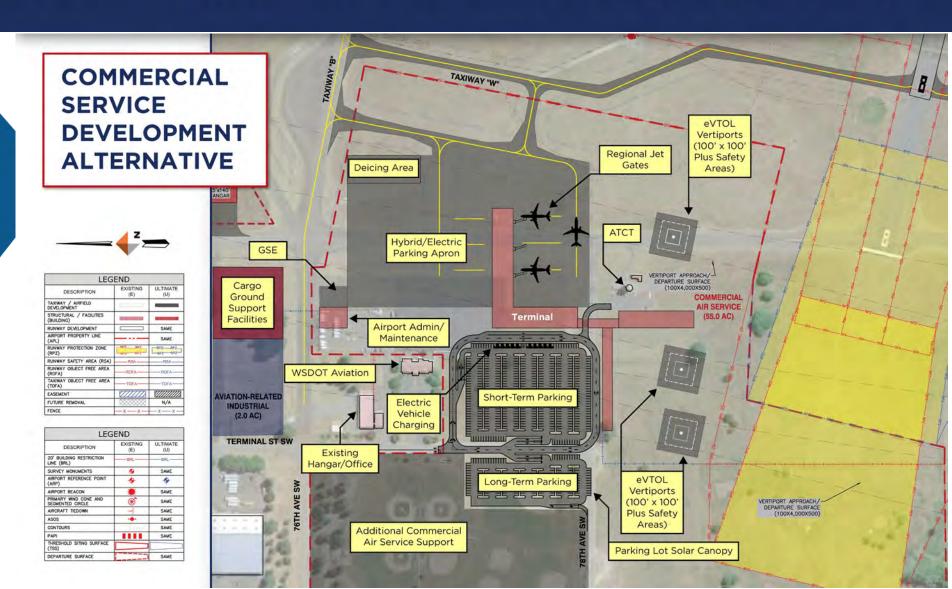








Commercial
Service
Feasibility
Alternative



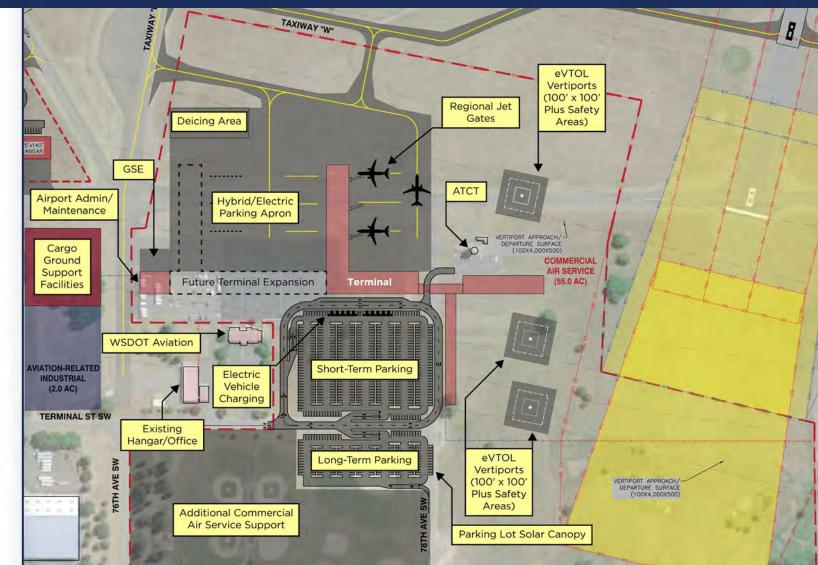


Commercial Service Feasibility Future Concept



LEG	END	
DESCRIPTION	EXISTING (E)	ULTIMATE (U)
TAXIWAY / AIRFIELD DEVELOPMENT		
STRUCTURAL / FACILITIES (BUILDING)		_
RUNWAY DEVELOPMENT		SAME
AIRPORT PROPERTY LINE (APL)		SAME
RUNWAY PROTECTION ZONE (RPZ)	RP2 RP2	RPZ 8PZ
RUNWAY SAFETY AREA (RSA)	RSA	RSA -
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	ROFA
TAXIWAY OBJECT FREE AREA (TOFA)	—TOFA—	TOFA-
EASEMENT	7/////	VIIIIIIII
FUTURE REMOVAL	200000000000000000000000000000000000000	N/A
FENCE	-x-x-	x x -

LEGEND				
DESCRIPTION	EXISTING (E)	ULTIMATE (U)		
20' BUILDING RESTRICTION LINE (BRL)	-BRL	BRL		
SURVEY MONUMENTS	•	SAME		
AIRPORT REFERENCE POINT (ARP)	•	*		
AIRPORT BEACON	-	SAME		
PRIMARY WIND CONE AND SEGMENTED CIRCLE	®	SAME		
AIRCRAFT TIEDOWN	-	SAME		
ASOS	-0-	SAME		
CONTOURS		SAME		
PAPI	1111	SAME		
THRESHOLD SITING SURFACE (TSS)				
DEPARTURE SURFACE		SAME		







- Finalize Commercial Service Feasibility Study
- Finalize Airport Layout Plan (ALP) and submit for FAA review and approval
- Publish Draft Master Plan Update Report





- Limited to 3 minutes each, up to 30 minutes
- To be included in the Master Plan Update
 Report comments should be submitted in
 writing to Project Team via comment card or
 via email at AMPUpdate@portolympia.com.
- Reminder CACC comments should be submitted to <u>CACC@wsdot.wa.gov.</u>
- Q&A document will be updated following this open house.





- AMPUpdate@portolympia.com
- Q&A document will be updated following this open house.