

#### START OF TRANSCRIPT

[00:00:27]	YOU. THIS IS COMMISSION VICE PRESIDENT
[00:00:30]	TOSHIKO HASAGAWA CONVENING THIS SPECIAL
[00:00:32]	MEETING OF JUNE 13, 2023. THE TIME IS
[00:00:37]	WE ARE MEETING IN PERSON TODAY AT THE
[00:00:39]	PORT OF SEATTLE HEADQUARTERS BUILDING IN
[00:00:41]	THE COMMISSION CHAMBERS. THE PURPOSE OF
	THE MEETING IS TO HOLD A STUDY SESSION
	REGARDING AVIATION ENVIRONMENTAL ISSUES.
	PRESENT WITH ME TODAY ARE COMMISSIONERS
	CALKINS FELLEMAN AND ONLINE FOR THE
	FIRST 30 MINUTES. IT'S COMMISSIONER
	MOHAMED, SHE'LL BE JOINING US IN PERSON
	IN A LITTLE BIT. COMMISSIONER CHO IS
	ABSENT AND EXCUSED FROM THE MEETING.
	THIS SESSION IS BEING RECORDED AND
	BROADCASTED BY SEATTLE COLLEGE'S CABLE
	TELEVISION AND IS AVAILABLE ON THE
	PORT'S WEBSITE. THE STUDY SESSION IS
	OPEN TO THE PUBLIC. HOWEVER, AS IT IS A
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	WORKING SESSION FOR THE COMMISSIONER,
	THERE'S NO PUBLIC COMMENT OR ACTION
	TODAY. THE NEXT PUBLIC COMMENT PERIOD
	WILL OCCUR AT OUR REGULAR BUSINESS
	MEETING LATER THIS AFTERNOON AT 12:00
	P.M SO AT THIS TIME, I'M GOING TO HAND
	IT OVER TO EXECUTIVE DIRECTOR STEVE
	METRUCK TO OPEN THE SESSION. AND THE
	MEETING IS EXPECTED TO LAST ABOUT 2
	HOURS, SO WE'LL BE MINDFUL OF PROVIDING
	TIME TO GET THROUGH THE FULL
	PRESENTATION TO YOU, STEVE. THANK YOU.
	THANK YOU, COMMISSIONER. COMMISSIONER,
	GOOD MORNING, AND THANK YOU FOR
	CONVENING TODAY'S AVIATION ENVIRONMENTAL
	STUDY SESSION. AS YOU KNOW, IN ALIGNMENT
	WITH OUR SUSTAINABILITY OBJECTIVES, THE
	PORT HAS SET AMBITIOUS GOALS FOR
	ENCOURAGING AIRCRAFT EMISSION REDUCTIONS
[00:01:50]	BY OUR PARTNERS, INCLUDING SUPPORTING
	VOLUNTARY MEASURES BY AIRLINES, AS WELL
[00:01:52]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE
[00:01:52] [00:01:54]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND
[00:01:52] [00:01:54] [00:01:56]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE
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[00:01:52] [00:01:54] [00:01:56] [00:01:58] [00:02:02] [00:02:05] [00:02:07] [00:02:09] [00:02:11] [00:02:13] [00:02:18]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE AVIATION FUELS. FULL UTILIZATION OF SAF BY AIRLINES IS A GLOBAL OPPORTUNITY THAT POLICYMAKERS AND INDUSTRY LEADERS ARE LEANING INTO MORE AND MORE THAN EVER. BUT THERE ARE STILL SIGNIFICANT CHALLENGES TO ACHIEVING THIS GOAL, FROM FEEDSTOCK AVAILABILITY TO REFINING CAPACITY TO COSTS. HOWEVER, WE REMAIN
[00:01:52] [00:01:54] [00:01:56] [00:01:58] [00:02:02] [00:02:05] [00:02:07] [00:02:09] [00:02:11] [00:02:13] [00:02:18] [00:02:20]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE AVIATION FUELS. FULL UTILIZATION OF SAF BY AIRLINES IS A GLOBAL OPPORTUNITY THAT POLICYMAKERS AND INDUSTRY LEADERS ARE LEANING INTO MORE AND MORE THAN EVER. BUT THERE ARE STILL SIGNIFICANT CHALLENGES TO ACHIEVING THIS GOAL, FROM FEEDSTOCK AVAILABILITY TO REFINING CAPACITY TO COSTS. HOWEVER, WE REMAIN COMMITTED, AND I'M PROUD OF THE WORK
[00:01:52] [00:01:54] [00:01:56] [00:01:58] [00:02:02] [00:02:05] [00:02:07] [00:02:09] [00:02:11] [00:02:13] [00:02:15] [00:02:20] [00:02:21]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE AVIATION FUELS. FULL UTILIZATION OF SAF BY AIRLINES IS A GLOBAL OPPORTUNITY THAT POLICYMAKERS AND INDUSTRY LEADERS ARE LEANING INTO MORE AND MORE THAN EVER. BUT THERE ARE STILL SIGNIFICANT CHALLENGES TO ACHIEVING THIS GOAL, FROM FEEDSTOCK AVAILABILITY TO REFINING CAPACITY TO COSTS. HOWEVER, WE REMAIN COMMITTED, AND I'M PROUD OF THE WORK THAT YOU, COMMISSIONER, PORT STAFF AND
[00:01:52] [00:01:54] [00:01:56] [00:01:58] [00:02:02] [00:02:05] [00:02:07] [00:02:09] [00:02:11] [00:02:13] [00:02:18] [00:02:20] [00:02:21] [00:02:23]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE AVIATION FUELS. FULL UTILIZATION OF SAF BY AIRLINES IS A GLOBAL OPPORTUNITY THAT POLICYMAKERS AND INDUSTRY LEADERS ARE LEANING INTO MORE AND MORE THAN EVER. BUT THERE ARE STILL SIGNIFICANT CHALLENGES TO ACHIEVING THIS GOAL, FROM FEEDSTOCK AVAILABILITY TO REFINING CAPACITY TO COSTS. HOWEVER, WE REMAIN COMMITTED, AND I'M PROUD OF THE WORK THAT YOU, COMMISSIONER, PORT STAFF AND OUR PARTNERS HAVE PLAYED OVER THE LAST
[00:01:52] [00:01:54] [00:01:56] [00:01:58] [00:02:02] [00:02:05] [00:02:07] [00:02:09] [00:02:11] [00:02:13] [00:02:15] [00:02:20] [00:02:21] [00:02:23] [00:02:23]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE AVIATION FUELS. FULL UTILIZATION OF SAF BY AIRLINES IS A GLOBAL OPPORTUNITY THAT POLICYMAKERS AND INDUSTRY LEADERS ARE LEANING INTO MORE AND MORE THAN EVER. BUT THERE ARE STILL SIGNIFICANT CHALLENGES TO ACHIEVING THIS GOAL, FROM FEEDSTOCK AVAILABILITY TO REFINING CAPACITY TO COSTS. HOWEVER, WE REMAIN COMMITTED, AND I'M PROUD OF THE WORK THAT YOU, COMMISSIONER, PORT STAFF AND OUR PARTNERS HAVE PLAYED OVER THE LAST YEARS TO SUPPORT THIS IMPORTANT TRANSITION, AND I REMAIN OPTIMISTIC. WE
[00:01:52] [00:01:54] [00:01:56] [00:01:58] [00:02:02] [00:02:05] [00:02:07] [00:02:09] [00:02:11] [00:02:13] [00:02:15] [00:02:20] [00:02:21] [00:02:23] [00:02:25] [00:02:28]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE AVIATION FUELS. FULL UTILIZATION OF SAF BY AIRLINES IS A GLOBAL OPPORTUNITY THAT POLICYMAKERS AND INDUSTRY LEADERS ARE LEANING INTO MORE AND MORE THAN EVER. BUT THERE ARE STILL SIGNIFICANT CHALLENGES TO ACHIEVING THIS GOAL, FROM FEEDSTOCK AVAILABILITY TO REFINING CAPACITY TO COSTS. HOWEVER, WE REMAIN COMMITTED, AND I'M PROUD OF THE WORK THAT YOU, COMMISSIONER, PORT STAFF AND OUR PARTNERS HAVE PLAYED OVER THE LAST YEARS TO SUPPORT THIS IMPORTANT
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[00:01:52] [00:01:54] [00:01:56] [00:01:58] [00:02:02] [00:02:05] [00:02:07] [00:02:09] [00:02:11] [00:02:13] [00:02:15] [00:02:20] [00:02:21] [00:02:23] [00:02:25] [00:02:28] [00:02:29] [00:02:31]	VOLUNTARY MEASURES BY AIRLINES, AS WELL AS ADVOCATING FOR POLICIES AT THE STATE AND FEDERAL LEVEL THAT INCENTIVIZE AND SUBSIDIZE THE TRANSITION TO SUSTAINABLE AVIATION FUELS. FULL UTILIZATION OF SAF BY AIRLINES IS A GLOBAL OPPORTUNITY THAT POLICYMAKERS AND INDUSTRY LEADERS ARE LEANING INTO MORE AND MORE THAN EVER. BUT THERE ARE STILL SIGNIFICANT CHALLENGES TO ACHIEVING THIS GOAL, FROM FEEDSTOCK AVAILABILITY TO REFINING CAPACITY TO COSTS. HOWEVER, WE REMAIN COMMITTED, AND I'M PROUD OF THE WORK THAT YOU, COMMISSIONER, PORT STAFF AND OUR PARTNERS HAVE PLAYED OVER THE LAST YEARS TO SUPPORT THIS IMPORTANT TRANSITION, AND I REMAIN OPTIMISTIC. WE HAVE ALSO BEGUN TO SEE EXCITING



100:02:371 AND ADVOCACY THAT THE PORT HAS ENGAGED [00:02:40] IN ON THIS TOPIC, AS WELL AS OUR [00:02:41] THOUGHTS ON NEXT STEPS FOR OUR [00:02:43] CONTINUING EFFORTS. AND I LOOK FORWARD [00:02:45] TO HEARING YOUR FEEDBACK, YOUR QUESTIONS [00:02:47] AND YOUR SUGGESTIONS. SO WITH THAT, I'M [00:02:49] GOING TO HAND IT OVER TO SANDRA KILROY, [00:02:51] OUR SENIOR DIRECTOR OF ENGINEERING OR [00:02:54] NOT ENVIRONMENT AND SUSTAINABILITY. 100:02:561 GREAT, THANK YOU, THANK YOU, EXECUTIVE [00:02:58] DIRECTOR METRUCK. AND GOOD MORNING, [00:03:00] COMMISSIONERS. THE PORT HAS SET CLEAR [00:03:03] GOALS FOR REDUCING OUR GREENHOUSE GAS [00:03:05] EMISSIONS, AND THESE GOALS ARE BOTH FOR [00:03:08] OURSELVES AND FOR OUR BUSINESS PARTNERS. [00:03:11] THESE GOALS DRIVE OUR ACTIONS TO ENGAGE [00:03:14] IN AND SOLVE THE VERY COMPLEX PROBLEM OF [00:03:17] HOW TO DECARBONIZE OUR AVIATION [00:03:20] INDUSTRY. TODAY WE WILL FOCUS IN ON THE [00:03:23] ROLE OF SUSTAINABLE AVIATION FUEL AND [00:03:25] YOU'LL HEAR US REFER TO THAT AS SAF. [00:03:28] THROUGHOUT TODAY'S PRESENTATION, THE [00:03:31] PORT TEAM AND OUR GUEST SPEAKERS WILL [00:03:33] DISCUSS OUR PAST, OUR CURRENT AND OUR [00:03:35] FUTURE EFFORTS TO SUPPORT THE PRODUCTION [00:03:37] AND USE OF SAF. BRINGING SAF [00:03:41] TO SCALE FOR USE HERE AND GLOBALLY IS NO 100:03:441 EASY TASK, BUT THE PORT HAS LEANED IN TO [00:03:47] LEND OUR LEADERSHIP, OUR EXPERTISE, OUR [00:03:50] PASSION, DETERMINATION AND OUR VOICE TO [00:03:52] SUPPORTING AN INDUSTRY TRANSFORMATION. [00:03:56] I WANT TO THANK MANAGING DIRECTOR LANCE [00:03:58] LITTLE AND THE AVIATION DIRECTORS FOR 100:04:001 THEIR CONTINUED SUPPORT OF OUR [00:04:02] COLLECTIVE WORK ON THIS ISSUE. AND THANK [00:04:05] THE COMMISSION AND EXECUTIVE DIRECTOR [00:04:07] METRUCK FOR YOUR STRONG LEADERSHIP. [00:04:10] BEING THE GREENEST PORT IN NORTH AMERICA [00:04:12] TAKES COLLECTIVE VISION AND ACTION AND [00:04:15] WE ARE AT A UNIQUE TIME TO MAKE A [00:04:17] DIFFERENCE AND TO DRIVE CHANGE, [00:04:18] ESPECIALLY IN THIS AREA OF SUSTAINABLE [00:04:21] AVIATION FUEL. I WANT TO THANK THE STAFF [00:04:24] FOR THEIR TIME TO PREPARE FOR TODAY'S [00:04:25] SESSION. MY HOPE IS THAT YOU WILL LEAVE [00:04:30] TODAY WITH A GREATER AWARENESS OF WHERE [00:04:32] WE'RE AT WITH SUSTAINABLE AVIATION FUEL [00:04:34] AND A CLEAR UNDERSTANDING OF OUR PORT [00:04:36] STRATEGY. WE LOOK FORWARD TO HEARING [00:04:38] YOUR QUESTIONS, YOUR INSIGHTS, YOUR [00:04:41] FEEDBACK TO FURTHER INFORM AND REFINE [00:04:43] THIS STRATEGY MOVING FORWARD. WE DO HAVE [00:04:47] A LOT OF INFORMATION FOR YOU TODAY. I [00:04:50] THINK YOU'LL FIND IT HOPEFULLY [00:04:52] FASCINATING. I AM GOING TO ASK, IF [00:04:55] POSSIBLE, THAT YOU HOLD QUESTIONS ON A [00:04:58] SLIDE BY SLIDE BASIS. WE HAVE BUILT IN [00:05:02] LOTS OF INTENTIONAL BREAKS FOR Q AND A [00:05:06] AFTER A SETS OF SLIDES. CLEARLY, IF YOU [00:05:10] HAVE A CLARIFYING QUESTION ON A SLIDE, [00:05:14] PLEASE DO. BUT WE'D LIKE TO GET THROUGH [00:05:17] POCKETS OF INFORMATION BEFORE OPENING IT [00:05:20] UP TO Q AND A. THAT WOULD BE OUR



100:05:221 REQUEST, SO THANK YOU FOR YOUR [00:05:26] TIME TODAY. I'D LIKE TO NOW PASS IT TO [00:05:28] SARAH COX WHO IS OUR DIRECTOR OF [00:05:30] AVIATION, ENVIRONMENT AND [00:05:31] SUSTAINABILITY, AND SHE WILL KICK OFF [00:05:33] THE PRESENTATION. GREAT, [00:05:37] THANK YOU. GOOD MORNING, COMMISSIONERS [00:05:38] AND EXECUTIVE DIRECTOR METRUCK. AS SANDY [00:05:41] NOTED, I'M SARAH COX, THE DIRECTOR OF 100:05:431 ENVIRONMENT AND SUSTAINABILITY AT THE [00:05:44] AIRPORT. NEXT SLIDE PLEASE. [00:05:51] AND THANK YOU FOR THE OPPORTUNITY FOR [00:05:53] BOTH THE PORT TEAM AND OUR EXTERNAL [00:05:56] TECHNICAL EXPERTS TO PRESENT TO YOU. [00:05:58] TODAY. WE'LL BE PROVIDING A LEVEL SET ON [00:06:01] SUSTAINABLE AVIATION FUEL INDUSTRIES, [00:06:04] CURRENT PRODUCTION LEVELS, THE FORECAST [00:06:06] AND HOW MUCH GROWTH IS NEEDED TO REACH [00:06:08] OUR CARBON REDUCTION GOALS. THEN WE WILL [00:06:11] DISCUSS SUPPORT'S, ROLE AND STRATEGY IN [00:06:13] BRINGING STAFF TO SEATAC AIRPORT. AND [00:06:16] LASTLY, THERE WILL BE A FOCUS ON CURRENT [00:06:20] AND FUTURE STATE AND FEDERAL POLICY [00:06:23] AREAS AND THE ROLE US. COMMISSIONERS CAN [00:06:26] CONTINUE TO CONTRIBUTE IN POLICY CHANGE [00:06:28] THAT PROMOTES SAF MANUFACTURING AND [00:06:30] DISTRIBUTION. NEXT SLIDE, PLEASE. [00:06:36] SO FOR TODAY, WE WILL BE PROVIDING AN [00:06:39] OVERVIEW OF THE PORT'S GOALS, [00:06:43] THE CARBON EMISSIONS AND THE ROLE OF [00:06:45] STAFF. WE'LL THEN PROVIDE A STAFF [00:06:48] REFRESHER ON FEEDSTOCK AND PRODUCTIONS [00:06:50] BECAUSE THERE'S BEEN A LOT OF INNOVATION 100:06:531 AND MOVEMENT IN THIS AREA. A REVIEW OF [00:06:56] THE PORT'S ROLE AND OUR STAFF STRATEGIC [00:06:58] PLAN, THE STATE AND FEDERAL POLICY [00:07:01] UPDATE, AS WELL AS NEXT STEPS AND [00:07:03] DISCUSSION. AND AS SANDY NOTED, WE WILL [00:07:06] HAVE BREAKS FOR QUESTIONS THROUGHOUT THE [00:07:07] PRESENTATION. NEXT SLIDE, PLEASE. [00:07:20] LET'S SEE, DO WE GO ONE TOO MANY? THERE [00:07:23] WE GO. THANK YOU. AND AS YOU'RE AWARE, 100:07:261 OUR MISSION AND CENTER AGENDA GOALS [00:07:28] INCLUDE SUPPORTING ECONOMIC DEVELOPMENT [00:07:30] IN AN ENVIRONMENTALLY RESPONSIBLE [00:07:32] MANNER. AS YOU WILL SEE FURTHER INTO THE [00:07:34] PRESENTATION, OUR SAF STRATEGY PLAN [00:07:36] INTEGRATES BOTH OF THESE GOALS INTO OUR [00:07:38] OPERATIONS. NEXT SLIDE, PLEASE. [00:07:43] THE CENTURY AGENDA GOAL FOUR, TO BE THE [00:07:45] GREENEST PORT IN NORTH AMERICA, [00:07:46] INCLUDES AN OBJECTIVE TO REDUCE SCOPE [00:07:48] THREE EMISSIONS BY 50% IN 2030 AND [00:07:51] CARBON NEUTRAL BY 2050. AND IN 2017, [00:07:55] THE COMMISSION APPROVED A SAF MOTION [00:07:57] SPECIFYING THE SAF TARGETS TO HELP [00:07:59] ACHIEVE OUR SCOPE THREE GOALS. AND I [00:08:02] WILL NOW INTRODUCE STEPHANIE MINE, OUR [00:08:04] CLIMATE PROGRAM MANAGER, WHO WILL [00:08:06] PROVIDE MORE SPECIFICS ON SAF USAGE, [00:08:09] EMISSIONS AT SEA, AND OUR STRATEGIC PLAN [00:08:12] TO BRING SAF TO SEA. THANK YOU. [00:08:15] THANK YOU, SARAH. NEXT SLIDE.



100:08:191 SO. TO REALLY PUT ALL OF THE GOALS THAT [00:08:21] SARAH JUST DESCRIBED THAT WE HAVE FOR [00:08:23] BOTH SUSTAINABLE AVIATION FUEL AND OUR [00:08:26] SCOPE THREE EMISSIONS IN PERSPECTIVE, I [00:08:29] WANTED TO PROVIDE THIS OVERVIEW OF THE [00:08:32] SCOPE THREE EMISSIONS AT SEATTLE [00:08:35] AIRPORT. JUST TO BE CLEAR, SCOPE THREE [00:08:37] EMISSIONS ARE THOSE EMISSIONS THAT WE [00:08:39] HAVE NO OWNERSHIP OR CONTROL OVER, BUT 100:08:421 OCCUR ON OUR PROPERTIES, AND SO FOR THE [00:08:46] EMISSION INVENTORY THAT YOU SEE HERE, [00:08:48] THESE INCLUDE SOURCES LIKE GROUND [00:08:51] TRANSPORTATION EMISSIONS, THOSE VEHICLES [00:08:54] COMING TO AND FROM THE AIRPORT TO USE [00:08:55] OUR FACILITY, AND THEN ALSO ANY AIRCRAFT [00:08:58] RELATED EMISSIONS. AND THESE ARE JUST [00:09:00] THOSE EMISSIONS THAT OCCUR IN THE [00:09:01] LANDING, TAKEOFF AND GROUND BASED CYCLE. [00:09:04] BUT WHAT YOU CAN SEE HERE IS WHEN YOU [00:09:06] STACK THOSE TOGETHER, THEY ARE [00:09:10] VERY MUCH DEPENDENT ON AIRCRAFT [00:09:13] OPERATIONS, WHICH IS THE ORANGE LINE AT [00:09:14] THE TOP THAT, AS YOU SEE AIRCRAFT [00:09:16] OPERATIONS RISE, SO TOO DO THE SCOPE [00:09:19] THREE EMISSIONS. AND IN ORDER TO MEET [00:09:22] THAT 50% BY 2030 GOAL THAT WE HAVE, [00:09:26] WHICH IS THE RED LINE, YOU CAN SEE THAT [00:09:28] WE NEED SIGNIFICANT REDUCTION IN [00:09:30] AIRCRAFT EMISSIONS IN ORDER TO MEET [00:09:32] THOSE GOALS. NEXT SLIDE. [00:09:36] ANOTHER WAY TO PUT THAT IN PERSPECTIVE [00:09:37] IS TO LOOK AT ALL OF THE JET A THAT IS [00:09:40] DISPENSED BY THE AIRLINES AT OUR 100:09:411 AIRPORT. AND YOU CAN SEE THAT VERY SAME [00:09:44] TREND HERE. I'VE ACTUALLY INCLUDED THE [00:09:47] SORT OF COVID ERA AND THE PORT COVID [00:09:49] RECOVERY IN IN THIS THIS [00:09:53] ILLUSTRATION. AND WHAT YOU CAN SEE IS [00:09:55] THIS IS IN HUNDREDS OF MILLIONS OF [00:09:56] GALLONS. SO AT THE PEAK IN 2019, [00:10:00] WE USED ALMOST CLOSE TO 700 MILLION [00:10:02] GALLONS AT THIS AIRPORT. [00:10:06] MAKE SURE EVERYONE'S MUTED ONLINE. AND [00:10:08] THEN, AS YOU CAN SEE, THE RECOVERY IS [00:10:11] HAPPENING PRETTY QUICKLY. AND IN FACT, [00:10:13] MEMORIAL DAY WEEKEND, I DON'T KNOW IF [00:10:15] YOU HEARD THE NEWS, BUT PASSENGER LEVELS [00:10:17] WERE REACHING PRE COVID NUMBERS. SO WE [00:10:19] REALLY DO SEE THAT THE AMOUNT OF JET A [00:10:22] THAT AIRLINES ARE USING AT OUR AIRPORT [00:10:23] IS SHOWING AN INCREASE AND THAT [00:10:27] BASICALLY THAT TREND IS COMING BACK ON [00:10:30] TRACK. NEXT SLIDE. [00:10:35] SO WHAT DOES THIS MEAN FOR HOW [00:10:39] THE INDUSTRY IS TACKLING THOSE EMISSIONS [00:10:40] AND WHAT STRATEGIES DO WE NEED TO REDUCE [00:10:44] THE EMISSIONS AND MEET THE GOALS? THIS [00:10:47] LOOKS KIND OF COMPLICATED AND MESSY, [00:10:50] BUT I'LL JUST SORT OF DESCRIBE THE MAJOR [00:10:51] CATEGORIES OF THIS GRAPH. THIS IS THE [00:10:55] ILLUSTRATION OF WHAT WE CALL A WEDGE [00:10:57] DIAGRAM THAT WAS PRODUCED BY THE FAA TO [00:11:01] SHOW HOW THE BIDEN ADMINISTRATION WOULD



[00:11:03] REACH ITS NET ZERO BY 2050 GOALS. [00:11:06] AND WHAT YOU SEE IS THAT THERE WAS THAT [00:11:09] SORT OF DIP FROM THE COVID [00:11:13] ERA. BUT YOU CAN SEE THAT THE [00:11:14] PROJECTIONS FOR THE INCREASE IN [00:11:16] EMISSIONS IS CLIMBING ON UP. AND THE [00:11:20] DIFFERENT COLORS REPRESENT THE DIFFERENT [00:11:21] TYPES OF STRATEGIES THAT WOULD BE [00:11:23] REQUIRED TO MEET THOSE EMISSION 100:11:251 REDUCTIONS, AND YOU CAN SEE THE SORT OF [00:11:27] RED COLORED ONES RELY ON EFFICIENCY OF [00:11:30] THE AIRCRAFT ITSELF, RENEWING THE FLEET [00:11:33] AND CHANGING OUT THE ENGINES. AND THEN [00:11:36] YOU SEE A SMALL WEDGE IN BLUE OF REALLY [00:11:38] SORT OF THE NEW TECHNOLOGIES THAT MIGHT [00:11:40] BE OUT THERE, SUCH AS ELECTRIC OR [00:11:41] HYDROGEN THAT CAN REPLACE MAYBE SOME OF [00:11:44] THE SHORT RANGE FLIGHTS LONGER INTO THE [00:11:46] FUTURE. BUT WHAT YOU SEE DOMINATED BY [00:11:49] GREEN IS REALLY STRATEGIES THAT RELATE [00:11:51] TO SUSTAINABLE AVIATION FUEL. WE ARE [00:11:54] STILL RELIANT VERY MUCH ON LIQUID [00:11:57] ENERGY, DENSE HYDROCARBON FUELS BECAUSE [00:12:00] OF THE LEGACY FLEETS AND THE DISTANCES [00:12:03] THAT WE'RE TRAVELING. SO THE ONLY [00:12:05] STRATEGY THAT WE KNOW WE CAN RELY ON TO [00:12:09] MEET THOSE GOALS IS SUSTAINABLE AVIATION [00:12:12] FUEL. SO TODAY WHAT WE REALLY HOPE TO DO [00:12:15] IS HAVING SET THIS [00:12:19] OUTLOOK, WE HAVE A GREAT NEED FOR SAF [00:12:23] AND WE NEED A LOT OF IT AND WE NEED IT [00:12:25] SOON. SO TODAY'S FOCUS IS REALLY TO [00:12:28] EXPLORE THAT TOPIC AND TO TALK ABOUT HOW [00:12:31] MUCH WE HAVE AND HOW MUCH WE NEED MOVING [00:12:33] INTO THE FUTURE. SO WHAT [00:12:38] WE'D LIKE TO DO NEXT IS REALLY WE KNOW [00:12:40] THAT NOT ALL OF THE COMMISSIONER MEMBERS [00:12:42] HAD THE BENEFIT OF PREVIOUS SAF STUDY [00:12:45] SESSIONS. SO WE WANTED TO DO A BIT OF [00:12:47] LEVEL SETTING ON WHAT SAF IS, WHAT IT'S [00:12:49] MADE FROM, WHAT ITS BENEFITS ARE FOR [00:12:52] EVERYONE'S BENEFIT, AND TO HAVE SOME [00:12:54] LEVEL SETTING. AND SO TO DO THAT, WE'VE [00:12:57] INVITED KATHY. THEY'RE THE COMMERCIAL [00:12:59] AVIATION ALTERNATIVE FUELS INITIATIVE. [00:13:01] THEY'RE A MEMBERSHIP BASED ORGANIZATION [00:13:03] THAT INCLUDES AIRLINES, SAF PRODUCERS [00:13:05] AND OTHER PARTNERS. AND WE'VE INVITED [00:13:07] THEM TO PROVIDE THAT OVERVIEW. AND CHRIS [00:13:09] TINDALL IS THE ASSISTANT DIRECTOR AND [00:13:12] BUSINESS TEAM LEAD OF CAFFEINE. THAT'S [00:13:14] THEIR ACRONYM. AND WAS PREVIOUSLY THE [00:13:17] DIRECTOR FOR OPERATIONAL ENERGY [00:13:19] UNDERNEATH THE DEPUTY ASSISTANT [00:13:21] SECRETARY OF NAVY FOR ENERGY. SO I'D [00:13:23] LIKE TO NOW INVITE CHRIS. [00:13:27] THANK YOU VERY MUCH, STEPHANIE. I REALLY [00:13:29] DO APPRECIATE BEING A PART OF THIS. [00:13:33] AND TO THE COMMISSIONER, [00:13:36] TO EXECUTIVE DIRECTOR METRUCK AND [00:13:39] DIRECTOR KILROY AND DIRECTOR COX, THANK [00:13:42] YOU VERY MUCH FOR ALLOWING ME TO BE HERE [00:13:44] AND TO BE A PART OF THIS OVERALL



100:13:471 DISCUSSION, NEXT SLIDE, PLEASE,

[00:13:49] MICHELLE. [00:13:53] SO, JUST WANTED TO HIGHLIGHT THIS [00:13:56] PICTURE ITSELF. [00:13:59] GO BACK ONE, PLEASE. [00:14:02] JUST WANTED TO POINT OUT THAT THIS IS A [00:14:04] PICTURE TAKEN IN MARCH OF 2016, UNITED [00:14:08] AIRLINES STARTED THE CONTINUOUS [00:14:11] OPERATION OR CONSUMPTION OF SUSTAINABLE [00:14:15] AVIATION FUEL AT LOS ANGELES AIRPORT. [00:14:18] AND THAT'S BEEN GOING ON EVER SINCE. [00:14:21] EACH AIRPORT, AS YOU KNOW, DOES NOT HAVE [00:14:24] A UNITED TANK AND AN AMERICAN AIRLINES [00:14:26] TANK, DELTA TANK. THEY ARE ALL SORT [00:14:30] OF PUT IN THERE TOGETHER. AND SO EACH [00:14:32] INDIVIDUAL AIRLINE, WHEN THEY'RE [00:14:35] REFUELING AT LAX, WILL GET SOME [00:14:37] MOLECULES OF SUSTAINABLE AVIATION FUEL, [00:14:40] EVEN THOUGH UNITED IS THE ONLY ONE WHO [00:14:42] CAN REALLY CLAIM IT BECAUSE THEY'RE THE [00:14:44] ONES WHO ACTUALLY PAID FOR IT. NEXT [00:14:46] SLIDE, PLEASE. [00:14:52] SO I WANT TO GIVE YOU A LITTLE BIT OF AN [00:14:53] UPDATE ON CAFFEINE. [00:14:57] AS STEPHANIE POINTED OUT, WE ARE THE [00:14:59] COMMERCIAL AVIATION ALTERNATIVE FUELS [00:15:01] INITIATIVE. WE'RE A PUBLIC PRIVATE [00:15:03] PARTNERSHIP AND WE HAVE FOUR MAJOR [00:15:06] SPONSORS THAT ARE THERE. THE AEROSPACE [00:15:09] INDUSTRIES ASSOCIATION, FEDERAL AVIATION [00:15:12] ADMINISTRATION, THE AIRPORTS COUNCIL, [00:15:14] INTERNATIONAL, AND THE AIRLINES FOR [00:15:17] AMERICA. SO WE ARE THERE TO HELP SERVE [00:15:21] THE WHOLE AVIATION INDUSTRY, AND EVEN [00:15:25] THOUGH COMMERCIAL AVIATION IS IN OUR [00:15:27] NAME, WE ARE ALSO HELPING OUT WITH [00:15:30] BUSINESS AVIATION ALSO. SO WE ARE [00:15:33] THERE, WE HAVE ABOUT 1800 [00:15:37] PLUS OR MINUS MEMBERS IN OUR MEMBERSHIP [00:15:41] AND THEY RANGE ALL THE WAY FROM [00:15:43] FEEDSTOCK PROVIDERS ALL THE WAY TO THE [00:15:46] AIRLINES AND EVERY [00:15:49] ENTITY IN BETWEEN THAT. SO WE'RE TRYING [00:15:52] TO HELP THE OVERALL [00:15:56] AVIATION INDUSTRY FOR THE DEVELOPMENT [00:15:59] AND DEPLOYMENT OF SUSTAINABLE AVIATION [00:16:01] FUEL ACROSS THE BOARD. NEXT SLIDE, [00:16:04] PLEASE. [00:16:11] SO JUST TO GIVE YOU A LITTLE BIT OF, [00:16:15] I GUESS, A DEFINITION DESCRIBED FOR [00:16:18] SUSTAINABLE AVIATION FUEL, SOMETIMES [00:16:21] WE'LL REFER TO IT AS BIOJET AVIATION [00:16:23] BIOFUEL OR ALTERNATIVE AVIATION FUEL. [00:16:27] AND THERE'S A FEW OTHERS THAT MAY BE OUT [00:16:29] THERE, BUT WE'LL MAINLY BE TALKING ABOUT [00:16:31] SAF. BUT ALL OF THOSE ARE INCLUSIVE [00:16:34] THERE. SO WITH THIS PARTICULAR SAF, [00:16:38] ALL THE SAME PROPERTIES, THE CHEMICAL [00:16:40] PROPERTIES OF SUSTAINABLE AVIATION FUEL [00:16:44] IS THE SAME AS JET A. THERE'S NO CHANGES [00:16:47] NEEDED FOR ANY INFRASTRUCTURE THAT CAN [00:16:51] GO INTO THE SAME FUEL TANK ALONG [00:16:55] WITH FOSSIL FUEL. AND THAT IS NOT A



100:16:581 PROBLEM AT ALL. THE SUSTAINABLE PART IS [00:17:01] THAT INSTEAD OF THE FEEDSTOCKS COMING [00:17:04] FROM A HOLE IN THE GROUND CRUDE OIL, [00:17:07] WE'RE ACTUALLY GETTING IT FROM THINGS [00:17:09] LIKE MUNICIPAL SOLID WASTE, OR WOOD [00:17:11] WASTE, OR WOODY BIOMASS, [00:17:15] EVEN WASTE COOKING OILS, USED COOKING [00:17:18] OILS, THOSE ARE ALL POTENTIAL FEEDSTOCKS [00:17:22] THAT CAN BE PUT INTO DIFFERENT PATHWAYS. [00:17:25] AND THOSE PATHWAYS ARE BOTH BIOCHEMICAL [00:17:28] AND THERMOCHEMICAL PROCESSES THAT ARE [00:17:31] USING BASICALLY THE [00:17:35] HYDROGEN AND CARBON SYNTHESIZED INTO [00:17:39] AN ACTUAL JET FUEL. NEXT SLIDE, [00:17:43] PLEASE. [00:17:48] SO ONE OF THE PATHWAYS THAT IS [00:17:51] BEING DEVELOPED IS ONE THAT'S CALLED [00:17:54] POWER TO LIQUIDS. AND MANY PEOPLE HAVE [00:17:56] BEEN TALKING ABOUT IT. THERE'S A LOT OF [00:17:59] WORK IN EUROPE THAT IS WORKING ON [00:18:03] THE POWER TO LIQUIDS. [00:18:06] ALL OF THIS, ALL SAFS NEED A SOURCE OF [00:18:09] CARBON AND HYDROGEN. THAT CARBON MAY BE [00:18:12] COMING, AS I MENTIONED, FROM THE [00:18:13] FEEDSTOCKS LIKE THE WOODY BIOMASS. [00:18:16] AND IN SOME CASES THERE ARE SOME [00:18:19] COMPANIES THAT ARE TRYING TO GET IT OUT [00:18:21] OF THE AIR. AND I'LL GO OVER THAT IN A [00:18:24] SECOND. BUT THE FEEDSTOCKS THAT WE [00:18:27] WERE MENTIONING THOUGH, THE USED COOKING [00:18:28] OIL AND A WOODY WASTE AND A WOODY [00:18:31] BIOMASS, THERE ARE SOME LIMITS TO THAT, [00:18:34] ESPECIALLY WHEN WE'RE TALKING ABOUT USED 100:18:351 COOKING OILS, A LOT OF THAT'S GOING INTO [00:18:38] BIODIESEL AND NOT NECESSARILY INTO [00:18:41] SUSTAINABLE AVIATION FUEL, BUT BY [00:18:46] SOME OF THESE COMPANIES THAT ARE WORKING [00:18:48] ON PTL, THEY'RE ACTUALLY ABLE TO GET [00:18:51] THAT CARBON FROM CARBON DIOXIDE OUT OF [00:18:54] THE ATMOSPHERE. THOSE PROCESSES ARE [00:18:58] BEING DEVELOPED. ONE OF THOSE IS A [00:19:00] COMPANY THAT'S WORKING ON THAT IS [00:19:03] TWELVE, AND I KNOW THAT THEY ARE [00:19:06] SOMEWHAT HEADQUARTERED IN THE PACIFIC [00:19:09] NORTHWEST AS WELL. AND SO THAT'S VERY [00:19:12] ENCOURAGING. WE HAVE TALKED WITH THE CEO [00:19:15] THERE ALONG WITH OUR DEVELOPMENT TEAM [00:19:18] AND ARE HELPING THEM ACROSS THE BOARD [00:19:22] AND WITH CAFFEINE. THE NICE THING ABOUT [00:19:24] IT IS WE DON'T PICK WINNERS. WE'RE [00:19:26] TRYING TO DEVELOP IT AND [00:19:30] CREATE AS MANY INDUSTRY COMPANIES THAT [00:19:34] WE CAN THAT ARE ACTUALLY PRODUCING THE [00:19:37] SUSTAINABLE AVIATION FUEL. WITH THESE [00:19:41] PTO COMPANIES THOUGH, THEY DO NEED AN [00:19:45] AWFUL LOT OF POWER, ESPECIALLY WHEN [00:19:48] YOU'RE TALKING ABOUT GETTING THE [00:19:49] HYDROGEN. AND SOME OF THE HYDROGEN RIGHT [00:19:51] NOW IS COMING FROM A PROCESS CALLED [00:19:54] ELECTROLYSIS. AND THAT'S WHERE YOU'RE [00:19:56] BASICALLY ELECTROLYZING WATER TO TURN IT [00:19:59] INTO THE HYDROGEN AND THE OXYGEN,

[00:20:02] THAT'S THE H 20 THAT COMES OUT OF THAT.



[00:20:05] AND SO FROM THAT HYDROGEN THEN IS [00:20:10] WHERE WE THEN TAKE THAT AND PUT IT IN TO [00:20:13] MAKE THAT SYNTHETIC HYDROCARBON. AND [00:20:16] AGAIN, IT DOES REQUIRE AN AWFUL LOT OF [00:20:19] POWER AND THAT'S WHY A LOT OF THESE [00:20:21] COMPANIES ARE ALSO WORKING ON RENEWABLE [00:20:24] ENERGY SOURCES. SOLAR AND WIND ARE [00:20:28] TWO OF THE BIGGEST ONES THAT PEOPLE HAVE [00:20:31] REALLY STARTED TO TAP INTO. SO THIS IS 100:20:351 JUST ONE OF THE PATHWAYS THAT IS [00:20:38] BEING DEVELOPED CURRENTLY. RIGHT NOW WE [00:20:40] HAVE SEVEN DIFFERENT PATHWAYS, [00:20:43] ANNEXES THAT ARE WAYS TO MAKE SAF. [00:20:48] NEXT SLIDE PLEASE. [00:20:52] SO SOME OF THOSE FEEDSTOCKS [00:20:56] I WANTED TO SORT OF HIGHLIGHT FOR YOU [00:20:59] SOME OF THE PRODUCTION POTENTIALS THAT [00:21:01] COME OUT OF THAT. AND CERTAINLY YES, [00:21:05] THERE ARE SOME LIMITATIONS. MUNICIPAL [00:21:07] SOLID WASTE, ANY MAJOR CITY [00:21:11] WILL CERTAINLY HAVE A LOT OF LANDFILLS [00:21:14] AND SO YOU CAN USE THAT. MUNICIPAL SOLID [00:21:17] WASTE PROBLEM WITH THAT OBVIOUSLY IS [00:21:19] THAT YOU STILL HAVE TO TAKE OUT ALL [00:21:23] THE METALS. YOU HAVE TO TAKE OUT ANY [00:21:25] RECYCLABLES AS WELL IN ORDER TO GET [00:21:29] TO THAT CARBONATIOUS TYPE OF MATERIALS [00:21:31] THAT YOU'RE REALLY WANTING, FORESTRY [00:21:34] WASTE RESIDUES, WOOD PROCESSING WASTE, [00:21:38] ALL OF THOSE ARE MAINLY IN THAT WOOD [00:21:41] INDUSTRY IN SOME CASES. SOME PEOPLE ARE [00:21:44] LINKED IN WITH SOME OF THE SAWMILLS TO [00:21:48] ACTUALLY USE THE SAWDUST AND USE THAT 100:21:501 FOR THE FEEDSTOCKS. AGRICULTURAL WASTE. [00:21:55] CORN STOVER AND SUGAR CANE, BE GAS, [00:21:58] THOSE ARE THE REMNANTS FROM THOSE TWO [00:22:00] INDUSTRIES. YOU CAN CERTAINLY USE THAT [00:22:03] AS WELL TOO. BUT AGAIN, THERE ARE [00:22:06] LIMITATIONS TO THAT. AND THEN WASTE FOOD [00:22:09] PRODUCTION OILS, THAT'S THE USED COOKING [00:22:11] OILS WE TALKED ABOUT. INDUSTRIAL LOFT [00:22:13] GASES. THERE'S ONE COMPANY THAT'S ABLE [00:22:16] TO TAKE CARBON MONOXIDE FROM [00:22:20] A STEEL PLANT AND USE THAT [00:22:23] IN ORDER TO TURN THAT INTO SUSTAINABLE [00:22:25] AVIATION FUEL, WHICH IS NICE. AND THEN [00:22:29] THE BOTTOM ONE THERE, THE OIL AND [00:22:30] CELLULOSIC CROPS. THERE'S A LOT OF [00:22:33] DIFFERENT TYPES OF PURPOSE GROWN OIL [00:22:37] FEEDSTOCKS LIKE CAMLINA, [00:22:40] CARINATA, JATROPHA, [00:22:43] PANGAMIA. ALL OF THOSE ARE ACTUALLY [00:22:46] FEEDSTOCKS THAT COME FROM PURPOSE GROWN [00:22:50] PLANTS, BASICALLY. BUT AGAIN, THOSE ARE [00:22:53] SOME LIMITATIONS TOO. AND THEN THE [00:22:56] BOTTOM ONE, OBVIOUSLY, WE ALREADY TALKED [00:22:58] ABOUT THE POWER TO LIQUIDS. THERE'S [00:23:00] PLENTY OF CO2 THAT'S IN THE ATMOSPHERE [00:23:02] THAT WE CAN HARNESS. [00:23:05] AND BY DOING THAT, [00:23:09] IT DOESN'T NECESSARILY OPEN IT UP. BUT [00:23:11] THERE ARE CERTAINLY SOME LIMITATIONS,

[00:23:13] LIKE I MENTIONED, WITH THE POWER THAT'S



[00:23:16] NEEDED FOR THAT AS WELL, NEXT SLIDE. [00:23:20] PLEASE, CHRIS, CAN I ASK YOU TO JUST [00:23:23] PAUSE THERE? BEFORE WE MOVE ON TO [00:23:25] CONSUMPTION AND PRODUCTION, I WOULD WANT [00:23:28] TO PAUSE AND SEE IF THE COMMISSIONER [00:23:30] HAVE ANY QUESTIONS ON THE PREVIOUS SET [00:23:34] OF SLIDES. [00:23:39] COMMISSIONER CALKINS, [00:23:43] DOES THIS CHART THAT WE'RE LOOKING AT 100:23:451 HERE. IT DOESN'T APPEAR TO FACTOR [00:23:49] IN THE COSTS OF EACH OF THESE DIFFERENT [00:23:53] SOURCES. I RECALL A COUPLE OF YEARS AGO, [00:23:56] AS WE WERE TALKING ABOUT WOODY BIOMASS, [00:23:58] THAT ONE OF THE BIGGEST CHALLENGES IS [00:24:00] IT'S DISPERSED OVER THE ENTIRETY OF THE [00:24:01] PACIFIC NORTHWEST. HOW DO WE GET IT TO A [00:24:03] CENTRAL PROCESSING POINT? AND IN DOING [00:24:05] SO, WE'RE LIKELY GOING TO UNDO ALL OF [00:24:07] THE CARBON BENEFITS WE'D RECEIVE FROM [00:24:10] IT BECAUSE WE'D BE TRUCKING IT IN CARBON [00:24:14] POWERED TRUCKS. SO IS THAT FACTORED INTO [00:24:17] THESE POTENTIAL RESOURCES? [00:24:20] NO, SIR. THESE ARE JUST THE NUMBER OF [00:24:24] MILLIONS OF TONS, METRUCK TONS, THAT ARE [00:24:27] AVAILABLE. SO THE COST IS NOT FED INTO [00:24:31] THIS PARTICULAR THING. THIS IS JUST WHAT [00:24:33] MAY BE OUT THERE ON THE FOREST FLOOR OR [00:24:38] IN THE FARM, THE FARM FLOOR. SO THOSE [00:24:42] ARE JUST WHAT'S AVAILABLE THAT MAY BE [00:24:44] OUT THERE FOR THIS PARTICULAR SLIDE. [00:24:47] AND WE DO HAVE UPCOMING SLIDES ABOUT THE [00:24:51] COST AND THE RELATIVE COSTS RELATED TO [00:24:53] THESE DIFFERENT FEEDSTOCKS. SO STAY 100:24:561 TUNED. WE HAVE MORE ON COST COMING. [00:24:59] GREAT. AND THEN IF WE ADD UP ALL OF [00:25:02] THESE RED BARS, HOW MANY GALLONS ROUGHLY [00:25:05] WOULD THAT BE EQUIVALENT TO? IF WE'RE [00:25:07] THINKING ABOUT 26 BILLION GALLONS IS THE [00:25:10] I THINK YOU SAID THE DOMESTIC NEED. [00:25:12] WHAT IS THIS EQUIVALENT TO ROUGHLY? [00:25:16] WELL, IT DOES DEPEND I DON'T HAVE AN [00:25:19] ANSWER FOR YOU, SIR, BUT WE CAN 100:25:231 CERTAINLY DO A ROUGH ORDER OF MAGNITUDE. [00:25:26] I GUESS IT DEPENDS ALSO ON THE ACTUAL [00:25:30] PATHWAY THAT YOU'RE USING. SOME OF THE [00:25:33] PATHWAYS MAY USE MORE THE FEEDSTOCK THAN [00:25:36] OTHERS, BUT THEY'RE USING THAT MAYBE [00:25:40] BECAUSE THE CAPEX FOR THAT PARTICULAR [00:25:42] PLANT MAY BE LOWER THAN ANOTHER ONE. [00:25:47] SO I CAN'T REALLY ANSWER THAT DIRECTLY, [00:25:51] BUT CERTAINLY WE CAN FIND OUT WHAT [00:25:55] THAT WOULD ENTAIL. I DO THINK, THOUGH, [00:25:57] THAT THE AMOUNT THE USDA [00:26:01] AND DOE DID A STUDY, [00:26:05] THE BILLION TON STUDY, AND FROM THAT [00:26:08] THEY WERE ABLE TO DETERMINE EXACTLY HOW [00:26:11] MUCH THAT IS OUT THERE. I DO FEEL THAT [00:26:15] WE DO HAVE ENOUGH OF THOSE THAT ARE IN [00:26:18] THE RED BARS TO GET TO 26 BILLION [00:26:20] GALLONS. AND TO YOUR POINT, THOUGH, [00:26:23] ABOUT AGGREGATING, FOR INSTANCE, WOODY [00:26:26] BIOMASS, THAT CERTAINLY IS A PROBLEM. [00:26:29] BUT IN AN UPCOMING SLIDE, I'LL SHOW YOU



[00.26.33] THAT	WE WANT TO PUT THE BIPOC REFINERY
	E TO WHERE THE FEEDSTOCKS ARE. AND
	REASON FOR THAT, IT'S JUST EASIER TO
[00:26:42] GFT ]	FO PUMP LIQUID FUEL THAN
[00:26:46] IT IS	TO, LIKE YOU SAY, METRUCK ALL OF
	WOODY BIOMASS COMING FROM THE
[00:26:51] FORE	ST FLOOR OR WHEREVER. BUT WHEN
	ALSO THINK ABOUT IT FROM THE
	DPOINT OF CARBON REDUCTIONS,
[00:27:00] BECA	USE THOSE TREES HAVE ACTUALLY TAKEN
[00:27:04] CARE	SON OUT OF THE AIR IN THEIR
	SPAN, THEN THAT FEEDSTOCK ALREADY
	A LOT OF CARBON IN IT. SO THAT
[00:27:15] WHEN	N WE DO CONVERT IT INTO SUSTAINABLE
[00:27:17] AVIAT	TION FUEL, SOMETIMES WE GET ANYWHERE
	M MAYBE 50% TO 80% LESS CARBON
[00:27:24] REDU	ICTION ACROSS THE WHOLE LIFECYCLE,
[00:27:26] WHIC	H WOULD INCLUDE TRANSPORTING THOSE
	S AND TIMBER TO AN ACTUAL BI
	NERY. THANK YOU,
[00:27:37] COM	MISSIONER FELLEMAN,
[00:27:41] FOLL	OWING ON THAT POINT, OBVIOUSLY,
	CIPAL SOLID WASTE IS NEARBY A LOT OF
	ES, SO IT CERTAINLY HAS SOME APPEAL
[00:27:47] TO TH	HAT AND LOOK FORWARD TO THE KING
[00:27:49] COUN	NTY STUDY. BUT I GUESS I WANT TO GO
	TO THE MORE OF THE FUNDAMENTALS
	STEPHANIE BROUGHT UP WITH REGARDS
[00:27:55] TO TH	HE SCOPE THREE EMISSIONS AT SEA.
[00:27:57] AND I	REALLY APPRECIATE YOU PROVIDING
	FIGURE ON THE JET A DISPENSED AT
	GOING ALL THE WAY UP TO 2022 AND
[00:28:06] SHOV	VING THAT INCREASE. BUT OF COURSE,
	INVENTORIES ALWAYS LAG OUR CURRENT
	US. BUT I THINK IT'S VERY
[00:28:14] INFO	RMATIVE TO SEE THE RELATIVE PERCENT
[00:28:17] OF TH	HE I LOVE THIS NEW TERM.
	RIGHT. THAT LANDING,
	· · · · · · · · · · · · · · · · · · ·
	OFF, AND OPERATIONS.
[00:28:29] I'M JU	IST WONDERING, THE TRAJECTORY OF
[00:28:31] THE A	AIRCRAFT OPERATIONS,
	SLOPE OF THAT LINE WILL MATTER A
	AND WITH STOPS AT 2019, DO YOU
	JLD ASSUME YOU HAVE SOME ESTIMATES
[00:28:43] GOIN	G FORWARD REGARDING THAT AND AND THE
[00.28.46] REI Δ	TIVE PERCENTAGE OF THESE OTHER
	RIBUTIONS SO WE CAN WEIGH OUR
[00:28:51] EFFO	RTS. YEAH, AND I DON'T KNOW IF
[00:28:54] YOU'F	RE ABLE TO JUST GO TWO SLIDES BACK
	I THIS ONE. YEAH, THIS ONE WE DO
	, ACTUALLY, THE 2020 EMISSIONS, BUT
[00:29:02] THEY	DROP PRETTY DRAMATICALLY. AND THEN
[00:29:05] THE 2	2021 AND 2022, WE'RE BUILDING THAT
	NTORY NOW. SO WE FELT THAT THIS DROP
	WITHOUT AN ANSWER OF THAT GROWING
	MAYBE A DECEIVING SLIDE TO SUGGEST
[00:29:16] THAT	WE WERE GETTING CLOSER TO MEETING
	GOAL. BUT IN FACT, IT WAS A
	LDWIDE PANDEMIC THAT CAUSED THOSE
	SIONS. BUT AS YOU CAN SEE, THAT
[00:29:24] YELLO	OW LINE IS AIRCRAFT OPERATIONS AT
	AIRPORT, AND IT IS THE DRIVER BEHIND
	E SCOPE THREE EMISSIONS. SO THE
[00.28.30] 17123	L JOOI L THILL LIVINGSIONS, SU THE



[00:29:33] FORECASTS ARE THAT OUR AIRCRAFT
[00:29:35] OPERATIONS ARE GOING TO CONTINUE TO
[00:29:37] GROW. THE DATA WE HAVE COLLECTED TO DATE
[00:29:40] FOLLOWS THAT TREND. SO WHEN WE DO
[00:29:42] PUBLISH THE INVENTORY UP TO DATE, YOU
[00:29:46] WILL SEE IT PRETTY CLOSELY FOLLOWING THE
[00:29:50] SAME TREND THAT YOU SAW THE JET FUEL IN
[00:29:52] THE SUBSEQUENT SLIDE, WHERE IT DROPS,
[00:29:55] BUT THEN IT STARTS GROWING AGAIN. AND
[00:29:57] THE PROJECTIONS ARE THAT IT WILL
[00:29:58] CONTINUE TO GROW AND FOLLOW THE US
•
[00:29:59] PATTERN THAT YOU SEE ALSO IN THE FAA
[00:30:02] SLIDE. AND THEN IF I COULD JUST FOLLOW
[00:30:03] UP. AT THE SAME TIME, THERE IS SOME
[00:30:05] DIMINUTION PER AIRCRAFT DUE TO
•
[00:30:08] TECHNOLOGY INVESTMENT, CORRECT? YES, SO
[00:30:11] THERE IS SOME OF THAT AND WE ARE SEEING
[00:30:14] MORE EFFICIENT AIRCRAFT. ACTUALLY, JUST
[00:30:16] IN THE LAST YEAR WE SAW A PRETTY
[00:30:19] TREMENDOUS GROWTH IN OUR AIRLINES
[00:30:22] TURNING OVER THEIR FLEET AND BRINGING IN
[00:30:24] A LOT MORE EFFICIENT AIRCRAFT. BUT I
•
[00:30:27] ALSO THOUGHT THERE WAS A TREND TOWARDS
[00:30:28] LARGER PLANES ON AVERAGE, BECAUSE LIKE
[00:30:30] WITH SHIPS, WE HAVE MORE TEUS WITH LESS
[00:30:34] VESSELS BECAUSE OF THE SIZE OF
[00:30:35] INDIVIDUAL VESSELS. WE'RE TALKING ABOUT
[00:30:39] MORE LANDINGS AND TAKEOFFS AS WELL AS
[00:30:41] POTENTIALLY BIGGER PLANES. I CAN'T SPEAK
•
[00:30:44] TO ALL OF THE TRENDS AND WE PROBABLY
[00:30:46] NEED OUR OPERATIONS TEAM HERE TO FULLY
[00:30:48] DESCRIBE THIS. BUT WHAT WE DID SEE IS
[00:30:51] PRIOR TO COVID, WE SAW MORE OF THE
[00:30:54] INTERNATIONAL FLIGHTS, SORT OF LOOKING
[00:30:55] AT WHERE THERE WERE THESE LARGE MIDDLE
[00:30:58] EASTERN HUBS, THEY WOULD LOOK AT GETTING
[00:31:01] THOSE LARGER AIRCRAFT, BUT WE ACTUALLY
[00:31:03] SEE THE A 380, WHICH WE DON'T EVEN HAVE
[00:31:05] AT OUR AIRPORT. BUT THOSE REALLY BIG
[00:31:07] JUMBO JETS, THEY'RE STOPPING PRODUCTION
[00:31:10] OF THOSE AND MOVING MORE TO THOSE MID
[00:31:13] RANGE OR EVEN FOR THE LARGER
[00:31:15] INTERNATIONAL, THEY'RE NOT THESE DOUBLE
[00:31:17] DECKERS ANYMORE. SO WE'RE NOT SEEING
[00:31:19] ACTUALLY AS MUCH OF THAT THE SUPER JUMBO
[00:31:23] PLAINS. BUT WE PROBABLY NEED OUR
[00:31:24] OPERATIONS TEAM TO SPEAK FURTHER ABOUT
[00:31:27] THE OTHER SPECIFICS. YEAH, FOR THE
[00:31:30] RECORD, WE'VE BEEN JOINED IN PERSON BY
[00:31:32] COMMISSIONER MOHAMED. SHE'S BEEN
[00:31:33] LISTENING ONLINE TO THIS POINT. SO I'LL
[00:31:35] TURN TO YOU AND SEE IF YOU HAVE ANY
[00:31:36] QUESTIONS FOR STAFF AT THIS MOMENT.
[00:31:39] OKAY, SO BUILDING OFF OF COMMISSIONER
[00:31:41] FELLEMAN'S QUESTIONS, THE BIDEN
[00:31:44] ADMINISTRATION'S GOALS TO BE CARBON
[00:31:47] NEUTRAL BY 2050 DEMONSTRATE THE NEED FOR
[00:31:49] STAFF. I'M WONDERING WHERE THE OTHER
[00:31:51] STRATEGIES THAT THEY IDENTIFIED, LIKE
[00:31:55] NEW AIRCRAFT TECHNOLOGY AND OPERATIONS
[00:31:57] IMPROVEMENT, FIT INTO OUR STRATEGY TO



[00:32:07] SIT ON COMMITTEES ABOUT ELECTRIFICATION
[00:32:10] AND WE HAVE ALSO PARTICIPATED IN SOME
[00:32:13] NATIONAL STUDIES THAT ARE LOOKING AT
[00:32:15] HYDROGEN AND WHAT ROLE AIRPORTS MIGHT
[00:32:17] PLAY AS THERE ARE TRANSITIONS TO THAT.
[00:32:20] SO WE'RE ACTIVELY FOLLOWING THAT AREA.
[00:32:24] AND WE HAVE SOME STUDIES, ESPECIALLY AS
[00:32:27] WE'RE LOOKING AT THE FUTURE GROWTH OF
[00:32:28] OUR ELECTRICAL DEMAND AT THE AIRPORT.
[00:32:30] WE HAVE FACTORED IN WHAT KIND OF GROWTH
[00:32:33] WE MIGHT NEED TO SUPPORT SOME OF THE
[00:32:35] SMALLER DISTANCE AIRCRAFT BECAUSE THAT
[00:32:39] SAME TREND IS SHOWING THAT IT'S REALLY
[00:32:41] BY 2050, IT WILL STILL ONLY BE SORT OF
[00:32:44] REGIONAL AIRCRAFT THAT ARE LIKELY TO BE
[00:32:46] ABLE TO TRANSITION TO ELECTRIC. SO WE
[00:32:49] ARE ENGAGED IN THE SPACE AND FOLLOWING
[00:32:54] WHERE WE NEED TO BE AS AIRPORTS TO BE
[00:32:58] RESPONSIVE TO THOSE CHANGES. BUT WE
[00:33:01] HAVEN'T ACTIVELY THERE ARE NO
[00:33:05] COMMERCIAL AIRCRAFT RIGHT NOW THAT ARE
[00:33:07] DEMANDING THOSE FUELS, BUT WE ARE
[00:33:09] ACTIVELY ENGAGED IN THE SPACE NATIONALLY
[00:33:11] AND INTERNATIONALLY. AND THEN THE SCALE
[00:33:14] OF OUR NEED FOR STAFF AT SEA
[00:33:17] IN ORDER TO MEET OUR OWN GOALS AND THE
[00:33:19] GOALS FOR OUR PARTNERS.
[00:33:23] WOULD YOU SAY THAT IT ALIGNS WITH WHAT'S
[00:33:25] DEMONSTRATED ON SLIDE NINE? I WOULD SAY
•
[00:33:29] THAT THAT'S VERY ACCURATE.
[00:33:32] WE'RE DOMINATED BY NARROW BODY NATIONAL
[00:33:35] FLIGHTS AT OUR AIRPORT, ALONG WITH
[00:33:37] INTERNATIONAL. SO THOSE TRENDS ARE VERY
[00:33:41] MUCH THE WAY WE'D LOOK AT IT HERE.
[00:33:44] THANK YOU.
[00:33:47] GREAT. THANK YOU. CHRIS, IF YOU WANT TO
[00:33:49] CONTINUE. SO IF WE FAST FOR THE SLIDE
[00:33:53] DECK, I THINK IT'S SLIDE 15 THERE.
[
IOO:33:57] RIGHT? THANK YOU OKAY THANK YOU
[00:33:57] RIGHT? THANK YOU. OKAY, THANK YOU.
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE [00:34:08] HAD, WE HAVE BEEN TRACKING THAT BOTH
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE [00:34:08] HAD, WE HAVE BEEN TRACKING THAT BOTH [00:34:12] ON THE GOVERNMENT SIDE AND ON THE
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE [00:34:08] HAD, WE HAVE BEEN TRACKING THAT BOTH [00:34:12] ON THE GOVERNMENT SIDE AND ON THE [00:34:14] COMMERCIAL SIDE, AND ON THE GOVERNMENT
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE [00:34:08] HAD, WE HAVE BEEN TRACKING THAT BOTH [00:34:12] ON THE GOVERNMENT SIDE AND ON THE [00:34:14] COMMERCIAL SIDE, AND ON THE GOVERNMENT [00:34:17] SIDE, WHICH YOU SEE THERE ALL THE WAY
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE [00:34:08] HAD, WE HAVE BEEN TRACKING THAT BOTH [00:34:12] ON THE GOVERNMENT SIDE AND ON THE [00:34:14] COMMERCIAL SIDE, AND ON THE GOVERNMENT [00:34:17] SIDE, WHICH YOU SEE THERE ALL THE WAY [00:34:19] BACK TO 2007, THE US. AIR FORCE AND THE
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE [00:34:08] HAD, WE HAVE BEEN TRACKING THAT BOTH [00:34:12] ON THE GOVERNMENT SIDE AND ON THE [00:34:14] COMMERCIAL SIDE, AND ON THE GOVERNMENT [00:34:17] SIDE, WHICH YOU SEE THERE ALL THE WAY
[00:34:01] NO PROBLEM. AND THANK YOU FOR THOSE [00:34:04] QUESTIONS AS WELL. SO, CURRENTLY, WHEN [00:34:07] WE LOOK AT OUR CONSUMPTION THAT WE'VE [00:34:08] HAD, WE HAVE BEEN TRACKING THAT BOTH [00:34:12] ON THE GOVERNMENT SIDE AND ON THE [00:34:14] COMMERCIAL SIDE, AND ON THE GOVERNMENT [00:34:17] SIDE, WHICH YOU SEE THERE ALL THE WAY [00:34:19] BACK TO 2007, THE US. AIR FORCE AND THE [00:34:22] US. NAVY, THEY DID A COUPLE OF
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100:35:221 THE ACTUAL SIX OR SEVEN DIFFERENT [00:35:25] ANNEXES AT THIS POINT. SO WHEN [00:35:29] YOU SEE THIS, THERE'S A HUGE UPTICK [00:35:34] IN 2022. WE WERE ALMOST [00:35:38] 15.8 MILLION GALLONS AT THAT POINT, [00:35:43] AND WE'RE DEFINITELY ON TRACK TO EXCEED [00:35:46] THAT IN 2023. I THINK A LOT OF THAT IS [00:35:49] BEING HELPED BY THE BLENDERS TAX CREDIT [00:35:52] AS A PART OF THE IRA, IN THAT THOSE 100:35:561 PRODUCERS THAT ARE OUT THERE ARE SAYING. [00:35:58] HEY, YOU KNOW WHAT? I CAN GET A LITTLE [00:35:59] BIT EXTRA MONEY BY SELLING THE STAFF. [00:36:02] AND SO THEY'RE DEFINITELY ON TRACK FOR [00:36:05] EXCEEDING THE 2022 NUMBERS AT THIS [00:36:09] POINT. WHEN YOU LOOK AT IT, [00:36:12] YES, WE DEFINITELY HAVE WORLD ENERGY, [00:36:15] WHICH IS DOWN IN PARAMOUNT, CALIFORNIA, [00:36:18] BUT THEN WE ALSO HAVE FINLAND'S NEST [00:36:21] DAY. THEY'VE SOLD A LOT OF STAFF [00:36:26] INTO THE CALIFORNIA AND TO THE US. [00:36:30] DOMESTIC MARKET AS WELL, TOO. AND SO [00:36:34] WE CERTAINLY ARE RELYING AND WE ARE [00:36:36] TRACKING THOSE PARTICULAR IMPORTS AS [00:36:39] WELL. SO THIS IS ACTUALLY THE [00:36:43] AMOUNT OF NEAT MILLION GALLONS PER YEAR [00:36:46] THAT HAVE BEEN CONSUMED. AND NEAT [00:36:48] MILLION, THAT JUST NEAT MEANS THAT WAS [00:36:52] THE SUSTAINABLE AVIATION FUEL PORTION. [00:36:54] SO IN THE CASES WHERE IT'S MIXED AT A 30 [00:36:58] TO 70 BLEND, THAT 30% IS WHAT WE'RE [00:37:01] TRACKING. WE'RE NOT TRACKING THE AMOUNT [00:37:03] OF FOSSIL FUEL THAT WAS BLENDED WITH [00:37:05] THAT IN ORDER TO MAKE THE JET. WE'RE 100:37:081 ACTUALLY ONLY TALKING ABOUT THE SAP [00:37:10] PORTION WHEN WE TALK ABOUT IN 2022, [00:37:14] THE 15.8 MILLION GALLONS THAT WERE [00:37:16] ACTUALLY CONSUMED. OKAY, NEXT SLIDE, [00:37:20] PLEASE. [00:37:24] OKAY. SO RIGHT NOW WE KNOW ABOUT SOME [00:37:29] PRODUCTION FORECASTS THAT SOME OF THESE [00:37:32] ARE ALL PUBLIC ANNOUNCEMENTS THAT HAVE [00:37:35] BEEN THAT HAVE BEEN MADE. AND SO YOU SEE [00:37:38] THAT BY THE END OF 2025. [00:37:42] WE HOPE TO BE ALMOST AT A BILLION [00:37:44] GALLONS OF ACTUAL CAPACITY, [00:37:48] PRODUCTION CAPACITY, AND THAT IS ALL [00:37:51] DOMESTIC. AND YOU CAN SEE ALL THE [00:37:53] NUMBERS THERE. PAST THAT, [00:37:57] IT'S KIND OF HARD TO TELL, EVEN THOUGH [00:38:00] THERE ARE SOME PUBLIC ANNOUNCEMENTS OUT [00:38:01] THERE ALL THE WAY. WE NORMALLY TRACK IT [00:38:04] AT A FIVE YEAR SCALE. SO OUT [00:38:08] TO 2028. THE PROBLEM WITH THAT [00:38:11] IS THAT THERE'S SO MUCH FLUX IN THE [00:38:15] AMOUNT OF WERE THEY [00:38:18] ABLE TO GET FINANCING. AND SO A LOT OF [00:38:22] TIMES WE'LL HAVE COMPANIES THAT WE PUT [00:38:26] ON THIS CHART, BUT THEN WE HAVE TO TAKE [00:38:27] THEM OFF BECAUSE THEY'RE NOT ABLE TO [00:38:29] PRODUCE. WE'RE NOT ABLE TO GET [00:38:31] FINANCING, OR WE'RE CONSTANTLY MOVING [00:38:34] THEM FROM THE LEFT TO THE RIGHT, AS IT [00:38:37] SAYS. OKAY, SO WE'RE NOT ABLE TO PRODUCE



100:38:401 IN 2024. SO WE'RE GOING TO MOVE IT TO [00:38:42] 2025, FOR INSTANCE. SO THIS [00:38:46] SORT OF GIVES YOU A SNAPSHOT. [00:38:49] SO 1 BILLION GALLONS BY 2025, [00:38:52] AND WITH A GOAL OF 3 BILLION GALLONS [00:38:56] BY 2030, HOPEFULLY WE'LL BE ABLE TO BE [00:38:59] THERE. ONE OTHER POINT THAT I WANT TO [00:39:01] POINT OUT ON THIS IS THAT THIS IS [00:39:03] PRODUCTION CAPACITY, AND SO THESE 100:39:071 PARTICULAR COMPANIES ARE ABLE TO PRODUCE [00:39:10] AT THAT LEVEL. HOWEVER, WE ALSO [00:39:13] HAVE TO MAKE SURE THAT THE AIRLINES ARE [00:39:16] PURCHASING THAT FUEL. AND AS WE TALK [00:39:18] ABOUT IN A LATER SLIDE ABOUT THE PRICE [00:39:22] OR THE VALUE OF SAF, THAT DOES [00:39:25] CERTAINLY VARY. AND SO IT'S A MATTER OF [00:39:28] THE APPETITE FOR THE AIRLINES TO BE ABLE [00:39:30] TO PURCHASE ALL OF THIS PRODUCTION [00:39:34] CAPACITY. OKAY, NEXT SLIDE, PLEASE. [00:39:41] OKAY, AND SO THIS IS WHERE WE START TO [00:39:43] GET INTO THE PRICE IN [00:39:48] A LOT OF DIFFERENT CASES. AS I MENTIONED [00:39:50] TO YOU, WE HAVE SEVEN DIFFERENT ANNEXES [00:39:55] HEFA, THE HYDROPROCESS, ESTERS AND FATTY [00:39:58] ACIDS. SORRY FOR THE LONG ACRONYMS, BUT [00:40:01] THEY'RE THERE. SO THROUGH THAT HEFA, [00:40:04] SAF THAT RIGHT NOW 100:40:081 IS VALUED AT AROUND \$7 A GALLON, THAT'S [00:40:11] WITHOUT THE POLICY SUPPORT. WHEN YOU DO [00:40:14] GASIFICATION OR POWER TO LIQUIDS AND THE [00:40:17] FISHER TROPES PATHWAY, IT MAY BE A [00:40:20] LITTLE BIT MORE PER TON OF CO2 THAT [00:40:23] WE'RE TRYING TO ABATE. AND THEN THE 100:40:261 ALCOHOL TO JET IS ANOTHER PATHWAY. [00:40:29] AND THAT MAY COST A LITTLE BIT MORE. [00:40:32] AND SO WHEN YOU LOOK AT THAT ACROSS THE [00:40:34] BOARD, IT COULD BE ANYWHERE FROM TWO TO [00:40:38] EIGHT TO TEN TIMES HIGHER THAN [00:40:41] TRADITIONAL FOSSIL JET. AND IT ALSO [00:40:44] DEPENDS ON THE FEEDSTOCK. IT DEPENDS ON [00:40:47] GETTING ALL THAT FEEDSTOCK TO THE BUYER [00:40:51] FINDRY ITSELF. AND SO THERE'S A LOT OF [00:40:54] THAT THAT YOU HAVE TO PLAY INTO WITH [00:40:56] LOGISTICS. I'LL PAUSE AT THIS POINT TO [00:40:59] SEE IF THERE ARE ANY QUESTIONS ON THE [00:41:02] PRICE RELATED TO THIS PARTICULAR CHART [00:41:05] AND SEE IF THERE'S ANY OTHER QUESTIONS [00:41:08] THAT YOU MAY HAVE ON THE PRICE. [00:41:15] YES. [00:41:19] OKAY. I GUESS THERE'S NONE. [00:41:23] NO, I'VE I'VE GOT A QUICK QUESTION FOR [00:41:25] YOU I'M REALLY INTRIGUED BY SO I'VE [00:41:28] STARTED TO GET INVOLVED IN THESE [00:41:29] CONVERSATIONS AROUND POWER TO X AND IT'S [00:41:31] THE FIRST TIME I'VE HEARD THIS SORT OF [00:41:33] SUBSET POWER TO LIQUIDS. AND I [00:41:38] IMAGINE THE REASON THE BAND IS SO WIDE [00:41:41] ON THIS IS BECAUSE IT'S SO DEPENDENT [00:41:44] UPON THE COST OF THE INPUT ENERGY. [00:41:48] SO WHETHER IT'S WIND OR SOLAR OR SOME [00:41:52] OTHER FORM OF RENEWABLE AND SO [00:41:56] ARE WE LOOKING AT SORT OF EVEN IN THE [00:41:59] BEST CASE SCENARIO THAT POWER TO LIQUID



100:42:031 SAF IS NOT EVER GOING TO BE ABLE TO [00:42:06] BREAK BELOW THAT BOTTOM NUMBER? [00:42:14] I THINK THAT WE WILL BE ABLE TO. THE [00:42:16] PROBLEM THAT WE HAVE WITH THAT RIGHT [00:42:18] NOW, COMMISSIONER, IS THAT IT IS STILL A [00:42:22] VERY NASCENT INDUSTRY OVERALL FOR STAFF. [00:42:26] WE'VE ONLY BEEN AROUND LESS THAN TWO [00:42:28] DECADES AND SO WE ARE STILL WORKING ON [00:42:33] THE TECHNOLOGY DEVELOPMENT AND TRYING TO [00:42:36] MAKE IT MORE EFFICIENT. YES, THE [00:42:39] RENEWABLE ENERGY PIECE CERTAINLY PLAYS A [00:42:42] BIG PART OF THAT. AND SOME OF THESE [00:42:45] COMPANIES THAT MAY BE OUT THERE, THEY [00:42:46] MAY BE SAYING, OKAY, WELL, WE'RE JUST [00:42:48] GOING TO GET OUR POWER FROM THE GRID. [00:42:50] WELL, THAT DOESN'T NECESSARILY HELP [00:42:51] THEIR CARBON INTENSITY SCORE. WE WANT [00:42:54] THEM TO HAVE AS LOW OF A CARBON [00:42:57] INTENSITY SCORE AS POSSIBLE. AND THAT'S [00:42:59] WHERE SOME OF THEM, LIKE JIVO, ARE [00:43:03] CERTAINLY WORKING TO INCORPORATE [00:43:07] BOTH WIND POWER AND SOLAR POWER INTO [00:43:10] THEIR PROCESS SO THAT THEY ARE ALMOST A [00:43:14] NET NEGATIVE CARBON EMISSION. [00:43:19] AT THE END OF THE DAY, THAT'S WHAT [00:43:21] THEY'RE SHOOTING FOR. A LOT OF THESE [00:43:22] COMPANIES ARE ACTUALLY SHOOTING FOR 100:43:241 THAT. THAT AT THE END OF THE DAY. [00:43:28] WHEN YOU'RE GOING THROUGH THE FULL [00:43:29] LIFECYCLE, THAT AFTER YOU PUT IT INTO [00:43:32] THE JET AND IT FLIES ON THAT PARTICULAR [00:43:35] STAFF, THEN YOU ACTUALLY HAVE LESS [00:43:38] CARBON THROUGH [00:43:41] THE WHOLE LIFECYCLE OF THAT, YES, IT MAY [00:43:44] COST A LITTLE BIT MORE INITIALLY, BUT I [00:43:47] THINK THAT THROUGH TIME THESE THINGS [00:43:50] WILL BECOME MORE AND MORE MORE [00:43:52] EFFICIENT. WHEN YOU COMPARE THIS TWO [00:43:55] DECADES LONG INDUSTRY COMPARED TO 100 [00:43:59] PLUS FOSSIL FUEL INDUSTRY, [00:44:02] IT'S SOMEWHAT SOMETIMES HARD TO COMPETE [00:44:05] FROM THAT PERSPECTIVE. YEAH, IT REMINDS [00:44:08] ME OF A QUOTE I READ LAST NIGHT THAT [00:44:10] SAID WAS ABOUT SOMETHING TOTALLY [00:44:12] DIFFERENT, BUT I THINK IT APPLIES HERE, [00:44:14] WHICH IS CHANGE HAPPENS VERY SLOWLY AND [00:44:17] THEN ALL AT ONCE. AND I THINK THERE [00:44:20] WILL BE A TIPPING POINT IN A LOT OF [00:44:22] THESE TECHNOLOGIES WHERE ALL OF A SUDDEN [00:44:24] THIS WORK THAT HAS BEEN GRINDINGLY SLOW [00:44:27] SEEMS TO JUST HAPPEN OVERNIGHT. AND I [00:44:29] CAN SEE IT HAPPENING WITH A COUPLE OF [00:44:31] THESE PATHWAYS. ALSO, I WANT TO NOTE [00:44:34] THAT THE LAST TWO WEEKENDS IN NORTHERN [00:44:37] EUROPE, WALL STREET JOURNAL REPORTED [00:44:39] THAT THE WHOLESALE PRICE OF ENERGY [00:44:41] ACTUALLY WENT NEGATIVE. AND IT'S BECAUSE [00:44:43] THEY HAVE BROUGHT SO MUCH RENEWABLES ON [00:44:45] THAT DURING THIS TIME OF YEAR WHEN THERE [00:44:47] ISN'T REALLY AN AIR CONDITIONING NEED OR [00:44:48] A HEATING NEED AND THERE'S A SURPLUS OF [00:44:51] ENERGY AND THERE'S A LOT OF BASELOAD. [00:44:53] THEY CAN'T TURN OFF CERTAIN NUCLEAR



[00:44:55] FACILITIES AND OTHER THINGS, THEY'RE [00:44:57] LITERALLY HAVING TO PAY PEOPLE TO TAKE [00:44:58] ELECTRICITY OFF THE GRID. AND IF THERE [00:45:00] WERE MECHANISMS BY WHICH WE COULD CREATE [00:45:02] STORABLE FORMS OF ENERGY LIKE LIQUID [00:45:06] THAT COULD BE TURNED ON WHEN EFFECTIVELY [00:45:10] THE PRICE OF RENEWABLES OR PRICE OF GRID [00:45:13] ELECTRICITY IS NEGATIVE, THEN ALL OF A [00:45:16] SUDDEN YOU CREATE A FINANCING MECHANISM 100:45:181 THAT I THINK IS QUITE POSITIVE. BUT [00:45:20] AGAIN, IN NORTHERN [00:45:24] EUROPE THEY HAVE A FORCING FUNCTION IN [00:45:29] THE RUSSIAN INVASION OF UKRAINE THAT HAS [00:45:31] REALLY ACCELERATED RENEWABLES EXPANSION [00:45:33] IN THAT AREA AND SO IT'S CREATED THAT [00:45:34] DYNAMIC. THANKFULLY, WE DON'T HAVE THAT [00:45:37] FORCING FUNCTION HERE, BUT I DO THINK [00:45:39] TECHNOLOGICALLY IT'S POSSIBLE. AND SO [00:45:42] I'M VERY INTRIGUED AT THE POSSIBILITY OF [00:45:46] IN THAT EARLIER CHART WHERE YOU SHOWED [00:45:47] ALL THE RED BARS AND THEN YOU SHOWED [00:45:49] THAT UNLIMITED SUPPLY AND THE GREEN BAR [00:45:51] OF PTL. I THINK THERE'S REAL PROMISE [00:45:53] THERE AND WE SHOULD BE PAYING CLOSE [00:45:55] ATTENTION TO THAT. YES, SIR, [00:45:58] THANK YOU VERY MUCH. VERY GOOD COMMENT. [00:46:00] AND YOU'RE EXACTLY RIGHT ON THE ENERGY [00:46:02] STORAGE SIDE. YES, IT COULD BE [00:46:05] BATTERIES, IT COULD BE LIQUID, IT COULD [00:46:06] BE A LOT OF DIFFERENT THINGS THAT YOU [00:46:09] USE FOR THAT STORAGE OF THE ENERGY. [00:46:12] AND THAT IS WHERE WE WANT TO BE FOR [00:46:14] SURE, BECAUSE WE WON'T BE ABLE TO USE [00:46:16] ALL OF IT IF WE HAVE LIKE THEY HAVE IN [00:46:19] EUROPE IN OVERPRODUCTION OR [00:46:24] OVERPRODUCTION OF THAT RENEWABLE POWER. [00:46:27] AND THAT'S OKAY, THAT'S NOT A PROBLEM, [00:46:30] BUT IT'S A SITUATION WHERE YOU WANT TO [00:46:32] BE IN, THAT'S FOR SURE. OKAY, NEXT SLIDE [00:46:35] PLEASE. WE'VE GOT SOME MORE QUESTIONS [00:46:37] HERE. I'M SORRY. COMMISSIONER FELLEMAN, [00:46:42] THANK YOU VERY MUCH. THIS HAS BEEN [00:46:43] GREAT. I HAVE TWO QUESTIONS, ONE RELATED [00:46:47] TO THE DIFFERENT PRODUCTION COMING [00:46:50] ONLINE. I KEEP ON SEEING FULCRUM [00:46:53] BEING PUSHED FURTHER AND FURTHER TO THE [00:46:55] RIGHT AND WAS WONDERING IF YOU HAD ANY [00:46:58] INSIGHT ON THAT OR IF THERE ARE ANY [00:47:01] OTHER PRODUCERS THAT ARE LOOKING AT THE [00:47:05] USE OF MUNICIPAL SOLID WASTE. [00:47:11] YES, SIR. IF WE GO BACK TO [00:47:15] THE SLIDE ON PRODUCTION OR PRODUCTION, [00:47:18] PLEASE. YES, SIR. [00:47:22] WITH FULCRUM, THEY ARE ACTUALLY [00:47:25] PRODUCING NOW, BUT THEY'RE PRODUCING [00:47:31] WHAT THEY'RE GETTING OUT OF IT IS A [00:47:33] CRUDE OIL THAT THEY'RE THEN ACTUALLY [00:47:38] TAKING TO ANOTHER REFINERY FOR REFINING [00:47:41] INTO SUSTAINABLE AVIATION FUEL. [00:47:44] AND SO NONE IN THIS CHART, [00:47:47] BUT WE DO HAVE BECAUSE THEY WERE [00:47:50] ACTUALLY PRODUCING IN 2022, [00:47:53] THEY'RE ACTUALLY TO THE LEFT, WE'RE



[00:47:56] TALKING ABOUT THE SIERRA PROJECT IN
[00:47:58] NEVADA. THE FULCRUM THAT YOU SEE IN 2025
[00:48:01] IS THEIR CENTERPOINT PROJECT AT 31
[00:48:05] MILLION GALLONS. THAT'S THE SECOND ONE
[00:48:07] THAT THEY PLAN ON OPENING UP AND THAT'S
[00:48:10] IN THE CHICAGO METROLAND AREA.
[00:48:13] THANK YOU. ARE THEY THE ONLY COMPANY
[00:48:15] THAT'S PURSUING THIS? I SAW SOMETHING IN
[00:48:18] ENGLAND THAT THEY WERE JUST FEDERAL
[00:48:22] GOVERNMENT WAS PROVIDING SOME TAX
[00:48:24] INCENTIVES. I THOUGHT IT WSDOT
[00:48:26] SPECIFICALLY FOR MUNICIPAL SOLID WASTE,
[00:48:29] RIGHT? YES, SIR. THERE ARE A NUMBER OF
[00:48:32] OTHER COMPANIES THAT ARE OUT THERE
[00:48:34] LOOKING AT THIS LONZA TECH IS ONE OF
[00:48:38] THOSE THAT IT'S IN DEVELOPMENT WITH
[00:48:42] A COMPANY DOWN IN AUSTRALIA, AND THEY'RE
[00:48:44] ACTUALLY GOING TO BE USING BOTH
[00:48:47] MUNICIPAL SOLID WASTE AND CONSTRUCTION
[00:48:50] AND DEMOLITION WASTE IN ORDER TO USE
[00:48:53] THOSE FEEDSTOCKS. THIS PARTICULAR
[00:48:56] COMPANY IS ACTUALLY A CONSTRUCTION
[00:48:58] COMPANY, AND THEY'VE GOT A SPIN OFF TO
[00:49:00] MAKE THIS SUSTAINABLE AVIATION FUEL FROM
[00:49:03] THAT WASTE PRODUCT. THERE'S ANOTHER ONE
[00:49:06] THAT WE'VE BEEN IN TOUCH WITH CALLED
[00:49:09] WASTE FUELS, AND THEY ARE IN THE
•
[00:49:13] PROCESS OF DEVELOPING A PROJECT IN THE
[00:49:15] PHILIPPINES NEAR MANILA,
[00:49:19] WHERE THEY WILL ACTUALLY BE USING THAT
[00:49:23] MUNICIPAL SOLID WASTE THERE IN AMERICA.
[00:49:26] YES, THERE ARE A FEW THAT HAVE NOT
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE,
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE,
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[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET [00:49:46] THEIR, IT'S NOT REALLY A COP 27 GOAL, [00:49:49] RIGHT? THEY'RE NOT OBLIGATED BY THAT.
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET [00:49:46] THEIR, IT'S NOT REALLY A COP 27 GOAL, [00:49:49] RIGHT? THEY'RE NOT OBLIGATED BY THAT. [00:49:51] BUT I THOUGHT IN EUROPE, THEY HAVE SOME
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET [00:49:46] THEIR, IT'S NOT REALLY A COP 27 GOAL, [00:49:49] RIGHT? THEY'RE NOT OBLIGATED BY THAT. [00:49:51] BUT I THOUGHT IN EUROPE, THEY HAVE SOME [00:49:53] ACTUAL AVIATION. HOW FAR AWAY ARE WE
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET [00:49:46] THEIR, IT'S NOT REALLY A COP 27 GOAL, [00:49:49] RIGHT? THEY'RE NOT OBLIGATED BY THAT. [00:49:51] BUT I THOUGHT IN EUROPE, THEY HAVE SOME
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[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET [00:49:46] THEIR, IT'S NOT REALLY A COP 27 GOAL, [00:49:49] RIGHT? THEY'RE NOT OBLIGATED BY THAT. [00:49:51] BUT I THOUGHT IN EUROPE, THEY HAVE SOME [00:49:53] ACTUAL AVIATION. HOW FAR AWAY ARE WE [00:49:56] FROM WHAT IS FORECAST TO BE THE NEED? [00:50:01] SO WHAT YOU'RE REFERRING THERE TO, SIR,
[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET [00:49:46] THEIR, IT'S NOT REALLY A COP 27 GOAL, [00:49:49] RIGHT? THEY'RE NOT OBLIGATED BY THAT. [00:49:51] BUT I THOUGHT IN EUROPE, THEY HAVE SOME [00:49:53] ACTUAL AVIATION. HOW FAR AWAY ARE WE [00:49:56] FROM WHAT IS FORECAST TO BE THE NEED? [00:50:01] SO WHAT YOU'RE REFERRING THERE TO, SIR, [00:50:04] IS CORCIA. THAT'S THE CARBON
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[00:49:30] MADE ANY PUBLIC ANNOUNCEMENTS, BUT THERE [00:49:33] ARE SOME OTHER ONES THAT ARE LOOKING AT [00:49:35] MUNICIPAL SOLID WASTE, SIR. GREAT. AND [00:49:38] JUST ONE QUESTION. SO WHEN YOU LOOK AT [00:49:40] THE TOTAL PRODUCTION GOING ON HERE, [00:49:44] SO IN ORDER FOR THE AIRLINES TO MEET [00:49:46] THEIR, IT'S NOT REALLY A COP 27 GOAL, [00:49:49] RIGHT? THEY'RE NOT OBLIGATED BY THAT. [00:49:51] BUT I THOUGHT IN EUROPE, THEY HAVE SOME [00:49:53] ACTUAL AVIATION. HOW FAR AWAY ARE WE [00:49:56] FROM WHAT IS FORECAST TO BE THE NEED? [00:50:01] SO WHAT YOU'RE REFERRING THERE TO, SIR, [00:50:04] IS CORCIA. THAT'S THE CARBON [00:50:08] OFFSETTING REDUCTION SCHEME FOR [00:50:11] INTERNATIONAL AVIATION. AND SO ALL OF [00:50:18] SAID THAT THEY WILL ABIDE BY THAT RIGHT [00:50:24] MANDATORY PHASE WILL ACTUALLY COMMENCE [00:50:26] IN 2027. AND SO ANY [00:50:30] COUNTRY THAT'S DOING ANY INTERNATIONAL [00:50:32] AVIATION, AND OBVIOUSLY SEATTLE WILL BE [00:50:34] DOING A LARGE PORTION OF THAT GOING [00:50:42] ABIDE BY THAT AS WELL. [00:50:49] VERY PROMINENT IN EUROPE, BUT IT'S [00:50:50:53] ALSO PROMINENT IN EUROPE, BUT IT'S

#### Transcript of Study Session on Jun 13, 2023 9:00am



100:51:051 IS OUT THERE. AND SO A LOT OF THE [00:51:08] AIRLINES ARE BEING FACED WITH, IF I [00:51:11] DON'T USE STAFF, I HAVE TO [00:51:14] PAY SORT OF LIKE A PENALTY PER [00:51:18] MILE THAT THEY'RE DOING. AND SO THAT'S [00:51:21] WHERE THAT IS COMING INTO PLAY. AGAIN, [00:51:23] MANDATORY IN 2027, BUT JUST VOLUNTARY AT [00:51:27] THIS POINT. IF YOU LOOK AT 2025 [00:51:30] AS YOU HAVE IN THIS FORECAST OF 100:51:321 PRODUCTION. AND THIS IS JUST [00:51:36] US. PRODUCTION, RIGHT? THAT'S US. [00:51:39] RIGHT? THAT'S CORRECT. AND NESTY [00:51:41] PROBABLY EQUALS THAT UNTO ITSELF OR [00:51:43] SOMETHING LIKE THAT. BUT HOW [00:51:47] FAR OFF ARE WE FOR THAT 2027 GOAL? [00:51:53] IS IT 10%? WHAT IS [00:51:56] THAT 2027 GOAL FOR IN [00:52:00] TERMS OF PERCENTAGE? [00:52:05] THE PERCENTAGE I BELIEVE IS I [00:52:09] HAVE TO GO BACK AND CHECK, BUT I BELIEVE [00:52:10] IT'S 2% IN 2027. [00:52:14] BUT I'LL HAVE TO LOOK AT THAT AND GET [00:52:17] BACK TO YOU, SIR. OKAY, SO DOES IT EVEN [00:52:20] TO ACHIEVE 2%, DO WE HAVE THE PRODUCTION [00:52:22] ONLINE TO GET THERE? [00:52:27] WELL, THE 3 BILLION [00:52:30] GALLON GOAL THAT WE HAVE FOR 2030, [00:52:33] THAT'S 10% OF OUR TOTAL DOMESTIC [00:52:38] CONSUMPTION, AND THAT IS BOTH [00:52:40] INTERNATIONAL AND DOMESTIC FLIGHTS. [00:52:43] WHAT THE AMOUNT IS OF THE INTERNATIONAL [00:52:45] COMMUNITY, OF THAT 20 OF THAT 326 [00:52:49] BILLION GALLONS THAT'S BEING CONSUMED OF 100:52:521 THE TOTAL FOSSIL JET. I WOULD HAVE TO [00:52:55] DO SOME MORE RESEARCH ON FINDING OUT HOW [00:52:57] MUCH OF THAT IS ACTUALLY THE [00:52:58] INTERNATIONAL PERSPECTIVE, BUT VERY GOOD [00:53:01] POINT, SIR. THANK YOU. COMMISSIONER [00:53:03] MOHAMMED, I HAVE A QUICK QUESTION. [00:53:07] YOU EMPHASIZED INVESTING IN PROCURING [00:53:10] STAFF AND HOW IMPORTANT THAT IS FOR THE [00:53:13] AIRLINES AND THAT UNITED AIRLINES [00:53:16] HAS INVESTED IN THE INFRASTRUCTURE AND [00:53:19] THE FUEL IN LOS ANGELES. I'M WONDERING, [00:53:21] IS THE PURCHASING PRICE OF THAT FUEL [00:53:24] DIFFERENT FOR THE OTHER AIRLINES [00:53:26] OPERATING THERE? [00:53:30] NO. SO FOR THE OTHER AIRLINES THAT [00:53:33] ARE OPERATING THERE, THEY'RE PAYING [00:53:36] FOSSIL JET PRICES, SO THEY'RE NOT PAYING [00:53:39] ANY PREMIUM AT ALL. IT'S ONLY UNITED [00:53:42] THAT'S PAYING THE PREMIUM AND THEY'RE [00:53:44] ALSO THEN THE ONLY ONES THAT CAN CLAIM [00:53:46] THAT THEY'RE USING SUSTAINABLE AVIATION [00:53:48] FUEL FROM LAX, EVEN THOUGH IT'S GOING [00:53:51] INTO THE SAME TANK AND ALL OF THE [00:53:54] AIRLINES WILL BE UPLIFTING SOME [00:53:59] OF THOSE MOLECULES OF SAF. [00:54:01] THAT'S HELPFUL. THANK YOU. [00:54:07] THANK YOU. CHRIS, YOU CAN [00:54:10] CONTINUE. WE HAVE ABOUT NEXT SLIDE AND [00:54:13] WE WERE THEN GOING TO HAVE ANOTHER

[00:54:15] FERRIES OF QUESTIONS. WE'RE A LITTLE



[00:54:17] BEHIND ON OUR AGENDA, THAT'S FINE, BUT [00:54:20] CHRIS, IF YOU COULD GO THROUGH THOSE [00:54:21] LAST SIX OF YOUR PART RELATIVELY [00:54:24] QUICKLY, WE'LL STOP AGAIN FOR QUESTIONS [00:54:26] AND THEN WE'RE GOING TO MOVE INTO OUR [00:54:29] STRATEGY OF WHAT WE'RE ACTUALLY TAKING [00:54:31] IN TERMS OF ACTIONS. THANK YOU. [00:54:35] YES, MA'AM. YEAH, SO THIS PARTICULAR [00:54:37] SLIDE IS GOING TO THAT POINT THAT WAS 100:54:411 BROUGHT UP BEFORE ABOUT TRUCK THE [00:54:46] WOODY BIOMASS AND ALL THE DIFFERENT [00:54:49] FEEDSTOCKS FROM THE DIFFERENT AREAS. [00:54:52] THERE'S CERTAINLY A LOT OF FEEDSTOCKS [00:54:53] THAT ARE UP IN THE PACIFIC NORTHWEST. [00:54:55] THERE'S EVEN A LOT UP IN MAINE. [00:54:59] IN THE NORTHEAST CERTAINLY HAS A LOT UP [00:55:02] THERE AS WELL, TOO. BUT THEN GETTING [00:55:05] THAT TO AN AIRPORT THAT COULD USE IT, [00:55:09] LIKE NEW YORK IN THE CASE WITH MAINE, [00:55:12] THEN YOU'LL CERTAINLY HAVE A PART OF [00:55:15] THAT THAT YOU GOT TO WORRY ABOUT. THE [00:55:19] LONZA JET FACILITY THAT'S DOWN IN [00:55:22] GEORGIA THAT IS LOCATED ABOUT THREE HOUR [00:55:26] DRIVE FROM SOPERTON, GEORGIA UP TO [00:55:30] ATLANTA, WHICH IS OBVIOUSLY A VERY MAJOR [00:55:33] HUB. SO YES, YOU'D STILL HAVE TO TRUCK [00:55:36] IT. BUT THIS POINT OF THIS SLIDE IS THAT 100:55:401 THE SAP IS NOT PRODUCED EXACTLY WHERE [00:55:44] YOU NEED IT. THEY'RE NOT GOING TO BE [00:55:45] PRODUCING IT RIGHT NEXT TO THE AIRPORT [00:55:48] UNLESS YOU'RE OUT IN LA. AND ARE [00:55:50] PRODUCING IT AT PARAMOUNT AND THEY'VE [00:55:52] JUST PUT IT IN THE PIPELINE. ALL RIGHT, [00:55:54] NEXT SLIDE, PLEASE. [00:55:58] OKAY. THE POINT HERE IS THAT [00:56:03] WE HAVE TO MAKE SURE THAT IT MEETS ALL [00:56:05] THE JET A SPECIFICATIONS. AS I MENTIONED [00:56:08] TO YOU BEFORE, THERE ARE SEVEN DIFFERENT [00:56:10] ANNEXES. FIVE OF THEM ARE LIMITED TO A [00:56:13] 50 50 BLEND AND THERE'S TWO THAT ARE [00:56:16] LIMITED ONLY TO A 10% BLEND. [00:56:18] AND THAT'S JUST BECAUSE OF SOME OF THE [00:56:21] PROPERTIES WITHIN THAT STAFF THAT'S [00:56:24] BEING PRODUCED. SO AT [00:56:28] AN AIRPORT OR BEFORE AN AIRPORT IS WHERE [00:56:30] YOU HAVE TO BLEND BOTH YOUR JET A, YOUR [00:56:33] FOSSIL AND YOUR STAFF TOGETHER AND [00:56:38] IT COULD BE A COUPLE OF DIFFERENT WAYS [00:56:40] OF DOING THAT, BLENDING. BUT THEN THEY [00:56:42] PUT IT INTO THE PIPELINE, IT GETS TO THE [00:56:44] AIRPORT TANK FARM AND THEN TO THE WING [00:56:47] OF THE PLANE. WE DO HAVE SOME PATHWAYS [00:56:51] THAT HAVE BEEN IDENTIFIED BUT NOT YET [00:56:53] APPROVED FOR A FULLY SYNTHETIC SAF. SO [00:56:57] THAT THEY COULD USE 100% SAF WITH NO [00:57:00] FOSSIL COMPONENT WHATSOEVER. AND THAT'S [00:57:03] SORT OF WHERE WE WANT TO BE FOR SURE IN [00:57:05] 2050. WE HOPE THAT THE AMERICAN SOCIETY [00:57:09] OF TESTING AND MATERIALS TASK FORCE [00:57:11] THAT'S NOW STOOD UP FOR LOOKING AT THAT, [00:57:14] HOPEFULLY THEY'LL HAVE A PATHWAY OR TWO [00:57:19] THAT'S APPROVED IN THE NEXT TWO, [00:57:22] POSSIBLY TWO OR THREE YEARS FROM NOW.



100:57:261 SO THAT'S CERTAINLY GOING TO HELP US TO [00:57:29] GET TO OUR GOALS FOR SURETY. ALL RIGHT, [00:57:31] NEXT SLIDE. [00:57:37] OKAY, SO THIS IS BASICALLY HOW [00:57:43] WE'RE LOOKING AT OUR LIFE CYCLE CARBON [00:57:45] EMISSIONS. WHEN YOU THINK ABOUT ON THE [00:57:48] LEFT, HOW THE NORMAL FOSSIL INDUSTRY [00:57:52] WORKS, WHERE YOU'RE EXTRACTING THE CRUDE [00:57:55] OIL, YOU'RE TRANSPORTING IT TO A [00:57:57] REFINERY, THEN YOU'RE TRANSPORTING [00:58:02] IT TO WHERE YOU NEED TO FOR YOUR [00:58:05] AIRPORTS COMPARED TO THE STAFF. [00:58:10] AND THAT'S MORE CYCLICAL WHERE YOU MAY [00:58:12] BE GROWING SOME FEEDSTOCKS, [00:58:15] YOU'RE TRANSPORTING IT, YOU'RE [00:58:17] PROCESSING IT AND REFINING IT, GETTING [00:58:19] IT TO THE AIRPORT, AND THEN OUT OF THE [00:58:22] TAILPIPE OF AN AIRCRAFT CERTAINLY COMES [00:58:25] CO2. THAT IS THEN HELPING TO FEED [00:58:29] THOSE FEEDSTOCKS THAT YOU'VE BEEN [00:58:31] GROWING. AND SO WHEN YOU LOOK AT THE [00:58:34] FULL LIFECYCLE, INCLUDING ALL THAT [00:58:36] TRANSPORT AND PROCESSING, ET CETERA, [00:58:38] THE LIFECYCLE GREENHOUSE GAS EMISSION [00:58:41] PROFILE IS SIGNIFICANTLY [00:58:45] REDUCED WHEN YOU COMPARE IT TO THE [00:58:48] PETROLEUM BASED JET FUEL. [00:58:52] OKAY, NEXT SLIDE. [00:58:57] WE WANT TO ALSO SHOW YOU WHEN I WAS [00:59:00] MENTIONING ANYWHERE FROM 50% TO 80% [00:59:02] REDUCTION. THESE ARE THE DIFFERENT TYPES [00:59:05] OF PART OF THOSE PATHWAYS. WHEN YOU [00:59:08] COMPARE IT TO THE VERY TOP THERE THE 100:59:101 CRUDE TO CONVENTIONAL JET FUEL. [00:59:13] THAT'S WHERE WE HAVE TO COMPARE [00:59:15] OURSELVES TO. WHEN YOU LOOK AT THE TOTAL [00:59:18] AMOUNT OF LIFE CYCLE GREENHOUSE GAS [00:59:20] EMISSIONS, YOUR GRAMS PER CO2 EQUIVALENT [00:59:26] PER MEGAJOULE, THAT'S BASICALLY HOW [00:59:29] THEY'RE LOOKING AT THAT. SO YOU CAN SEE [00:59:31] WHERE IN SOME OF THE CASES WE DO HAVE UP [00:59:35] TO AN 80% REDUCTION. [00:59:39] AND THEN IF WE ALSO THEN LOOK AT CASES [00:59:44] WHERE YOU'RE USING THAT RENEWABLE [00:59:46] ENERGY, THEN YOU COULD HAVE EVEN [00:59:48] GREATER. AND IN SOME CASES SOME OF THOSE [00:59:50] ARE GOING TO BE CLAIMING AN ACTUAL [00:59:54] NEGATIVE GREENHOUSE GAS REDUCTION, [00:59:57] WHICH IS A REALLY GOOD THING. I ALSO [00:59:59] WANTED TO POINT OUT TOO THAT SAF WILL [01:00:02] BURN CLEANER, WHICH ACTUALLY REDUCES THE [01:00:05] CONTRAILS AT HIGHER ALTITUDES. SORRY FOR [01:00:13] THE MISSPELLING THERE, BUT YEAH, AT [01:00:14] HIGHER ALTITUDES WE COULD ACTUALLY [01:00:17] REDUCE CONTRAILS. OKAY, NEXT SLIDE [01:00:20] PLEASE. AND THEN [01:00:23] OVERALL, WHEN YOU LOOK ACROSS THE BOARD [01:00:25] AT YOUR SOCKS AND YOUR [01:00:29] PARTICLES THAT YOU ARE TRYING TO REDUCE, [01:00:33] OBVIOUSLY WHEN YOU HAVE A 50% BLEND, [01:00:36] YOU'RE ABLE TO REDUCE IT QUITE A BIT. [01:00:38] AND THEN YOU ALSO HAVE THE OTHER CARBON [01:00:41] MONOXIDE CARBON DIOXIDE. AND YOUR NOX



[01:00:46] CERTAINLY HAS A PLAY IN IT, BUT IT'S
[01:00:48] MAINLY A SOX AND THE PARTICULATE MATTER
[01:00:51] THAT WE'RE TRYING TO REDUCE OVERALL WITH
[01:00:55] OUR STAFF. OKAY, NEXT SLIDE PLEASE.
[01:01:01] OKAY, SO WE CAFFEINE HAVE BEEN WORKING
[01:01:05] ACROSS THE BOARD WITH MANY PEOPLE THAT
[01:01:07] HAVE BEEN ENABLING THE EXPANSION OF THE
[01:01:10] SAP INDUSTRY. AS I MENTIONED, CERTAINLY
[01:01:13] THE AIRLINES, BUSINESS, AVIATION, AND
[01:01:16] THEN EVEN FREIGHT UPS, FEDEX, THEY'RE
[01:01:19] ALSO WORKING TO PURCHASE AND
[01:01:23] TRY TO FUND AS MUCH OF THE EXPENSES AS
[01:01:27] THEY POSSIBLY CAN. IT CERTAINLY IS A BIG
[01:01:30] PART, IS A POLICY ASPECT FROM
[01:01:34] THE INTERNATIONAL PERSPECTIVE ALL THE
[01:01:36] WAY DOWN TO THE STATE AND REGIONAL.
[01:01:38] WHEN YOU'RE LOOKING AT THAT ACROSS THE
[01:01:40] BOARD, THERE ARE A NUMBER OF DIFFERENT
[01:01:42] NONPROFITS AND OTHER COALITION GROUPS
[01:01:45] THAT ARE WORKING. LIKE FOR INSTANCE,
[01:01:47] BREAKTHROUGH ENERGY IS CERTAINLY OUT
[01:01:50] THERE AS WELL, WHICH IS NICE. AND THEN
•
[01:01:53] SOME PRODUCERS AND EVEN THE AIRLINES ARE
[01:01:57] ACTUALLY HELPING TO EXPAND
[01:02:01] THAT ACROSS THE BOARD. THEY REALIZE THAT
[01:02:03] THERE IS A HUGE DEMAND IN A VERY SMALL
[01:02:07] SUPPLY SO THEY KNOW THAT THEY
[01:02:11] CAN FILL IT. AND FOR SOME OF THOSE
[01:02:13] PRODUCERS THAT ARE OUT THERE,
[01:02:16] EVEN THOUGH THEY MAY NOT HAVE ANY STEEL
[01:02:18] IN THE GROUND AS OF YET, ONCE THEY DO
[01:02:22] ONCE THEY DO GET SOME SOME PRODUCTION
[01:02:24] GOING, EVERYBODY'S GOING TO GET A
[01:02:26] CONTRACT. AND THAT'S A BEAUTIFUL THING.
[01:02:28] AND THAT'S WHAT I TELL ALL OF THE PEOPLE
[01:02:30] OUT THERE PRODUCING NOW, IS THAT THERE
[01:02:32] IS NO COMPETITION. WE SHOULD HAVE A LOT
[01:02:35] OF COLLABORATION GOING ON BECAUSE
[01:02:37] EVERYBODY'S GOING TO GET A CONTRACT
[01:02:39] ACROSS THE BOARD. OKAY, NEXT SLIDE
[01:02:43] PLEASE. OKAY, SO BOTTOM
[01:02:47] LINE, YOU CAN READ THIS, I DON'T NEED TO
[01:02:49] READ IT TO YOU, BUT I WANT TO JUST POINT
[01:02:52] OUT THAT WE DO DEFINITELY THERE WITH A
[01:02:55] FOURTH MAJOR BULLET POINT DOWN. WE NEED
[01:02:57] MORE PRODUCTION QUICKLY AND BASICALLY
[01:03:01] IN ORDER TO GET TO OUR GOALS, WE NEED TO
[01:03:03] DOUBLE OUR PRODUCTION CAPACITY EACH YEAR
[01:03:06] IN ORDER TO GET THERE. AND PART OF THAT
[01:03:09] IS GOING TO BE COMING FROM THE AMOUNT OF
[01:03:12] POLICIES THAT ARE THERE TO HELPING TO
[01:03:14] BRING DOWN THAT PRICE. AND CERTAINLY
[01:03:14] BRING DOWN THAT PRICE. AND CERTAINLY [01:03:17] THERE IS SOME CAPITAL EXPENDITURES
[01:03:17] THERE IS SOME CAPITAL EXPENDITURES
[01:03:17] THERE IS SOME CAPITAL EXPENDITURES [01:03:21] THAT NEED TO BE PUT OUT THERE. THEY ARE
[01:03:17] THERE IS SOME CAPITAL EXPENDITURES [01:03:21] THAT NEED TO BE PUT OUT THERE. THEY ARE [01:03:25] WORKING ON TRYING TO REDUCE THEIR
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[01:03:17] THERE IS SOME CAPITAL EXPENDITURES [01:03:21] THAT NEED TO BE PUT OUT THERE. THEY ARE [01:03:25] WORKING ON TRYING TO REDUCE THEIR [01:03:26] OPERATIONAL EXPENSES, TRYING TO MAKE [01:03:29] THINGS MORE EFFICIENT AND THEN OF COURSE [01:03:32] INCORPORATING RENEWABLE ENERGY INTO THAT [01:03:35] OVERALL OPERATION OF THEIR PLANTS AS
[01:03:17] THERE IS SOME CAPITAL EXPENDITURES [01:03:21] THAT NEED TO BE PUT OUT THERE. THEY ARE [01:03:25] WORKING ON TRYING TO REDUCE THEIR [01:03:26] OPERATIONAL EXPENSES, TRYING TO MAKE [01:03:29] THINGS MORE EFFICIENT AND THEN OF COURSE [01:03:32] INCORPORATING RENEWABLE ENERGY INTO THAT [01:03:35] OVERALL OPERATION OF THEIR PLANTS AS [01:03:37] WELL. TOO. OKAY, NEXT SLIDE. AND I
[01:03:17] THERE IS SOME CAPITAL EXPENDITURES [01:03:21] THAT NEED TO BE PUT OUT THERE. THEY ARE [01:03:25] WORKING ON TRYING TO REDUCE THEIR [01:03:26] OPERATIONAL EXPENSES, TRYING TO MAKE [01:03:29] THINGS MORE EFFICIENT AND THEN OF COURSE [01:03:32] INCORPORATING RENEWABLE ENERGY INTO THAT [01:03:35] OVERALL OPERATION OF THEIR PLANTS AS [01:03:37] WELL. TOO. OKAY, NEXT SLIDE. AND I [01:03:40] BELIEVE WE'RE OPEN FOR QUESTIONS AT THIS
[01:03:17] THERE IS SOME CAPITAL EXPENDITURES [01:03:21] THAT NEED TO BE PUT OUT THERE. THEY ARE [01:03:25] WORKING ON TRYING TO REDUCE THEIR [01:03:26] OPERATIONAL EXPENSES, TRYING TO MAKE [01:03:29] THINGS MORE EFFICIENT AND THEN OF COURSE [01:03:32] INCORPORATING RENEWABLE ENERGY INTO THAT [01:03:35] OVERALL OPERATION OF THEIR PLANTS AS [01:03:37] WELL. TOO. OKAY, NEXT SLIDE. AND I [01:03:40] BELIEVE WE'RE OPEN FOR QUESTIONS AT THIS [01:03:42] POINT. YEAH, FIRST I WOULD LOVE TO JUST
[01:03:17] THERE IS SOME CAPITAL EXPENDITURES [01:03:21] THAT NEED TO BE PUT OUT THERE. THEY ARE [01:03:25] WORKING ON TRYING TO REDUCE THEIR [01:03:26] OPERATIONAL EXPENSES, TRYING TO MAKE [01:03:29] THINGS MORE EFFICIENT AND THEN OF COURSE [01:03:32] INCORPORATING RENEWABLE ENERGY INTO THAT [01:03:35] OVERALL OPERATION OF THEIR PLANTS AS [01:03:37] WELL. TOO. OKAY, NEXT SLIDE. AND I [01:03:40] BELIEVE WE'RE OPEN FOR QUESTIONS AT THIS



101:03:481 BEFORE WE GO INTO MORE QUESTIONS AND [01:03:50] TAKING THE TIME TO GIVE YOU THIS [01:03:52] HOLISTIC BACKGROUND OF WHAT'S HAPPENING [01:03:55] WITH SUSTAINABLE AVIATION FUEL. [01:03:58] THE NEXT SECTION BEFORE WE DO QUESTIONS, [01:04:01] THE NEXT SECTION OF THE PRESENTATION [01:04:03] WILL BE GOING INTO OUR COLLABORATION, [01:04:05] RESEARCH AND POLICIES, [01:04:08] STATE AND FEDERAL POLICIES ON WHAT WE'RE [01:04:10] DOING TO HELP WITH THE PRODUCTION OF [01:04:12] STAFF. BUT THIS WOULD BE A PAUSE TO ASK [01:04:16] CHRIS OR THE TEAM ANY QUESTIONS ON WHAT [01:04:19] YOU'VE HEARD UP UNTIL NOW. [01:04:22] THANK YOU COMMISSIONER CALKINS AT [01:04:27] RISK OF EXCITING THE TINFOIL HAT CROWD. [01:04:29] I AM CURIOUS ABOUT THE CONTRAILS [01:04:31] IMPACTS. I THINK IT WAS ACTUALLY AN [01:04:33] ALASKA AIRLINES DOCUMENT THAT I READ AT [01:04:37] SOME POINT ABOUT THEIR EFFORTS TO REDUCE [01:04:40] GLOBAL WARMING THAT MENTIONED THAT [01:04:42] CONTRAILS MIGHT BE UP TO 50% OF THE [01:04:46] CAUSE OF WARMING. IT'S DIRECT WARMING [01:04:48] BECAUSE IT LITERALLY IS CREATING MORE OF [01:04:50] A GREENHOUSE EFFECT. AND I KNOW THAT THE [01:04:53] EFFORTS INITIALLY WERE HOW DO WE PREVENT [01:04:56] PLANES FROM CREATING CONTRAILS BECAUSE [01:04:58] IT'S THIS PERFECT MIXTURE OF THE 101:05:001 EMISSIONS COMING OUT OF THE TAILPIPE. [01:05:02] BUT ALSO THE CONDITIONS IN THE AIR. AND [01:05:05] SO IF YOU DEVIATE LOWER ALTITUDE, [01:05:08] RAISED ALTITUDE, SOMETHING, YOU CAN [01:05:10] USUALLY PREVENT THEM FROM HAPPENING OR [01:05:12] STOP THEM FROM HAPPENING AT THE TIME. [01:05:15] BUT WHAT YOU'RE TALKING ABOUT HERE IS [01:05:17] POTENTIALLY JUST A FUEL THAT BURNS [01:05:20] CLEANER, SO IT'S NOT PRODUCING THE [01:05:21] PARTICULATE THAT CREATES THE DROPLETS IN [01:05:24] THE FIRST PLACE. SO I'D LOVE TO HEAR A [01:05:26] LITTLE BIT MORE ABOUT THAT AND HOW MUCH [01:05:28] POTENTIAL THERE IS FOR THAT. AND THEN [01:05:30] THE OTHER QUESTION I HAVE IS THINKING [01:05:34] ABOUT AND THIS MIGHT GET KICKED TO THE [01:05:37] NEXT CONVERSATION, BUT AS WE'RE THINKING [01:05:39] ABOUT POLICY, I'M REALLY CURIOUS TO KNOW [01:05:42] HOW MUCH POTENTIAL THERE IS FOR [01:05:44] DIVERSION, EITHER DOMESTICALLY OR [01:05:46] INTERNATIONALLY. IF WE TAKE A VERY [01:05:48] STRONG POSITION AROUND USING SAF AND A [01:05:52] COMPETING AIRPORT DOESN'T, ARE WE GOING [01:05:55] TO LOSE COMMERCIAL VIABILITY [01:05:58] BECAUSE, HEY, I CAN BUY MY JET FUEL [01:06:01] CHEAPER THERE, AND SO THEREFORE I'M [01:06:03] GOING TO CHOOSE A ROUTE THERE OR I'M NOT [01:06:04] GOING TO FILL UP OR I'M ONLY GOING TO [01:06:06] FILL UP WHAT I NEED. AND SO THEREFORE, [01:06:07] WE END UP JUST SORT OF PUSHING THE [01:06:09] PROBLEM AWAY, AS WE'VE SEEN ON THE [01:06:12] MARITIME SIDE WITH SOME OF OUR [01:06:13] ENVIRONMENTAL INITIATIVES. [01:06:16] SO LET ME ANSWER, OR ATTEMPT TO ANSWER [01:06:20] THE QUESTION, THE LAST ONE FIRST, AND [01:06:22] THAT IS WHEN YOU'RE TALKING ABOUT [01:06:24] COMPETITION, WHEN YOU'RE TALKING ABOUT



[01:06:26] ESPECIALLY FOR INTERNATIONAL AVIATION. [01:06:29] THINK ABOUT THE AIRPORTS THAT ARE AROUND [01:06:31] YOU. VANCOUVER CERTAINLY IS [01:06:35] ONE OF THOSE. AND I COVID TELL YOU THAT [01:06:37] BRITISH COLUMBIA AND CANADA WRIT LARGE [01:06:40] IS WORKING ON SUSTAINABLE AVIATION FUEL [01:06:43] INITIATIVES ALSO. AND BRITISH [01:06:47] COLUMBIA DOES HAVE A LOW CARBON FUEL [01:06:50] PROGRAM THAT CERTAINLY IS VERY HELPFUL. 101:06:531 AND SO THEY ARE NOT KICKING IT [01:06:56] DOWN THE ROAD OR THEY'RE NOT SAYING, OH [01:06:58] YEAH, WE'RE NOT GOING TO DO THAT. THEY [01:07:00] ARE ACTUALLY TAKING THAT ON FIRSTHAND. [01:07:05] AND I THINK THAT MOST OF THE DOMESTIC [01:07:08] AIRPORTS ARE REALLY LOOKING AT THIS [01:07:11] REALLY HARD, AND THEY'RE [01:07:15] LOOKING AT IT FROM THE STANDPOINT THAT [01:07:18] YOU HAVE TO REMEMBER THAT THE AIRLINES [01:07:20] ARE THE ONES ULTIMATELY PAYING FOR THEIR [01:07:22] JET FUEL, AND SO THEY'RE THE ONES WHO [01:07:24] ARE PAYING FOR THE STAFF AND ANY DELTA [01:07:27] THAT MAY BE THERE. AND THEY'VE ALL [01:07:30] SOMEWHAT COMMITTED TO THAT. AND THE ONES [01:07:33] THAT YOU MENTIONED AND WE'VE MENTIONED [01:07:35] ALREADY, UNITED, ALASKA, [01:07:37] DELTA, AMERICAN, ALL THE MAJOR AIRLINES [01:07:42] ARE ACTUALLY SAYING AND HAVE ALREADY 101:07:461 DONE SOME OFFTAKE AGREEMENTS WITH SOME [01:07:48] OF THE TECHNOLOGY PROVIDERS THAT ARE OUT [01:07:50] THERE. SO I THINK THAT'S CERTAINLY GOOD. [01:07:52] IN RELATION TO YOUR QUESTION ABOUT [01:07:55] CONTRAILS, THE AMOUNT OF [01:07:59] PARTICULATES COMING OUT OF THE TAILPIPE [01:08:00] CERTAINLY ARE THE MAJOR PART OF THAT. [01:08:02] AND YES, IF YOU HAVE A SYNTHETIC [01:08:04] HYDROCARBON THAT BAKE IS BASICALLY [01:08:08] MAKING FROM THE GROUND UP, [01:08:11] THEY ARE CLEANER, AND SO THEY'RE CLEANER [01:08:14] BURNING AND SO YOU WOULD HAVE LESS [01:08:16] CONTRAILS. CAN WE ELIMINATE THEM [01:08:18] COMPLETELY? PERSONALLY, I DON'T THINK [01:08:21] SO. IT DEPENDS ON THE ATMOSPHERE THAT [01:08:23] YOU'RE FLYING THROUGH. IT DEPENDS ON THE [01:08:25] ALTITUDE OF THE JET STREAM, ET CETERA, [01:08:27] ET CETERA. SO ELIMINATING THEM [01:08:30] COMPLETELY USING SAF? NO, I DON'T THINK [01:08:34] THAT'S AND I DON'T WANT TO BE I DON'T [01:08:37] WANT TO BE WRONG ON THAT. BUT IT WILL [01:08:39] REDUCE IT GO TO ZERO? I DON'T THINK SO. [01:08:44] COMMISSIONER FELLEMAN. THANKS AGAIN. [01:08:48] I'M LOOKING AT THE GRAPHIC ON PAGE, [01:08:53] HARD TO READ THE ONE THAT SHOWS THE [01:08:56] LIFECYCLE OF GHG REDUCTIONS WITH CEPH. [01:09:01] THE ONE WITH THE RED CIRCLE? YES. TWO [01:09:03] THINGS OF QUESTION. ONE IS. WHERE IS [01:09:06] MSW? AND THE OTHER ONE IS WHY IS ALGAE [01:09:10] SO INTENSE? [01:09:18] I DON'T KNOW WHY MSW IS NOT ON HERE [01:09:21] UNLESS I'M MISSING IT. THE REASON FOR [01:09:24] THE ALGAE IS THAT WE [01:09:27] KNOW THAT WHEN YOU ARE PRODUCING ALGAE [01:09:31] AND THE ALGAE OIL, THE AMOUNT OF ACTUAL [01:09:34] CRUDE ALGAE OIL THAT YOU'RE GETTING PER



101:09:371 ACRE IS QUITE HIGH COMPARED TO AN OIL [01:09:41] FEEDSTOCK LIKE CAMELAN OR CARINATA. [01:09:45] THE PROBLEM THAT YOU GET WHEN YOU GO TO [01:09:47] HIGHER AND HIGHER SCALES, ESPECIALLY [01:09:49] WHEN YOU'RE LOOKING AT PATHWAYS OR THE [01:09:55] ACTUAL PATHWAYS [01:09:59] THAT THEY'RE GROWING THE ALGAE IN, [01:10:01] THAT'S SUBJECT TO A LOT OF PESTS [01:10:05] BIRDS. AND SO YOU YOU HAVE TO WORRY [01:10:09] ABOUT THOSE PARTICULAR PATHWAYS BECOMING [01:10:13] JUST BECOMING A PROBLEM [01:10:17] FOR GETTING OUT ALL OF THE STUFF THAT'S [01:10:20] GOING IN THERE BECAUSE IT'S STUFF THAT [01:10:22] MAY FALL OUT OF THE SKY. IF YOU'RE [01:10:24] TALKING ABOUT AN OPEN POND PATHWAY, IN [01:10:27] SOME CASES THEY'RE USING PLASTIC [01:10:31] BAGS AND THEY'RE USING THAT. [01:10:33] THE OTHER PROBLEM WITH ALGAE IS YOU [01:10:37] DO HAVE TO HAVE A CO2 SOURCE IN ORDER TO [01:10:40] HELP FOR THE ALGAE TO GROW. [01:10:43] SO IN SOME CASES I SAW IN JAPAN, [01:10:46] THEY'RE LOCATING THEM NEXT TO A POWER [01:10:48] PLANT AND THEY'RE USING THOSE POWER [01:10:50] PLANT GASES IN ORDER TO FEED THE ALGAE [01:10:53] POND AND THEREFORE GROW SOME ALGAE, [01:10:57] WHICH IS A GOOD THING. BUT YES, IT'S A [01:10:58] VERY WIDE RANGE. YOU'RE EXACTLY RIGHT, [01:11:01] BUT IT JUST DEPENDS ON HOW THEY'RE [01:11:03] GETTING THAT ALGAE OIL. I CAN'T HELP BUT [01:11:07] ACKNOWLEDGE THE IRONY OF NEEDING THE CO2 [01:11:09] TO PRODUCE THE CEPH. DO YOU [01:11:13] HAVE ANY GUESS THERE ABOUT WHERE MSW [01:11:15] WOULD FIT INTO THAT CURVE? I CAN [01:11:19] SPEAK TO THAT BRIEFLY, JUST THINKING [01:11:21] ABOUT THE CARBON INTENSITY SCORE THAT I [01:11:24] KNOW THAT FULCRUM HAS APPLIED WHEN [01:11:26] THEY'VE BEEN PUTTING IN APPLICATIONS FOR [01:11:29] THEIR CARBON INTENSITY SCORE FOR THE LOW [01:11:31] CARBON FUEL STANDARD. AGAIN, [01:11:34] THE PROCESS IS AN ISSUE HERE. [01:11:37] THE MORE YOU CAN GET ALL OF THE PLASTICS [01:11:39] OUT AND ANYWAYS, PLASTICS THAT HELPS [01:11:42] YOUR CARBON INTENSITY SCORE, SO THEY [01:11:44] HAVE APPLIED FOR I THINK A CARBON [01:11:46] INTENSITY SCORE THAT IS IN THE 75% [01:11:49] REDUCTION RANGE. [01:11:52] AGAIN, EVERY FACILITY DEPENDING ON HOW [01:11:55] CLOSE THE FEEDSTOCK IS, WHETHER THEY CAN [01:11:58] GET ALL THE PLASTICS OUT, WHETHER THEY, [01:12:00] YOU KNOW, WHERE IT ALL COMES FROM, [01:12:01] IMPACTS THAT SCORE, HOW MUCH [01:12:03] TRANSPORTATION, BUT FROM MY [01:12:05] UNDERSTANDING OF FULCRUM'S APPLICATION [01:12:07] IT'S IN THAT 75% REDUCTION RANGE. AND I [01:12:09] DON'T KNOW CHRIS, IF YOU'VE GOT MORE TO [01:12:11] ADD TO THOSE SCORES, YEAH, [01:12:14] I THINK THAT'S CORRECT FOR SURE. AND [01:12:19] WE'LL MAKE SURE WE GET ACCURATE DATA ON [01:12:22] THIS ONE FOR FUTURE, BUT THANK YOU. [01:12:27] I THINK PROBABLY OUR FOLLOWING [01:12:28] CONVERSATION IS GOING TO BE A LOT ABOUT

[01:12:29] PRICE AND THINGS LIKE THIS.

[01:12:32] BUT WHAT I UNDERSTAND IS THAT IN THE



101:12:351 COURSE OF PRODUCING SAF YOU'RE PRODUCING [01:12:38] RENEWABLE DIESEL WHICH IS MORE THE [01:12:39] PROFIT CENTER. AND THAT IF THERE WAS A [01:12:45] LARGE UPTAKE AGREEMENT TO MEET THIS [01:12:47] DEMAND THAT THE DIESEL COULD HELP GET [01:12:51] THE NET COST DOWN. AND I WAS JUST [01:12:53] WONDERING HOW MUCH POLICIES [01:12:57] HAVE BEEN DEVELOPED, HOW MUCH AIRLINES [01:13:00] HAVE BEEN ACTUALLY TAKING ADVANTAGE OF 101:13:011 THE POLICIES THAT HAVE BEEN DEVELOPED AS [01:13:05] WELL AS DOING THIS COMBINATION OF [01:13:07] RENEWABLE DIESEL AS WELL AS SAF. SO I [01:13:10] MIGHT ASK THAT WE HOLD THAT QUESTION [01:13:13] BECAUSE I THINK WE'RE GOING TO START [01:13:14] GETTING INTO QUESTIONS RELATED TO THE [01:13:16] NEXT SET OF PRESENTATIONS. COMMISSIONER [01:13:18] MOHAMED. THANK YOU. I HAVE A QUICK [01:13:20] QUESTION. THIS IS ONE THAT I FEEL LIKE [01:13:22] OFTEN COMES UP. THE COMPREHENSIVE [01:13:24] ANALYSIS THAT'S CONSIDERED FOR THE [01:13:25] ENTIRE SUPPLY CHAIN. IS THAT, CHRIS, [01:13:29] SOMETHING THAT YOU GUYS ARE LOOKING INTO [01:13:31] OR TRACKING? WHAT THE TRANSPORTATION [01:13:33] METHODS ARE WHEN EMPLOYED, [01:13:37] THE FEEDSTOCK DELIVERY, WHAT ARE THE [01:13:40] ASSOCIATED EMISSION OR ENVIRONMENTAL [01:13:42] CONSIDERATION THAT'S GIVEN THERE 101:13:461 CERTAINLY YEAH, WE'RE NOT NECESSARILY [01:13:48] TRACKING THAT, BUT EACH INDIVIDUAL [01:13:49] COMPANY DOES DO THAT BECAUSE THEY KNOW [01:13:52] THAT IT'S GOING TO HARM THEIR PARTICULAR [01:13:56] CARBON INTENSITY SCORE. SO IN A LOT OF [01:13:59] CASES WITH WOOD WASTE AND WOOD PRODUCTS [01:14:04] THEY WANT TO SORT OF PUT THEIR [01:14:06] BIOREFINERY IN AN AREA THAT IS WHERE [01:14:10] THEY'RE ABLE TO GET TO FEEDSTOCKS AND [01:14:13] YOU SORT OF DRAWING A CIRCLE, MAYBE IT [01:14:15] HAS ABOUT A 35 MILES RADIUS AND SO ALL [01:14:19] OF THE DIFFERENT WOOD COMES FROM THAT [01:14:21] PARTICULAR CIRCLE, AS IT WERE. [01:14:25] AND SO YOU ALSO WANT TO MAKE SURE YOU'RE [01:14:27] CLOSE TO A RAIL LINE SO THAT YOU COULD [01:14:30] ACTUALLY GET SOME OF THAT WOOD PRODUCTS [01:14:34] IN VIA RAIL. AND THEN ONCE YOU'RE [01:14:37] ACTUALLY PRODUCING THE FUEL, YOU'RE [01:14:39] PUTTING IT ON A RAIL CAR AND YOU'RE [01:14:41] SHIPPING IT OUT TO AN AIRPORT OR [01:14:45] TO THE PIPELINE SOMEWHERE. SO THEY DO [01:14:48] LOOK AT THAT. YES. AND COMMISSIONER [01:14:50] MOHAMMED, ONE POINT OF CLARIFICATION IS [01:14:52] THAT THAT CARBON INTENSITY SCORE THAT WE [01:14:54] TALKED ABOUT, THAT IS THE REGULATORY [01:14:57] MECHANISM THAT THE PRODUCERS USE TO [01:14:59] GENERATE THE FINANCIAL CREDITS. AND SO [01:15:03] THAT CARBON INTENSITY SCORE METHODOLOGY [01:15:06] IS SET DOWN IN REGULATION LIKE IN THE [01:15:08] LOW CARBON FUEL STANDARD OR IN OUR CLEAN [01:15:10] FUEL STANDARD. SO THERE IS A WHOLE [01:15:12] AUDITING PROCEDURE FOR MAKING SURE THAT [01:15:14] EACH PART OF THAT. CARBON INTENSITY [01:15:16] SCORE PATHWAY IS FOLLOWING THAT [01:15:18] PROCEDURE AND ENSURING THAT THEY CAN'T

[01:15:20] QUALIFY FOR THOSE INCENTIVES UNTIL ALL



[01:15:23] OF THAT IS MET. AND THEN I JUST HAVE ONE [01:15:26] QUICK QUESTION FOR SANDRA, STEPHANIE, [01:15:28] AND SARAH. [01:15:34] IF OTHER AIRPORTS AREN'T NECESSARILY [01:15:37] PROVIDING STAFF, THEN ARE OUR STAFF [01:15:42] USE GOALS AND OUR REDUCTIONS [01:15:44] CALCULATIONS BASED UPON OUTGOING FLIGHTS [01:15:47] ONLY BECAUSE WE'RE FUELING UP HERE AT [01:15:50] SCA? YES. SO THE WAY THAT THE **[01:15:55] CALCULATIONS RELATE TO THE INVENTORY** [01:15:57] THAT I SHOWED AT THE VERY BEGINNING OF [01:15:59] OUR PRESENTATION, THAT'S ALL BASED ON [01:16:02] EMISSIONS ASSOCIATED WITH OUR AIRPORT [01:16:04] AND FUELING UPLIFTED HERE. SO IF YOU [01:16:07] FUELED IN LOS ANGELES AND LANDED HERE ON [01:16:09] SAF, IT DOESN'T GET COUNTED IN OUR [01:16:11] SCORE. AND WE'RE ACTUALLY WORKING WITH [01:16:13] AN INTERNATIONAL GROUP OF AIRLINES, [01:16:15] AIRPORTS SORRY TO TALK ABOUT HOW [01:16:17] AIRPORTS ARE REFLECTING THIS IN THE [01:16:19] INVENTORIES, BECAUSE, AGAIN, WE DON'T [01:16:21] OWN OR CONTROL THOSE EMISSIONS. SO WE'RE [01:16:23] TALKING ABOUT WHAT THE RIGHT PATHWAY IS [01:16:26] OR WHAT THE RIGHT METHODOLOGY IS TO [01:16:27] ALLOCATE. AND RIGHT NOW, IT'S BASED ON [01:16:30] WHAT IS FUELED HERE AND TO BE ABLE TO [01:16:32] SHARE INFORMATION WITH EACH OTHER SO [01:16:35] THAT WE REALLY HAVE A BETTER IDEA OF OUR [01:16:37] EMISSIONS REDUCTIONS FOR BOTH OUTGOING [01:16:40] AND INCOMING FLIGHTS. OKAY. WE'VE GOT A [01:16:43] LOT TO GET THROUGH AND NOT A LOT OF TIME [01:16:44] TO GET THROUGH, RIGHT? THANK YOU, [01:16:46] CHRIS, FOR JOINING US. THANK YOU, [01:16:47] CHRIS, WELCOME, AND I'LL BE HERE. [01:16:51] I'LL JUST BE IN THE BACKGROUND, BUT I'LL [01:16:53] LISTEN IN FOR THE WHOLE THING. THANK YOU [01:16:55] AGAIN. ALL RIGHT, SO NEXT SLIDE. [01:16:58] SO I WILL TRY AS QUICKLY AS POSSIBLE TO [01:17:01] REVIEW THE PORT'S ROLE AND THE STRATEGIC [01:17:05] PLAN. AS COMMISSIONER HASAGAWA POINTED [01:17:07] OUT, WE DON'T OWN OR CONTROL THESE [01:17:09] SOURCES. SO HOW DO WE, AS AN AIRPORT [01:17:11] PLAY A ROLE HERE? AND SO GIVEN THE [01:17:15] SUPPLY AND PRICE ISSUES THAT YOU'VE JUST [01:17:17] HEARD ABOUT FROM CHRIS'S PRESENTATION, [01:17:19] WHAT IS OUR ROLE? AND JUST FOR A WAY OF [01:17:22] BACKGROUND FOR THOSE COMMISSIONER WHO [01:17:24] WEREN'T HERE PRIOR TO 2015, [01:17:27] REALLY, IN THE EARLY HISTORY OF THIS [01:17:29] AIRPORT, WE WERE PARTS OF DIFFERENT [01:17:31] GROUPS THAT WERE STUDYING THIS TOPIC AND [01:17:33] SAYING, WE'RE INTERESTED IN IT. WE HAVE [01:17:35] THE BENEFIT OF AIRLINES LIKE ALASKA, [01:17:38] WHO WERE EARLY PARTNERS IN THIS, AND [01:17:41] BOEING AND OTHERS IN OUR BACKYARD. SO [01:17:44] WE'VE STARTED MAYBE IN A ROLE OF SAYING, [01:17:46] WELL, WE REALLY LIKE THIS STUFF. WE WANT [01:17:48] MORE OF IT, BUT WHAT DO WE DO? AND SO IN [01:17:51] 2015, WE SHIFTED MORE TO REALLY [01:17:54] LEANING INTO THE ECONOMIC DEVELOPMENT [01:17:56] PART OF THE PORT'S MISSION TO SAY, [01:17:58] WELL, WHAT COULD WE DO TO SHIFT TO A [01:18:00] MARKET DEVELOPMENT ROLE? ARE THERE



[01	.18.∩11	THINGS THAT WE CAN DO THAT ARE MORE
		SUPPORTIVE AND HELPED BRING MORE OF THIS
[01	:18:071	INDUSTRY HERE TO WASHINGTON STATE? NEXT
		SLIDE. SO AS PART OF
[01	:18:13]	THAT, WE STARTED AN EXPLORATION IN 2015
[01	·18·16]	OF SAYING, WELL, WHAT ARE THE DIFFERENT
[01	:18:18]	BUCKETS OF ROLES THAT THE PORT WITHIN
[01	:18:211	OUR REGULATORY AUTHORITY KNOWING? WE
		DON'T BUY THIS FUEL, WE DON'T CONTROL
[01	:18:25]	ANY OF THIS. WHAT CAN WE DO IN THE SPACE
Ī01	·18·281	THAT WE OCCUPY. AND SO ONE, OF COURSE,
[01	:18:30]	IS LOOKING AT INFRASTRUCTURE
[01	:18:321	INTEGRATION. AS CHRIS MENTIONED,
	-	YOU DON'T HAVE THE SAF COMING FROM THE
[01	:18:38]	SAME SOURCES AS THE REFINERIES. SO HOW
[01	·18·411	DO WE INTEGRATE IT? IS THERE SOMETHING
		WE CAN DO TO HELP WITH STORAGE,
[01	:18:44]	RECEIVING AND BLENDING? THEN THERE'S THE
		INCREMENTAL COST ISSUE. ARE THERE
[01	:18:48]	THINGS, ARE THERE POLICIES WE CAN
[01	:18:491	SUPPORT TO BRING DOWN THE COST? ARE
		THERE OTHER INNOVATIVE PROGRAMS THAT WE
[01	:18:53]	CAN HELP WITH? AND THEN FINALLY
[01	·18·551	ATTRACTING SAF PRODUCTION FACILITIES TO
		THE STATE? THAT WAS REALLY WELL. IS
[01	:18:591	THERE SOME ROLE WE CAN PLAY IN HELPING
		TO DEVELOP THE INDUSTRY HERE? AND I'LL
[01	:19:05]	TALK A LITTLE BIT MORE ABOUT THAT AS I
[01	:19:071	DIVE IN. NEXT SLIDE. SO,
		AS PART OF THOSE MAJOR QUESTIONS, THOSE
[01	:19:13]	MAJOR BUCKETS, WE DID SOME FOUNDATIONAL
		RESEARCH THAT REALLY SORT OF KICKED OFF
		IN 2016, THE FIRST ONE BEING AN
[01	:19:201	INFRASTRUCTURE FEASIBILITY STUDY TO LOOK
		AT HOW BEST TO INTEGRATE ANY DELIVERY OF
		SAF AND BLENDING INTO THE PIPELINE SO
[01	:19:281	THAT IT CAN GET HERE AS EFFECTIVELY AND
		EFFICIENTLY AS POSSIBLE. THAT
[01	:19:31]	FEASIBILITY STUDY WAS THE FIRST OF ITS
Ī01	·10·331	KIND AND HAS NOW BEEN DUPLICATED OR
		COPIED AT OTHER AIRPORTS BECAUSE IT SORT
[01	:19:38]	OF REALLY SET THE TONE FOR HOW AN
		LAIRPORT COLILD HELP FACILITATE ANSWERING
[01		AIRPORT COULD HELP FACILITATE ANSWERING
FO 4	-	SOME OF THOSE QUESTIONS. THEN WE ALSO
[01	-	SOME OF THOSE QUESTIONS. THEN WE ALSO
	:19:46]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT
[01	:19:46] :19:47]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US.
[01	:19:46] :19:47]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT
[01 [01	:19:46] :19:47] :19:50]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS
[01 [01 [01	:19:46] :19:47] :19:50] :19:53]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES
[01 [01 [01 [01	:19:46] :19:47] :19:50] :19:53] :19:57]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES AND ALSO AS A PORT COMPARED TO
[01 [01 [01 [01	:19:46] :19:47] :19:50] :19:53] :19:57]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES
[01 [01 [01 [01	:19:46] :19:47] :19:50] :19:53] :19:57] :20:01]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES AND ALSO AS A PORT COMPARED TO MAYBE IN EUROPE WHERE YOU HAVE A PRIVATE
[01 [01 [01 [01 [01	:19:46] :19:47] :19:50] :19:53] :19:57] :20:01]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES AND ALSO AS A PORT COMPARED TO MAYBE IN EUROPE WHERE YOU HAVE A PRIVATE AIRPORT. THEY CAN PLAY A DIFFERENT
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[01 [01 [01 [01 [01 [01	:19:46] :19:47] :19:50] :19:53] :19:57] :20:01] :20:03]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES AND ALSO AS A PORT COMPARED TO MAYBE IN EUROPE WHERE YOU HAVE A PRIVATE AIRPORT. THEY CAN PLAY A DIFFERENT
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[01] [01] [01] [01] [01] [01] [01] [01]	:19:46] :19:47] :19:50] :19:53] :19:57] :20:01] :20:03] :20:05] :20:07] :20:13] :20:20] :20:23] :20:24]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES AND ALSO AS A PORT COMPARED TO MAYBE IN EUROPE WHERE YOU HAVE A PRIVATE AIRPORT. THEY CAN PLAY A DIFFERENT FINANCIAL ROLE THAN WE CAN. SO WE DID SOME FOUNDATIONAL WORK TO UNDERSTAND, WITHIN THE LIMITS OF OUR AUTHORITY, WHAT ROLE CAN WE PLAY FINANCIALLY. NEXT SLIDE. SO THAT REALLY LED TO, IN 2018, THE ADOPTION OF THE PORT'S SAF STRATEGY THAT HAD FOUR KEY COMPONENTS. AND WHAT I'LL DO IN THE INTEREST OF TIME, I'LL WALK THROUGH THE MAJOR UPDATES IN THESE FOUR AREAS. I WILL POINT OUT WE HAVE A
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[01] [01] [01] [01] [01] [01] [01] [01]	:19:46] :19:47] :19:50] :19:53] :19:57] :20:01] :20:03] :20:05] :20:07] :20:08] :20:17] :20:20] :20:23] :20:24] :20:26]	SOME OF THOSE QUESTIONS. THEN WE ALSO WERE PART OF A STUDY LOOKING AT INNOVATIVE FUNDING FOR STAFF AT US. AIRPORTS. WE HAVE MORE RESTRICTIONS AS FAA FEDERAL REGULATED FACILITIES AND ALSO AS A PORT COMPARED TO MAYBE IN EUROPE WHERE YOU HAVE A PRIVATE AIRPORT. THEY CAN PLAY A DIFFERENT FINANCIAL ROLE THAN WE CAN. SO WE DID SOME FOUNDATIONAL WORK TO UNDERSTAND, WITHIN THE LIMITS OF OUR AUTHORITY, WHAT ROLE CAN WE PLAY FINANCIALLY. NEXT SLIDE. SO THAT REALLY LED TO, IN 2018, THE ADOPTION OF THE PORT'S SAF STRATEGY THAT HAD FOUR KEY COMPONENTS. AND WHAT I'LL DO IN THE INTEREST OF TIME, I'LL WALK THROUGH THE MAJOR UPDATES IN THESE FOUR AREAS. I WILL POINT OUT WE HAVE A



[01:20:32] COMMISSIONERS HAVE BEEN INCREDIBLY [01:20:34] SUPPORTIVE AND ARE ALSO LOOKING FOR MORE [01:20:36] INFORMATION ABOUT WHAT ELSE WE CAN DO IN [01:20:38] THAT SPACE. SO I'LL QUICKLY WALK THROUGH [01:20:40] THOSE KEY COMPONENTS AND THEN HAND IT [01:20:42] OVER TO THE DEEP DIVE ON POLICY. NEXT [01:20:45] SLIDE. SO, IN THE SPACE
[01:20:49] OF COOPERATION AND PARTNERSHIPS, ALSO IN [01:20:51] 2018 WAS THE FOUNDATION OF THE AIRLINE [01:20:53] AIRPORT MOU GROUP. AND THERE THERE WERE [01:20:56] AIRLINES WHO SIGNED ON TO AN MOU TO LOOK [01:20:59] AT WHAT DIFFERENT STRATEGIES WE COULD DO
[01:21:01] TO REDUCE GREENHOUSE GAS EMISSIONS AND [01:21:04] REACH THOSE SAF GOALS THAT YOU HEARD [01:21:06] ABOUT AT THE BEGINNING OF OUR [01:21:08] PRESENTATION. AND SO WITH THAT GROUP,
[01:21:11] WE EVALUATED THE ABILITY TO MEET LOCAL [01:21:15] AND REGIONAL FUEL GOALS AND FIND OUT, [01:21:18] WELL, DO WE HAVE ENOUGH FEEDSTOCKS IN [01:21:20] THE PACIFIC NORTHWEST, IN THIS GENERAL [01:21:22] REGION TO MEET THE SAF GOAL OF 10% AND
[01:21:26] INCREASING PERCENTAGES? SO WE WORKED [01:21:28] WITH WSU TO DO A FOUNDATIONAL STUDY AND [01:21:31] LOOK AT WHAT WE HAVE AVAILABLE. AND ONE [01:21:34] OF THE FINDINGS OF THAT STUDY WAS THAT
[01:21:37] WE HAVE A SIGNIFICANT AMOUNT OF [01:21:38] MUNICIPAL SOLID WASTE IN THIS REGION TO [01:21:41] ACTUALLY JUST WITH THAT FEEDSTOCK ALONE [01:21:43] TO MEET THE SAF GOAL THAT WE HAVE HERE [01:21:45] AT THE AIRPORT. AND SO STEMMING OUT
[01:21:49] OF THAT WITH COMMISSIONER FELOMAN'S [01:21:51] LEADERSHIP, HE APPROACHED THE KING [01:21:52] COUNTY SOLID WASTE DIVISION KNOWING THAT [01:21:54] THEY HAVE ISSUES WITH THE IMMINENT
[01:21:57] CLOSURE OF THE CEDAR HILLS LANDFILL TO [01:21:59] DO A MUNICIPAL SOLID WASTE TO LIQUIDS. [01:22:01] TECHNOECONOMIC FEASIBILITY STUDY AND THE [01:22:05] RESULTS OF THAT STUDY WILL BE COMPLETED
[01:22:08] THIS YEAR AND WE HOPE IN THE NEXT COMING [01:22:10] MONTHS TO BE ABLE TO BRIEF YOU ON THE [01:22:11] FINDINGS OF THAT STUDY. AND THEN [01:22:14] FINALLY, ANOTHER PARTNERSHIP THAT HAS [01:22:17] EVOLVED RECENTLY IS THE CASCADIA
[01:22:18] CORRIDOR WHERE WE HAVE SIGNED AN MOU [01:22:21] WITH PORTLAND AIRPORT AND VANCOUVER [01:22:23] AIRPORT BECAUSE WE ACTUALLY RECEIVE [01:22:27] REFINED JET FUEL, FOSSIL JET FUEL FROM A
[01:22:30] LOT OF SIMILAR FACILITIES OR SAME [01:22:32] FACILITIES. WHAT OPPORTUNITIES DO WE [01:22:36] HAVE WITH PARTNERSHIP AND SHARED [01:22:37] PIPELINE THAT WE MIGHT BE ABLE TO DO [01:22:39] AROUND SUSTAINABLE AVIATION FUEL? SO
[01:22:40] I'LL HAVE AN UPDATE ON THAT SHORTLY. [01:22:43] NEXT SLIDE. BEFORE I DIVE MUCH [01:22:47] DEEPER INTO THE SORT OF POLICY AND SOME [01:22:49] OF THE MARKET MECHANISMS, ONE THING I
[01:22:51] JUST WANTED TO COVER IS THIS IDEA OF THE [01:22:53] DIFFERENT MECHANISMS THAT WE CAN USE AND [01:22:55] THAT WE HAVE BEEN PURSUING TO HELP LOOK [01:22:59] AT WHAT WAYS THE PRICE GAP CAN BE
[01:23:01] ADDRESSED. SO THIS REPRESENTATIVE BARREL [01:23:05] IS THE THE FRACTIONS IN IT ARE NOT MEANT [01:23:07] TO BE REPRESENTATIVE OF SPECIFIC VALUES



[01:23:09] AND POLICIES, BUT TO JUST GIVE YOU A [01:23:10] SENSE OF IT. AND SO WHEN WE LOOK AT THE [01:23:13] TOTAL COST OF SAF, THAT'S WHAT THIS [01:23:15] ENTIRE BARREL IS REPRESENTING. BUT THE [01:23:20] BLUE IS JUST SHOWING BASICALLY WHAT THE [01:23:22] REGULAR COST OF JET FUEL IS OR WHAT AN [01:23:24] AIRLINE WOULD TYPICALLY PAY FOR FUEL. [01:23:26] SO WHAT DO WE DO TO BRING THAT COST [01:23:28] DOWN? WHAT ARE THE DIFFERENT MECHANISMS? [01:23:30] SO WE'VE DEFINITELY LOOKED AT POLICY [01:23:32] INCENTIVES LIKE THE RENEWABLE FUEL [01:23:36] STANDARDS OR CLEAN FUEL STANDARDS AS [01:23:38] WELL AS SUPPORTING THE FEDERAL BLENDERS [01:23:39] TAX CREDIT. THEN THERE ARE OTHER [01:23:42] MECHANISMS THAT WE CALL CORPORATE OR [01:23:44] AIRPORT CONTRIBUTIONS WHICH ARE SEPARATE [01:23:46] FROM POLICY BUT CAN BE FINANCIAL [01:23:49] INSTRUMENTS THAT COULD BE USED TO HELP [01:23:50] BRING DOWN THE COST. THOSE POLICY [01:23:53] INCENTIVES THAT YOU SEE AT THE TOP. [01:23:55] THOSE ARE RECEIVED BY THE FUEL PRODUCER [01:23:58] SO THEY EARN THOSE CREDITS AND THEN [01:24:01] THAT CAN GET TRANSLATED INTO THE FINAL [01:24:03] COST THAT THEY SELL TO THE AIRLINES. [01:24:06] BUT WE DON'T HAVE TRANSPARENCY [01:24:07] NECESSARILY INTO THE EXACT AMOUNT THAT [01:24:10] IT RESULTS IN, IN THE FINAL PRICE. BUT [01:24:11] WE KNOW THAT THEY USE THOSE MECHANISMS [01:24:13] TO REDUCE THE FINAL PRICE. THE CORPORATE [01:24:16] CONTRIBUTIONS AND AIRPORT CONTRIBUTIONS [01:24:18] I'LL TALK A LITTLE BIT MORE ABOUT, BUT [01:24:20] THESE ARE MARKET MECHANISMS THAT LOOK AT [01:24:23] THE VALUE TO CORPORATIONS, FOR EXAMPLE, 101:24:251 WHO FLY THEIR EMPLOYEES ON THOSE [01:24:28] AIRLINES OR MIGHT SHIP PRODUCTS IN THE [01:24:30] BELLY CARGO OF THE AIRLINE AND SAY WE [01:24:33] WOULD LIKE THOSE TO BE FUELED ON SAF. [01:24:35] AND SO IS THERE A MARKET INSTRUMENT WE [01:24:36] CAN USE TO INCENTIVIZE TO SAY WE AS A [01:24:39] CORPORATION WOULD LIKE TO ADD TO THIS [01:24:41] PRICING BUCKET AND BE ABLE TO BUY DOWN [01:24:44] THE EMISSION CONTRIBUTION OF THOSE [01:24:47] PRODUCTS OR THOSE PASSENGERS TRAVELING. [01:24:50] AND THEN WE'VE ALSO LOOKED AT WHETHER [01:24:52] AIRPORTS CAN ALSO PLAY A ROLE IN THOSE [01:24:53] MARKET MECHANISMS AND WHETHER THERE ARE [01:24:55] GRANTS OR THINGS WE CAN DO WITH OUR [01:24:57] FEDERAL PARTNERS TO HELP INCENTIVIZE. [01:24:59] NOW WE KNOW THAT IN EUROPEAN PRIVATE [01:25:02] SECTOR AIRPORTS THEY'RE ABLE TO DIRECTLY [01:25:04] FUND SAF, BUT THAT IS NOT SOMETHING [01:25:06] WITHIN OUR LEGAL AUTHORITY. NEXT SLIDE. [01:25:11] SO WE DO HAVE THE DEEP DIVE ON POLICY, [01:25:14] BUT I DID WANT TO JUST TALK A LITTLE BIT [01:25:16] ABOUT THE LANDSCAPE CHANGES IN POLICY [01:25:18] THAT HAVE HAPPENED SINCE I LAST BRIEFED [01:25:20] THE COMMISSION IN 2020. BUT WHAT WE HAVE [01:25:22] REALLY SEE, AND COMMISSIONER FELLEMAN, [01:25:24] YOU MENTIONED THIS, IS THAT THE EU, AND [01:25:26] ACTUALLY JAPAN JUST ANNOUNCED IT AS [01:25:28] WELL, IS TAKING THIS MANDATE APPROACH [01:25:30] AND BASICALLY SAYING WE NEED A SUPPLY [01:25:34] BLEND OF 2% BY 2025 AND THEN INCREASING



101:25:371 THAT OVER TIME. SO THAT'S A REGULATORY [01:25:40] MECHANISM THAT THEY'RE JUST SAYING THIS [01:25:42] IS WHAT WE WANT AND THIS IS THE MANDATE. [01:25:44] THE US IN TYPICAL FASHION HAS TAKEN MUCH [01:25:48] MORE OF AN INCENTIVE APPROACH AND WE [01:25:50] HAVE STATES CONTRIBUTING TO THOSE [01:25:51] INCENTIVES WITH THINGS LIKE THE LOW [01:25:53] CARBON FUEL STANDARD AS WELL AS SPECIFIC [01:25:56] SAF INCENTIVE BILLS. AND THEN THE 101:25:581 FEDERAL GOVERNMENT REALLY TO MATCH WITH [01:26:02] THEIR SAF GRAND CHALLENGE TO INCENTIVIZE [01:26:04] THE 30 BILLION GALLONS, SORRY, THE 3 [01:26:07] BILLION GALLONS THAT WE NEED. THEY HAVE [01:26:09] INTRODUCED THE BLENDERS TAX CREDIT AS [01:26:11] WELL AS THINGS TO HELP PRODUCTION. SO A [01:26:13] LOT OF THE INCENTIVES HERE, THEY REALLY [01:26:16] HAVE TO BE STACKED TOGETHER IN ORDER TO [01:26:18] BRING THOSE PRICES DOWN. BUT THEY'RE [01:26:19] FOCUSED ON BOTH PRODUCTION AND USE AND [01:26:22] WE'LL DIVE DEEPER INTO THAT MOMENTARILY. [01:26:24] NEXT SLIDE PLEASE. [01:26:28] THEN THE UPDATE IN THE MARKET [01:26:29] DEVELOPMENT SIDE, AND THIS IS WHAT I WAS [01:26:31] SPEAKING ABOUT WITH CORPORATIONS BEING [01:26:34] CONTRIBUTING, IS THAT WHAT WE'VE REALLY [01:26:36] SEEN AND IN FACT, AT OUR LAST SAF STUDY [01:26:39] SESSION, WE HAD AN ANNOUNCEMENT FROM [01:26:42] MICROSOFT THAT THEY WERE THE FIRST TO [01:26:44] DEVELOP A MECHANISM TO BUY A SAF [01:26:46] CERTIFICATE. AND THAT IS A CONTRACTUAL [01:26:49] INSTRUMENT WHERE AN AIRLINE CAN [01:26:51] BASICALLY BUY SAF SEATS OR SAF [01:26:55] FLOWN CARGO. AND SINCE THAT TIME, 101:26:591 WHAT WE'VE REALLY SEEN IS THAT THERE [01:27:01] HAVE BEEN A FORMALIZATION OF THE [01:27:03] METHODOLOGY AND WHAT WE CALL THE BOOK [01:27:05] AND CLAIM APPROACH SO THAT THOSE SAF [01:27:08] BENEFITS THAT THE AIRLINE IS [01:27:10] CONTRIBUTING TO AND HELPING TO PAY FOR [01:27:13] THAT SAF THAT THEY'RE ABLE FOR THAT TO [01:27:15] BE REFLECTED IN THEIR ACCOUNTING BOOKS, [01:27:18] THAT THEIR GREENHOUSE GAS ACCOUNTING **[01:27:20] THAT COMPANIES LIKE PRICEWATERHOUSE** [01:27:22] COOPERS HAVE NOW PUT THEIR STAMP ON IT [01:27:24] AND SAID, THOSE ARE INSTRUMENTS THAT WE [01:27:27] RECOGNIZE, AND THAT THAT IS HELPING TO [01:27:29] REDUCE THE THE FOOTPRINT OF YOU AS A [01:27:31] COMPANY FOR YOUR SCOPE. THREE EMISSIONS. [01:27:33] NOW BECAUSE IT'S A GLOBAL AIR POLLUTANT, [01:27:37] IT USES A BOOK AND CLAIM APPROACH. AN [01:27:39] AIR CORPORATION LIKE MICROSOFT, THEY [01:27:43] MIGHT NOT NECESSARILY HAVE FLYERS ON [01:27:45] THAT EXACT AIRCRAFT. AND SO IN THE SAME [01:27:47] WAY THAT WE TALKED ABOUT THAT IF IT GETS [01:27:49] UPLIFTED AT LAX AND IT MIGHT GET USED BY [01:27:52] MULTIPLE AIRLINES, IT IS STILL THAT [01:27:55] CONTRIBUTOR BECAUSE IT'S A GLOBAL [01:27:56] POLLUTANT. THAT CORPORATION IS ABLE TO [01:27:59] BOOK AND CLAIM IT AND IT'S ABLE TO BE [01:28:00] TRACKED CONTRACTUALLY SO THAT NO ONE [01:28:02] ELSE IS DOUBLE COUNTING IT OR CLAIMING [01:28:04] IT. SO THERE'S A WHOLE PROCEDURE NOW, A [01:28:07] MANUAL ABOUT HOW TO DO THIS THAT HAS



[01:28:09] EVOLVED REALLY IN THE LAST THREE YEARS
[01:28:11] BECAUSE THERE'S A LOT OF INTEREST IN THE
[01:28:13] CORPORATE SECTOR FOR THIS. COMMISSIONER
[01:28:15] MOHAMMED, WHO AUDITS THAT MANUAL OR
[01:28:18] WHAT'S THE PROCESS IN PLACE TO MAKE?
[01:28:20] WELL, THE MANUAL RIGHT NOW IS SETTING
[01:28:23] OUT WHAT THE TERMS ARE, BUT THE AUDIT IS
[01:28:24] COMPANIES LIKE THE PRICEWATERHOUSE
[01:28:26] COOPERS WHO DO THE EVALUATION OF THE
[01:28:29] BOOKS, SO TO SPEAK, OF ANY CORPORATION.
[01:28:33] SO IT ISN'T A REGULATORY MECHANISM THAT
[01:28:35] HAS AN AUDIT FUNCTION FROM GOVERNMENT,
[01:28:37] IT IS MORE OF AN AUDIT FUNCTION WITHIN
[01:28:40] THE CLAIMS SYSTEM OF GREENHOUSE GASES.
[01:28:44] NEXT SLIDE. AND THEN FINALLY ON
[01:28:48] OUTREACH AND EDUCATION. I DON'T NEED TO
[01:28:50] DIVE INTO IT TOO MUCH. BUT THE FOCUS
[01:28:52] REALLY FOR US OVER THE LAST THREE OR
[01:28:54] FOUR YEARS HAS BEEN ON EDUCATING
[01:28:56] LEGISLATORS AND WHY THE SAF PRICE
[01:28:59] DIFFERENCE IS WHAT IT IS. WHAT THE
[01:29:01] CHALLENGES? ARE WITH RENEWABLE DIESEL
[01:29:04] PRODUCTION AND THE PRICE DIFFERENCE TO
[01:29:06] INCENTIVIZE THAT VERSUS SAF AND REALLY
[01:29:08] WORKING WITH THAT PORTION OF OUR
[01:29:11] EDUCATION AND OUTREACH. BUT I DID WANT
[01:29:13] TO LET THE COMMISSIONER KNOW THAT WE
[01:29:14] ALSO SEATTLE AIRPORT HAS BEEN RECOGNIZED
[01:29:17] NATIONALLY AND GLOBALLY IN OUR
[01:29:20] LEADERSHIP FOR THE TYPES OF RESEARCH
[01:29:22] PROJECTS THAT WE'VE DONE. AND WE ARE AN
[01:29:25] ADVISOR TO THE SAF GRAND CHALLENGE. THE
[01:29:27] BIDEN ADMINISTRATION'S GRAND CHALLENGE.
[01:29:29] THEY SOUGHT OUR ADVICE IN TERMS
[01:29:31] ESPECIALLY AS IT RELATES TO
[01:29:32] INFRASTRUCTURE INTEGRATION. AND WE'RE
[01:29:34] ALSO A PARTICIPANT ON WORLDWIDE SAF
[01:29:36] INITIATIVES, INCLUDING EU FUNDED
[01:29:38] PROJECTS WHERE THEY WOULD LIKE OUR
[01:29:42] FEEDBACK AND LEADERSHIP IN THIS SPACE
101:29:441 BECAUSE OF ALL THE FOUNDATIONAL RESEARCH
[01:29:44] BECAUSE OF ALL THE FOUNDATIONAL RESEARCH
[01:29:46] THAT'S REALLY BEEN CONDUCTED HERE. NEXT
[01:29:46] THAT'S REALLY BEEN CONDUCTED HERE. NEXT [01:29:48] SLIDE. SO THE NEXT STEPS BEFORE WE DIVE
[01:29:46] THAT'S REALLY BEEN CONDUCTED HERE. NEXT [01:29:48] SLIDE. SO THE NEXT STEPS BEFORE WE DIVE [01:29:52] INTO THE POLICY DEEP DIVE ON THOSE
[01:29:46] THAT'S REALLY BEEN CONDUCTED HERE. NEXT [01:29:48] SLIDE. SO THE NEXT STEPS BEFORE WE DIVE [01:29:52] INTO THE POLICY DEEP DIVE ON THOSE [01:29:55] STRATEGIES THAT I'VE JUST DISCUSSED
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[01:29:46] THAT'S REALLY BEEN CONDUCTED HERE. NEXT [01:29:48] SLIDE. SO THE NEXT STEPS BEFORE WE DIVE [01:29:52] INTO THE POLICY DEEP DIVE ON THOSE [01:29:55] STRATEGIES THAT I'VE JUST DISCUSSED [01:29:58] PRIOR IS THAT THAT JOINT CASCADIA [01:30:02] AIRPORTS GROUP THAT I SPOKE ABOUT WITH
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[01:29:46] THAT'S REALLY BEEN CONDUCTED HERE. NEXT [01:29:48] SLIDE. SO THE NEXT STEPS BEFORE WE DIVE [01:29:52] INTO THE POLICY DEEP DIVE ON THOSE [01:29:55] STRATEGIES THAT I'VE JUST DISCUSSED [01:29:58] PRIOR IS THAT THAT JOINT CASCADIA [01:30:02] AIRPORTS GROUP THAT I SPOKE ABOUT WITH [01:30:04] PORTLAND AND VANCOUVER AIRPORT, WE'RE [01:30:06] REALLY LOOKING AS OUR NEXT STEP THAT WE [01:30:08] WANT TO TALK ABOUT WHAT STRATEGIC [01:30:11] BLENDING AND STORAGE FACILITY LOCATIONS [01:30:13] WE MIGHT HAVE. AGAIN, BECAUSE WE HAVE A [01:30:14] SHARED PIPELINE AND ONE MAJOR REFINER [01:30:17] THAT ALSO DELIVERS THE MAJORITY OF OUR [01:30:19] FUEL TO ALL THREE AIRPORTS IS THAT IS [01:30:23] STRATEGIC FACILITY THAT ALL THREE OF OUR [01:30:26] AIRPORTS COULD USE OR THAT IS CONNECTED [01:30:29] TO THE SUPPLY CHAIN OF ALL OF OUR [01:30:31] AIRPORTS. AND THE FAA ASCENT PROGRAM [01:30:35] ACTUALLY HAS MONEY THAT WE HAVE JUST
[01:29:46] THAT'S REALLY BEEN CONDUCTED HERE. NEXT [01:29:48] SLIDE. SO THE NEXT STEPS BEFORE WE DIVE [01:29:52] INTO THE POLICY DEEP DIVE ON THOSE [01:29:55] STRATEGIES THAT I'VE JUST DISCUSSED [01:29:58] PRIOR IS THAT THAT JOINT CASCADIA [01:30:02] AIRPORTS GROUP THAT I SPOKE ABOUT WITH [01:30:04] PORTLAND AND VANCOUVER AIRPORT, WE'RE [01:30:06] REALLY LOOKING AS OUR NEXT STEP THAT WE [01:30:08] WANT TO TALK ABOUT WHAT STRATEGIC [01:30:11] BLENDING AND STORAGE FACILITY LOCATIONS [01:30:13] WE MIGHT HAVE. AGAIN, BECAUSE WE HAVE A [01:30:14] SHARED PIPELINE AND ONE MAJOR REFINER [01:30:17] THAT ALSO DELIVERS THE MAJORITY OF OUR [01:30:19] FUEL TO ALL THREE AIRPORTS IS THAT IS [01:30:23] STRATEGIC FACILITY THAT ALL THREE OF OUR [01:30:26] AIRPORTS COULD USE OR THAT IS CONNECTED [01:30:29] TO THE SUPPLY CHAIN OF ALL OF OUR [01:30:31] AIRPORTS. AND THE FAA ASCENT PROGRAM



[01:30:44] WE ARE ALSO THEN, AS I MENTIONED. [01:30:46] PUBLISHING THE MSW TO FUEL STUDY. AND [01:30:48] THEN WE CONTINUE TO EVALUATE THOSE [01:30:50] INNOVATIVE CONCEPTS THAT WE'RE LOOKING [01:30:52] AT THESE MARKET BASED MECHANISMS TO [01:30:54] REDUCE THE INCREMENTAL COST AND INCREASE [01:30:56] THE AVAILABILITY AT OUR AIRPORTS. SO [01:30:59] I'LL PAUSE THERE BEFORE WE DO THE DEEP [01:31:01] DIVE INTO POLICY TO SEE IF THERE ARE ANY [01:31:03] QUESTIONS. [01:31:09] THANKS SO MUCH STEPHANIE, AND REALLY OUR [01:31:11] CREDIT FOR BEING LEADERS HAS MUCH TO DO [01:31:14] WITH YOUR WORK. SO REALLY APPRECIATE IT. [01:31:16] THANK YOU. [01:31:22] AND, AND SO I JUST WANTED TO GO BACK TO [01:31:24] THAT GRAPHIC, THE BARREL. FAMOUS BARREL. [01:31:27] YEAH. SO, BUT THE THE FOOTNOTE SAYS [01:31:30] ILLUSTRATIVE NOT SPECIFIC TO ANY [01:31:32] PARTICULAR POLICY OR PRICE. BUT IS IT [01:31:34] PROPORTIONATE? IT ISN'T QUITE [01:31:37] PROPORTIONATE BECAUSE THE GREEN [01:31:41] FRACTION, AS WE MENTIONED IN CHRIS'S [01:31:43] PRESENTATION, THAT GREEN FRACTION IS [01:31:46] MUCH SMALLER FOR A HEIFER BASED FUEL [01:31:48] THAN IT IS FOR. IF IT WAS POWER TO [01:31:50] LIQUIDS, IT WOULD GO OFF THE PIECE OF [01:31:53] THE PAPER, FRANKLY, BECAUSE IT WOULD BE [01:31:55] SUCH A HUGE PRICE DIFFERENTIAL. AND SO [01:31:58] THAT IN A SENSE IS ALREADY WHERE THERE'S [01:32:01] SOME DISTORTION IN WHAT IT MIGHT BE. [01:32:03] AND THEN FOR HEFA BASED FUELS. [01:32:06] SO AGAIN, THOSE ARE THE LIPIDS OR THE [01:32:10] WASTE COOKING OIL, THOSE SORTS OF [01:32:12] THINGS, JUST TO CLARIFY WHAT WE MEAN BY [01:32:14] HEFA, THEY'RE OIL BASED AND THEY USE THE [01:32:16] SAME BIOCHEMICAL OR SORRY, [01:32:20] THE CHEMICAL PATHWAY OF REGULAR [01:32:22] REFINERIES, THAT PRICE GAP [01:32:26] IS LOWER. AND SO THEREFORE THE POLICY [01:32:28] INCENTIVES LIKE RINSE, LOW CARBON FUEL [01:32:31] STANDARD BLENDERS TAX CREDIT, ACTUALLY [01:32:33] TAKE UP THE MAJORITY OF THAT FRACTION. [01:32:36] YOU DON'T NEED AS MUCH CONTRIBUTION FROM [01:32:38] THOSE OTHER SOURCES WHEN YOU'RE USING [01:32:40] THOSE LOWER PRICED HEFA BASED SAF. BUT [01:32:43] AS SOON AS YOU CHANGE THE TYPE OF [01:32:46] PATHWAY AND THE TECHNOLOGIES ARE MORE [01:32:48] NASCENT, THE HIGHER THAT PRICE GETS AND [01:32:50] THE MORE YOU NEED TO LOOK AT OTHER [01:32:52] MECHANISMS TO FILL THAT GREEN BARREL. [01:32:55] OKAY, SO JUST STAYING ON THE PRICE [01:32:57] ISSUE, I'M VERY EXCITED TO HEAR MORE [01:33:00] ABOUT THAT CASCADE CORRIDOR. IT SEEMS [01:33:01] REALLY LIKE A REALLY CLEVER THING. AND [01:33:03] BP WASN'T SPECIFICALLY CALLED OUT IN THE [01:33:06] PRODUCERS OF THING, ALTHOUGH I THINK [01:33:08] THEY'RE INVESTOR IN FULCRUM. BUT THE [01:33:11] IDEA THAT THEY'VE ANNOUNCED SOME [01:33:13] POTENTIALLY LARGE ADDITIONAL PRODUCTION [01:33:15] CAPABILITY AT CHERRY POINT IS AN [01:33:18] INTERESTING COMPONENT TO THAT [01:33:20] CONVERSATION. BUT ONE THING THAT WASN'T [01:33:22] MENTIONED IS IN TERMS OF WHEN YOU BUY IN



101:33:24] BULK, YOU GET A PRICE CHALLENGE, IT'S [01:33:28] ALWAYS CHEAPER TO BUY GOING TO COSTCO. [01:33:31] SO THE COSTCO OF STAFF IS WHAT WE [01:33:35] WANT TO FIND. SO THESE LARGE UPTAKE [01:33:37] AGREEMENTS I WOULD ASSUME, ARE ONE OF [01:33:40] THE WAYS THAT THE AIRLINES CAN CERTAINLY [01:33:42] BUY DOWN THEIR COST. AND THEN THE [01:33:44] QUESTION ABOUT FOR THE REFINERS AND I DO [01:33:47] APPRECIATE YOUR POINT THAT WHETHER THEY 101:33:481 PASS ON THE SAVINGS OR NOT IS OBVIOUSLY [01:33:51] PROVING NOT TO BE THE CASE IN THE STATE [01:33:54] RIGHT NOW, BUT THE [01:33:57] PRODUCTION OF RENEWABLE DIESEL AND THAT [01:33:59] PROFIT MARGIN. CAN YOU JUST KIND OF GIVE [01:34:01] AN IDEA THAT I UNDERSTAND IT'S LIKE [01:34:03] CHEAPER TO PRODUCE RENEWABLE DIESEL THAN [01:34:05] CONVENTIONAL AND SO THEY'RE MAKING MONEY [01:34:07] ON THIS SIDE. IF WE JUST LOOK AT THEIR [01:34:09] OVERALL PROFIT PICTURE. YEAH, JUST VERY [01:34:12] BRIEFLY, ESPECIALLY THIS HEFA PATHWAY, [01:34:17] THE SORT OF FIRST STEP IN THE REFINING [01:34:19] PROCESS BASICALLY GIVES YOU RENEWABLE [01:34:21] DIESEL. SO IT'S LESS ENERGY INTENSIVE [01:34:24] AND IT'S SORT OF THE DEFAULT, YOU COULD [01:34:27] SAY, TO MAKE RENEWABLE DIESEL WHEN [01:34:29] YOU'RE MAKING RENEWABLE FUELS FROM HEFA. [01:34:32] SO IT'S AN ADDITIONAL INPUT PROCESS, [01:34:34] IT'S ADDITIONAL EFFORT. IT'S ADDITIONAL [01:34:37] COST TO TRANSFORM THAT RENEWABLE DIESEL [01:34:40] INTO SAF. SO THERE'S ALREADY A BIT OF AN [01:34:43] ENERGY AND COST PENALTY TO DO THAT. AND [01:34:45] THERE'S ALSO SOME ONROAD INCENTIVES [01:34:47] RELATED TO RENEWABLE DIESEL THAT WHEN [01:34:49] YOU'RE USING THAT, PARTICULARLY IN [01:34:51] CALIFORNIA, THAT DRIVE THE PRODUCERS TO [01:34:54] SAY, WELL, IF I CAN MAKE MORE MONEY [01:34:56] SELLING IT AS RENEWABLE DIESEL, I'M JUST [01:34:58] GOING TO DO THAT. I'M NOT GOING TO TAKE [01:34:59] THE STEP TO TURN IT AND CONVERT IT INTO [01:35:01] SAF. AND SO THE BLENDER'S TAX CREDIT [01:35:03] FEDERALLY HAS BEEN A BIG PART OF THE [01:35:07] STEP TO BRINGING THAT DIFFERENTIAL DOWN. [01:35:10] AND SO FOR THOSE HEFA BASED FUELS, THAT [01:35:13] BLENDERS TAX CREDIT HAS DONE A LOT TO [01:35:15] BRING THAT MARGIN DOWN AND INCENTIVIZE [01:35:17] THOSE PRODUCERS TO ACTUALLY MAKE SAF [01:35:19] INSTEAD OF RENEWABLE DIESEL. [01:35:22] JUST A QUICK FOLLOW UP ON THAT. ONE OF [01:35:24] THE NOTES I HAD WAS ABOUT REFINERY [01:35:26] RETOOLING AND SORRY TO EAT UP INTO THE [01:35:29] POLICY DISCUSSION, BUT I KNOW THAT IN [01:35:32] THE MODELING OF OUR TOTAL CONSUMPTION OF [01:35:35] LIKE GASOLINE IN THE STATE, THAT THE [01:35:37] STATE ISN'T GETTING AS MUCH REVENUE FROM [01:35:41] GAS TAX BECAUSE WE'RE BURNING LESS [01:35:43] GASOLINE. AND THAT WAS EVEN BEFORE THE [01:35:47] SIGNIFICANT INCREASE IN THE NUMBER OF [01:35:48] ELECTRIC VEHICLES. IT WAS BASED ON CAFE [01:35:50] STANDARDS AND OTHER THINGS. IT WAS JUST [01:35:52] MAKING CARS MORE EFFICIENT. NOW I READ [01:35:54] THAT 12% OF ALL CARS BOUGHT IN THE WORLD [01:35:57] LAST YEAR, NEW CARS BOUGHT WERE [01:35:58] ELECTRIC. AND THAT FAR SURPASSED



[01:36:00] ANYBODY'S ESTIMATE EVEN A COUPLE OF [01:36:02] YEARS AGO. SO, AS WE SEE, THIS SORT OF [01:36:05] REALLY STEEP ADOPTION OF NON [01:36:09] ICE VEHICLES AND THESE REFINERIES THAT [01:36:12] ARE ALL SET UP TO SUPPORT THAT MARKET [01:36:15] ARE NOW LOOKING FOR NEW PRODUCTS TO [01:36:18] PRODUCE. IS THERE A POTENTIAL UPSIDE FOR [01:36:22] SAF? AND ARE YOU SEEING THAT IN ANY [01:36:23] DISCUSSIONS? THAT IS AN EXCELLENT POINT [01:36:26] AND SUPER OBSERVANT, AND IN FACT, WHEN [01:36:28] THE FAA MODELED THE DIFFERENT SCENARIOS [01:36:31] FOR THE FUTURE IN THE GRAPH THAT I [01:36:34] SHOWED YOU EARLIER, THEY ACTUALLY [01:36:36] MODELED HIGH AND LOW SCENARIOS FOR HOW [01:36:39] MUCH ELECTRIFICATION WOULD BE HAPPENING [01:36:41] IN THE GROUND TRANSPORTATION SECTOR AND [01:36:43] WHAT THAT IMPACT COULD BE FOR MORE SAF [01:36:46] PRODUCTION. SO WE HOPE AND ANTICIPATE [01:36:50] THAT AS THERE'S LESS DEMAND FOR THAT, [01:36:52] YOU COULD ACTUALLY MOVE MORE OF THAT [01:36:53] FRACTION, THERE'S LESS DEMAND FOR ONROAD [01:36:55] FUELS THAT YOU CAN MOVE SOME OF THOSE [01:36:56] FEEDSTOCKS AND SOME OF THAT USE INTO THE [01:36:59] HARDER TO ABATE SECTORS LIKE MARINE AND [01:37:01] AVIATION. SO FOR THOSE WHO WANT TO DO [01:37:04] SOMETHING FOR STAFF TODAY, GO BUY AN [01:37:06] ELECTRIC BIKE. [01:37:09] EXCELLENT. [01:37:13] ALL RIGHT. AND WITH THAT, IF WE CAN [01:37:15] ADVANCE THE SLIDES, IT'S NOW TIME FOR [01:37:17] OUR POLICY DEEP DIVE. SO WE'LL MOVE [01:37:20] FIRST TO THE FEDERAL POLICY WITH ERIC [01:37:22] SCHINFELD. ALL RIGHT, WELL, GOOD [01:37:24] MORNING, COMMISSIONER, HAPPY TO BE HERE. [01:37:25] I WILL GO VERY QUICKLY SO YOU CAN HEAR [01:37:27] FROM EXECUTIVE DIRECTOR FITCH AS MUCH AS [01:37:29] POSSIBLE. THE SHORT VERSION OF THIS [01:37:32] STORY IS THAT WE HAVE MADE INCREDIBLE, [01:37:34] INCREDIBLE PROGRESS AT THE FEDERAL [01:37:35] LEVEL. IT'S FANTASTIC NEWS, LOTS STILL [01:37:38] TO DO. BUT THE AMOUNT OF MOMENTUM, AS [01:37:40] SORT OF COMMISSIONER CULKINS REFERENCED [01:37:42] EARLIER, THAT FEELING THAT WE'RE [01:37:44] STARTING TO GET TO A TIPPING POINT IS [01:37:46] REALLY FELT AT THE FEDERAL LEVEL. I WANT [01:37:48] TO HIGHLIGHT A COUPLE OF RECENT WINS AND [01:37:50] THEN A COUPLE OF THINGS THAT WE'RE STILL [01:37:51] WORKING ON. SO TWO MAJOR PARTS OF THE [01:37:54] INFLATION REDUCTION ACT, WHICH WAS [01:37:55] PASSED LAST YEAR, THE FIRST, AS [01:37:57] STEPHANIE HAS MENTIONED A FEW TIMES, IS [01:37:58] THE SAF BLENDERS TAX CREDITS. SO THAT IS [01:38:01] RIGHT NOW A DOLLAR 25 PER GALLON FOR [01:38:03] EACH GALLON OF SAF. THAT IS AT LEAST A [01:38:06] 50% REDUCTION IN GREENHOUSE GASES. AND [01:38:09] THEN AN ADDITIONAL PENNY FOR EACH [01:38:12] PERCENTAGE UP TO A DOLLAR 75. RIGHT? SO [01:38:14] YOU'RE AT A DOLLAR 25 FOR 50%. YOU'RE AT [01:38:17] A DOLLAR 50 FOR 75% AND A DOLLAR 75 [01:38:21] FOR 100%. I JUST DID THAT MATH ON MY OWN [01:38:24] RIGHT THERE. SO VERY EXCITING THAT SAF [01:38:27] BLENDERS TAX CREDIT IS NOT YET FULLY [01:38:29] IMPLEMENTED. RIGHT NOW. THE US.



	1:38:31] TREASURY DEPARTMENT IS DOING ITS
[0	1:38:32] RULEMAKING PROCESS. AND SO ONE OF THE
ſΩ	1:38:34] THINGS I WANTED TO CALL OUT IS A LOT OF
	1:38:36] EFFORTS THAT WE'VE BEEN INVOLVED IN WITH
[0	1:38:38] THE LARGER NATIONAL STAFF COALITION TO
ĪΩ	1:38:40] GET OUR MEMBERS OF CONGRESS INVOLVED TO
	1:38:43] COMMUNICATE DIRECTLY TO TREASURY AROUND
[0	1:38:46] EXACTLY HOW TO IMPLEMENT THIS PROVISION.
[0	1:38:48] ONE OF THE MOST IMPORTANT THINGS IS HOW
	1:38:50] DO YOU MEASURE THE GREENHOUSE GAS
	1:38:51] REDUCTION? RIGHT? AND SO I WILL NOT GO
[0	1:38:54] INTO DETAIL ON THE DIFFERENCE BETWEEN
	1:38:56] CORSIA AND GREET. I HONESTLY DON'T KNOW
-	1:38:58] THE DIFFERENCE. BUT I CAN TELL YOU THAT
[0	1:39:00] WE WANT GREET AND NOT JUST CORCIA. SO
Ŋ	1:39:03] WE'RE WORKING VERY HARD ON THAT. NEXT
	1:39:05] SLIDE, PLEASE.
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	1:39:11] THE OTHER PROVISION IN THE INFLATION
[0	1:39:13] REDUCTION ACT WAS THIS FAST SAF GRANT
	1:39:16] PROGRAM FUELING AVIATION SUSTAINABLE
	1:39:18] TRANSITION VIA SUSTAINABLE AVIATION
[0	1:39:20] FUELS. SO THAT'S \$300 MILLION. IT'S
	1:39:23] REALLY DIVIDED INTO TWO BUCKETS. ONE IS
	1:39:25] FOR SPECIFICALLY SAF PRODUCTION,
[0	1:39:27] TRANSPORTATION, BLENDING AND STORAGE.
[0	1:39:29] THE OTHER IS TECHNICALLY FOR THE
	1:39:31] DEVELOPMENT OF LOW EMISSION AVIATION
	1:39:34] TECHNOLOGIES. SO IT COULD BE BROADER
[0	1:39:36] THAN SAF. WE HAVE HEARD VERY CLEARLY
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[01:40:57] REALLY PUSHING FOR SAF AND THIS IS	
[01:40:59] REALLY AN INDUSTRY PUSH, THAT THIS WOULD	
[01:41:01] BE A BIPARTISAN ISSUE AND HAS NOT BEEN	
[01:41:02] SO FAR. AND SO WE ARE NOT SEEING THAT	
[01:41:05] BIPARTISAN SUPPORT, AND THEREFORE IT HAS	
	_
[01:41:07] CURRENTLY BEEN KEPT OUT OF THE HOUSE AND	כ
[01:41:09] SENATE FAA BILLS. THIS THURSDAY IS THE	
[01:41:12] SENATE COMMERCE COMMITTEE MARKUP OF TH	ΙF
[01:41:14] SENATE VERSION. CHAIR CANTWELL HERSELF	
[01:41:17] WILL BE OFFERING AN AMENDMENT ON STAFF.	
[01:41:19] AND SO WE'RE WORKING VERY HARD WITH OUR	
[01:41:22] NATIONAL COALITION TO GET BIPARTISAN	
[01:41:23] SUPPORT FOR THAT AMENDMENT. IT WOULD DO	
[01:41:25] A NUMBER OF THINGS, INCREASING THE	
[01:41:28] AUTHORIZATION FOR THIS FAST SAF PROGRAM,	
[01:41:31] EXTENDING THE BLENDER'S TAX CREDIT TO	
[01:41:33] TEN YEARS, AND IT WOULD ALSO MANDATE	
[01:41:37] THAT GREET IS USED BY THE US.	
[01:41:39] DEPARTMENT OF TREASURY. AGAIN, WHATEVER	
[01:41:41] THAT IS, I DID WANT TO SAY ON THAT	
[01:41:43] SECOND BULLET OF TEN YEARS. SO THE WAY	
[01:41:45] THE INFLATION REDUCTION ACT INSTITUTED	
[01:41:47] THE SAF BLENDERS TAX CREDITS IS THERE'S	
[01:41:50] A SAF BLENDER'S TAX CREDIT FOR JUST TWO	
[01:41:52] YEARS AND THEN IT TRANSITIONS INTO THE	
[01:41:55] OVERALL CLEAN FUELS TAX CREDITS,	
[01:41:57] WHICH CHAIRMAN WYDEN, THE SENATE CHAIR	
[01:42:00] OF FINANCE, REALLY FELT STRONGLY ABOUT	
[01:42:02] THAT ALL OF THE TAX CREDITS SHOULD BE	
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[01:42:04] FUEL NEUTRAL. AND WE APPRECIATE THAT IN	
[01:42:06] THEORY, BUT IN PRACTICE, SAF IS SO FAR	
[01:42:09] BEHIND ALL OF THE OTHER ALTERNATIVE	
[01:42:11] FUELS THAT WE REALLY BELIEVE THAT WE	
[01:42:13] REALLY NEED THAT TEN YEAR PATHWAY TO	
[01:42:15] CATCH UP AND THEN GREAT, PUT IT INTO THE	
[01:42:15] CATCH UP AND THEN GREAT, PUT IT INTO THE	
[01:42:16] CLEAN FUEL TAX CREDIT. WE CAN COMPETE	
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[01:43:19] COMMERCIALIZATION. SO FARM BILL IS MUCH
[01:43:22] FURTHER BEHIND THAN FAA BILL, BUT WE'LL
[01:43:23] BE CONTINUING TO TRACK THIS AS WE GO
[01:43:25] INTO THE NEXT FEW MONTHS. AND THEN NEXT
[01:43:27] SLIDE, FINAL SLIDE HERE. SO MANY
[01:43:31] OF YOU KNOW THAT LAST YEAR IN THE
[01:43:32] NATIONAL DEFENSE AUTHORIZATION ACT, WE
[01:43:34] WORKED WITH THEN CHAIRMAN OF THE HOUSE
[01:43:36] ARMED SERVICES COMMITTEE, NOW RANKING
[01:43:37] MEMBER ADAM SMITH, TO INSTITUTE A
[01:43:40] PROVISION IN LAST YEAR'S NDA THAT
[01:43:43] DIRECTS THE SECRETARY OF DEFENSE TO
[01:43:44] IDENTIFY TWO BASES FOR DEVELOPMENT OF A
[01:43:48] SUSTAINABLE AVIATION FUEL PLAN. ONE OF
[01:43:50] THOSE FACILITIES NEEDS TO BE A FACILITY
[01:43:52] WITH AN ONSITE REFINERY LOCATED IN
[01:43:54] PROXIMITY TO A MAJOR COMMERCIAL AIRPORT
[01:43:56] THAT IS ALSO ACTIVELY SEEKING TO
[01:43:58] INCREASE THE USE OF SUSTAINABILITY FUEL.
[01:43:59] SO FINGERS CROSSED THAT THAT WOULD BE
[01:44:02] JOINT BASE LEWIS MCCORD NEAR SEATTLE
[01:44:04] TACOMA INTERNATIONAL AIRPORT. RIGHT NOW,
[01:44:06] WE'RE WORKING VERY CLOSELY WITH
[01:44:08] REPRESENTATIVE SMITH AND REPRESENTATIVE
[01:44:09] STRICKLAND AND OTHER MEMBERS OF OUR
[01:44:11] CONGRESSIONAL DELEGATION TO WORK WITH
[01:44:12] DOD TO REALLY HELP SHAPE WHAT THEIR
[01:44:16] PROCESS IS LIKE, TO IDENTIFY WHAT THOSE
[01:44:17] TWO BASES ARE AND ALSO WORKING DIRECTLY
[01:44:19] WITH JBLM IN TERMS OF HELPING TO HELP
[01:44:23] THEM UNDERSTAND WHAT THIS WOULD BE SO
[01:44:25] THEY UNDERSTAND HOW IT COULD FIT INTO
[01:44:26] THEIR OVERALL PLANS. AND THOSE ARE THE
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[01:44:29] FEDERAL UPDATES.
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[01:45:33] MECHANISM THAT COULD BE PUT IN PLACE. [01:45:35] BECAUSE OF THAT, PORT OF SEATTLE STARTED [01:45:37] PUSHING AGGRESSIVELY FOR LCFS, MAKING [01:45:39] SURE THAT IT HAD THE AVIATION OPT IN [01:45:41] WHICH THE BILL DID WHEN IT WAS FINALLY [01:45:44] ADOPTED IN 2021. WHEN LCFS WAS [01:45:47] ADOPTED IN 2021, WE TURNED OUR ATTENTION [01:45:50] TO RULEMAKING, AND THIS IS SIGNIFICANT [01:45:52] BECAUSE WE ASKED THE STATE DEPARTMENT OF [01:45:54] ECOLOGY TO DO A FEW. THINGS IN [01:45:56] RULEMAKING WITH A COALITION OF OTHER [01:45:58] INTERESTED SAF ENTITIES WHICH THEY [01:46:01] DIDN'T DO. SO THOSE TWO, NOTABLY, WHICH [01:46:04] HAVE BEEN REFERENCED HERE BEFORE, WERE [01:46:05] TO REQUIRE A PATHWAY WITHIN THE LOW [01:46:08] CARBON FUEL STANDARD THAT WOULD ALLOW [01:46:10] SAF TO EARN CREDITS. THE INITIAL RULE [01:46:13] FROM ECOLOGY DID NOT HAVE THAT PATHWAY. [01:46:16] HENCE SAF COULDN'T EARN CREDITS UNTIL [01:46:18] 2025 THEREBY DELAYING THAT THE PRICE [01:46:20] IMPACTS THAT WE WERE HOPING THE LCFS [01:46:23] WOULD HAVE. THE OTHER WAS THE [01:46:24] ELIGIBILITY FOR BIOMETHANE OR RENEWABLE [01:46:26] DIESEL TO BE CONSIDERED A FEEDSTOCK. [01:46:28] THE REASON I NOTE OUR FAILURE IN THAT IS [01:46:30] THAT WE TURNED THE RULEMAKING CHALLENGES [01:46:34] INTO PART OF THE LEGISLATION THAT ENDED [01:46:36] UP BEING BROUGHT FORWARD. THE OTHER [01:46:38] THING THAT HAPPENED WAS IN FALL OF 2022 [01:46:40] THE SUSTAINABLE AVIATION BIOFUELS WORK [01:46:42] GROUP RECOMMENDED TO THE LEGISLATURE A [01:46:44] NUMBER OF TAX PREFERENCES THAT COULD BE [01:46:46] PUT IN PLACE TO SPEED THE DEPLOYMENT OF [01:46:49] SAF, AT THAT TIME WE MET WITH [01:46:52] AMAZON, STEPHANIE, MINE AND I WHEN I WAS [01:46:54] STILL AT THE PORT OF SEATTLE AND A [01:46:55] NUMBER OF OTHER FUTURE COALITION [01:46:57] PARTNERS TO CONTEMPLATE A BILL THAT [01:46:59] WOULD REQUIRE DEPARTMENT OF ECOLOGY TO [01:47:01] STUDY WHAT INCENTIVES COULD BE PUT IN [01:47:03] PLACE. BUT LUCKILY, SENATOR BILLIG FROM [01:47:05] SPOKANE WHO REPRESENTS SPOKANE AIRPORT [01:47:08] AND IS ALSO CONVENIENTLY, THE SENATE [01:47:09] MAJORITY LEADER SAID WHY WOULD WE STUDY [01:47:11] WHAT INCENTIVES TO PUT IN PLACE WHEN WE [01:47:13] COULD JUST RUN A BILL PUTTING INCENTIVES [01:47:15] IN PLACE? IT WAS AYE. LEADERSHIP AND AYE. [01:47:17] WILLINGNESS TO PUSH THE ENVELOPE THAT [01:47:19] REALLY HELPED LEND MOMENTUM TO THIS [01:47:21] EFFORT. SO MICHELLE, IF YOU'LL ADVANCE [01:47:24] THE SLIDE, I WANT TO TALK NOW ABOUT THE [01:47:27] IMPORTANT ELEMENTS OF SENATE BILL 54 47. [01:47:31] THERE WERE TWO BNO TAX PREFERENCES. ONE [01:47:34] WAS A PREFERENCE FOR MANUFACTURING AND [01:47:36] WHOLESALE OF STAFF. THE OTHER IS A [01:47:38] CREDIT FOR PURCHASE AND SALE. SO [01:47:41] NOTABLY, JUST AS ERIC DESCRIBED THE [01:47:43] SLIDING SCALE OF THE PURCHASE AND SALE [01:47:45] TAX CREDIT, FOR 50% CLEANER SAF, [01:47:49] YOU GET A DOLLAR. FOR 100% CLEANER SAF [01:47:52] YOU GET \$2. SO THE IDEA IS THAT FOR [01:47:55] BETTER CARBON INTENSITY OF PRODUCT YOU [01:47:57] GET A GREATER INCENTIVE AND HOPEFULLY



[01:47:59] THAT WILL HELP EXPAND THE [01:48:03] BENEFITS THAT FOLKS SEE FROM THIS. [01:48:06] ALSO KEY TO NOTE THE BILL REQUIRES THAT [01:48:10] 20 MILLION GALLONS OF IN STATE [01:48:12] PRODUCTION OCCUR BEFORE YOU CAN GET A [01:48:14] CREDIT FOR PURCHASE AND SALE. SO THE [01:48:17] FOCUS OF THE LEGISLATION THAT WE WPPA [01:48:20] PORT OF SEATTLE AND OTHER COALITION [01:48:22] MEMBERS SUPPORTED WAS ON DEVELOPMENT AND [01:48:25] THE EMPLOYMENT AND ECONOMIC DEVELOPMENT [01:48:27] THAT THAT BRINGS TO COMMUNITIES. THE THE [01:48:29] BENEFIT FOR USE OF SAF COMES LATER ONCE [01:48:31] WE HAVE PRODUCTION IN PLACE. THE TIER [01:48:34] ONE PATHWAY THAT I MENTIONED EARLIER [01:48:36] REQUIRING ECOLOGY TO MAKE ESSAY OF A [01:48:38] TIER ONE PATHWAY WAS ALSO IN THE [01:48:39] LEGISLATION AND THE LEGISLATION REQUIRES [01:48:42] BIOMETHANE TO BE CONSIDERED AS AN [01:48:44] ELIGIBLE FEEDSTOCK. THE BILL INCLUDED A [01:48:46] MULTIPLIER. STEPHANIE MADE REFERENCE, I [01:48:48] THINK, AS DID ERIC, TO THE OBVIOUS FACT [01:48:51] THAT RENEWABLE DIESEL IS EASIER TO [01:48:53] PRODUCE AND EARNS A CREDIT UNDER THE LOW [01:48:56] CARBON FUEL STANDARD THAT'S EQUAL TO THE [01:48:57] CREDIT EARNED BY SAF. SO WHY WOULD YOU [01:49:00] PRODUCE SAF INSTEAD OF RENEWABLE DIESEL? [01:49:02] WE PUT LANGUAGE IN THE BILL THAT WOULD [01:49:04] HAVE GIVEN A MULTIPLIER TO SAF AND HENCE [01:49:07] INCENTED FOR THE SAF PRODUCTION [01:49:09] ALONGSIDE RENEWABLE DIESEL TO TRY TO [01:49:11] MAKE BACK SOME OF THE GAINS THAT WE [01:49:15] NEED. THAT ELEMENT WAS REMOVED. IT WAS [01:49:18] SOMEWHAT CONTROVERSIAL, NAMELY BECAUSE 101:49:201 YOU HAD TO AMEND THE LOW CARBON FUEL [01:49:22] STANDARD STATUTE IN ORDER TO PUT THAT [01:49:23] MULTIPLIER IN PLACE, WHICH SEVERAL [01:49:25] ENVIRONMENTAL GROUPS WERE CONCERNED [01:49:27] ABOUT. I PUT MEMBERS OF THE COALITION UP [01:49:29] HERE BECAUSE, AS YOU KNOW, WHEN I WORKED [01:49:30] FOR THE PORT OF SEATTLE, MY MOTTO WAS, [01:49:32] NOBODY CARES WHAT THE PORT OF SEATTLE [01:49:33] THINKS, MEANING WE DON'T DO ANYTHING [01:49:35] WITHOUT OUR PARTNERS, PARTNERS AT WPBA. [01:49:38] I HAVE A BIT OF A DIFFERENT MOTTO NOW, [01:49:41] BECAUSE I CARE WHAT THE PORT OF SEATTLE [01:49:42] THINKS. BUT YOU DO SEE HERE A REALLY [01:49:45] WIDE VARIETY OF SUPPORTERS. THE AVIATION [01:49:48] INDUSTRY, ALASKA AND DELTA ALWAYS AS [01:49:50] LEADERS. BOEING JOINING THEM. SPOKANE [01:49:52] AIRPORT IS NOT LISTED ON HERE, BUT THEY [01:49:54] WERE A CRITICAL MEMBER. THE FUEL [01:49:56] PRODUCERS SKY ENERGY AND NESTE, AND [01:49:58] THEN, IMPORTANTLY, OUR PARTNERS AT [01:49:59] LABOR, THE WASHINGTON STATE LABOR [01:50:01] COUNCIL, THE BUILDING AND CONSTRUCTION [01:50:02] TRADES, ALL JOINED IN. SO, [01:50:05] MICHELLE, I'LL DO MY LAST SLIDE HERE, [01:50:07] AND WE CAN SKIP THE NEXT STEPS IF YOU [01:50:09] ADVANCE IT ONE MORE. THE BILL WAS WELL [01:50:11] RECEIVED. IT WAS BIPARTISAN, AS ERIC [01:50:13] SAID. THERE WAS HOPE THAT THE FEDERAL [01:50:15] GOVERNMENT WOULD TAKE THE SAME [01:50:16] BIPARTISAN APPROACH. THEY MAY NOT HAVE,



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	BUT THE STATE DID. WE HAD REPUBLICAN
[01:50:20]	SENATORS JOINING DEMOCRATIC SENATORS ON
[01:50:22]	THE SPONSORSHIP LINE FOR SENATE BILL 54
[01:50:24]	47. THE ENVIRONMENTAL COMMUNITY WAS
	HESITANT. AS I SAID, THEY WERE CONCERNED
	ABOUT THE MULTIPLIER. SO YOU CAN SEE ON
	THIS SLIDE THE PROGRESSION THAT THE BILL
	TOOK. SORRY, MICHELLE, YOU GO BACK ONE
	SLIDE. THE BILL WAS INTRODUCED IN THE
[01:50:39]	SENATE AND THE MULTIPLIER WAS REMOVED BY
[01:50:41]	AMENDMENT AT THE SENATE COMMITTEE. ON
[01:50:43]	THE SENATE FLOOR, THERE WAS AN AMENDMEN
	ADDED TO THE BILL TO ADDRESS
	ENVIRONMENTAL JUSTICE CONCERNS,
	REQUIRING UW AND WAZOO TO STUDY THE
	ULTRA FINE PARTICULATE EMISSIONS
	REDUCTIONS IN COMMUNITIES AROUND SEATTLE
[01:50:54]	TACOMA INTERNATIONAL AIRPORT. WHEN THE
[01:50:56]	BILL GOT TO THE HOUSE, THERE WAS A
[01:50:57]	CONCERN RAISED BY A TRIBE IN NORTHWEST
	WASHINGTON ABOUT POTENTIAL DEVELOPMENT
	ON TRIBAL LANDS, AND SO THERE WAS AN
	AMENDMENT INCLUDED TO ADDRESS THOSE
	CONCERNS. AND WITH THOSE AMENDMENTS,
	THE BILL PASSED 46 TWO OUT OF THE SENATE
	AND 960 OUT OF THE HOUSE, AND IT WAS
[01:51:13]	SIGNED ON MAY 3 WITH COMMISSIONER
[01:51:14]	MOHAMMED IN ATTENDANCE, REPRESENTING
[01:51:16]	PORTS IN SUPPORT OF THE BILL. SO THE
	LAST SLIDE, AND WHERE I CAN CONCLUDE,
	JUST NOTES, AS EVERYONE HERE HAS,
	THERE'S QUITE A BIT MORE THAT NEEDS TO
	BE DONE. I'D SAY THE MOST IMPORTANT
	THING ON THIS SLIDE IS THAT WE NEED TO
	SITE FACILITIES IN WASHINGTON WHERE WE
	CAN DEVELOP SAF IN STATE. THAT'S GOING
	TO REQUIRE SOME POTENTIAL CHANGES TO HOV
[01:51:35]	WE PERMIT BIG PROJECTS IN THE STATE.
[01:51:36]	AND THAT'S SOMETHING PORT OF SEATTLE,
	WPPA AND OTHER COALITION MEMBERS WERE
	OUT IN FRONT ON DURING OLYMPIA
	LEGISLATIVE SESSION BECAUSE ONE CANNOT
	HAPPEN WITHOUT THE OTHER. SO WITH THAT,
	I'LL CONCLUDE AND HAPPY TO TAKE
	QUESTIONS. THANK YOU.
	COMMISSIONER CALKINS. THIS IS A QUICK
[01:51:54]	ONE FOR SCHINFELD, ACTUALLY. EXCUSE ME,
[01:51:57]	ERIC SCHINFELD,
	IN THE FARM BILL, DOES FORESTRY QUALIFY
	AS FARM? WOULD IT BENEFIT FROM THESE
	THINGS? SO FOREST RESIDUAL THINKING SORT
	OF PAROCHIALLY FOR WASHINGTON STATE. I
	KNOW THAT WE HAVE SIGNIFICANT
	OPPORTUNITIES THERE IF IT WOULD QUALIFY.
	AND I HAD A QUESTION ABOUT BLENDER'S TAX
[01:52:19]	CREDIT EXPIRATION, BUT I THINK YOU
[01:52:20]	ANSWERED IT IN
	EITHER CASE. THERE IS NO EXPIRATION ON
	THE NEW CLEAN FUELS TAX PROGRAM, RIGHT?
	WELL, ALL TAX CREDITS EXPIRE AT THE
	FEDERAL LEVEL AND HAVE TO BE RENEWED AT
	THE END OF THAT TEN YEAR PERIOD. BUT IT
[01:52:34]	WOULD BE MORE INSTITUTIONALIZED AND MORE



101:52:361 OF A SORT OF JUST A NORMAL THING TO DO [01:52:38] AS THE EXISTING TAX CREDITS, FOR [01:52:41] EXAMPLE, RENEWABLE FUELS CONTINUE TO DO. [01:52:45] I WILL SAY IF WE ONLY HAVE TWO YEARS OF [01:52:48] A DEDICATED SAF BLENDER'S TAX CREDIT, [01:52:50] IT WILL STILL HELP. RIGHT? SO WE [01:52:51] SHOULDN'T JUST CRY. BUT I DO THINK THAT [01:52:54] OBVIOUSLY, LIKE I SAID, WE DO WANT THAT [01:52:56] EXTRA BUMP TO HELP THE INDUSTRY FULLY [01:52:58] DEVELOP AND MATURE, THANK YOU, AND I'LL [01:53:01] JUST ADD TO THAT, THAT WHEN YOU LOOK AT [01:53:02] THAT TIMELINE FOR PRODUCTION FACILITIES [01:53:05] THAT YOU SAW IN CHRIS'S PRESENTATION, [01:53:07] FOR PRODUCERS TO FEEL CONFIDENT THAT [01:53:09] THERE IS GOING TO BE A TAX CREDIT WHEN [01:53:11] THEY GET TO THE FINAL, ALL THE [01:53:14] PERMITTING AND DEVELOPMENT AND CAPITAL [01:53:17] INVESTMENT IS DONE. YOU REALLY DO NEED A [01:53:19] STRONGER, LONGER TERM SIGNAL. AND THAT'S [01:53:22] DEFINITELY A CONCERN WE'VE HEARD FROM [01:53:23] THE INDUSTRY. AND IT'S PART OF WHY WE [01:53:26] ALSO INVOLVE YOU COMMISSIONERS IN [01:53:27] HELPING TO SUPPORT AND ADVOCATE FOR [01:53:30] POLICIES THAT REALLY HELP THE INDUSTRY [01:53:32] LONG TERM. WELL, IF WE'VE CHOSEN AN [01:53:35] INCENTIVE VERSUS MANDATE APPROACH, THEN [01:53:37] OUR INCENTIVES BETTER BECAUSE MANDATES, [01:53:40] ONCE THAT STUFF'S BUILT, IT'S BUILT. [01:53:42] IT'S NOT SUBJECT TO EXPIRATION LIKE AN [01:53:44] INCENTIVE IS. AND SO IF WE'RE GOING TO [01:53:45] GO THIS WAY, WE REALLY NEED TO MAKE IT [01:53:47] CERTAIN FOR THOSE INVESTORS. [01:53:53] MR. MOHAMMED, THANK YOU BOTH FOR THE 101:53:561 PRESENTATION, ERIC, I THINK YOU ALWAYS [01:53:59] UNDERSCORE THE FACT THAT IT IS SO [01:54:01] IMPORTANT FOR US TO BE COLLABORATING [01:54:03] WITH OUR FEDERAL AGENCIES. COULD YOU [01:54:05] MAYBE SPEAK TO OUR CONVERSATION AND [01:54:09] OUR INTENT TO ALIGN WITH THE DEPARTMENT [01:54:11] OF TRANSPORTATION AS WELL? YEAH, [01:54:13] ABSOLUTELY. THANK YOU, COMMISSIONER. SO [01:54:14] STEPHANIE MENTIONED EARLIER THE SAF [01:54:16] GRAND CHALLENGE AND THIS IS THE BIDEN [01:54:18] ADMINISTRATION'S WHOLE OF GOVERNMENT [01:54:19] APPROACH. AND IT'S REALLY EXCITING [01:54:21] BECAUSE AS WE KNOW, AS WE'VE BEEN SAYING [01:54:23] FOR YEARS, IT IS OBVIOUSLY THE [01:54:25] DEPARTMENT OF TRANSPORTATION, IT'S [01:54:26] OBVIOUSLY THE DEPARTMENT OF ENERGY, THE [01:54:27] DEPARTMENT OF AGRICULTURE. WE KNOW IT'S [01:54:29] DOD AND THAT'S WHY WE'VE BEEN PUSHING [01:54:31] THROUGH THE NATIONAL DEFENSE [01:54:32] AUTHORIZATION ACT, ET CETERA, ET CETERA. [01:54:34] AND SO THEY REALLY ARE TRYING TO ALIGN [01:54:36] BETTER. I WANT TO GIVE A QUICK SHOUT OUT [01:54:37] TO REPRESENTATIVE DEL BENAY, FOR [01:54:39] EXAMPLE, WHO HAS A BILL TO CREATE A [01:54:41] JOINT OFFICE OF ENERGY AND [01:54:43] TRANSPORTATION TO SPECIFICALLY LOOK AT [01:54:45] ALTERNATIVE FUELS FOR BOTH MARITIME AND [01:54:46] AVIATION. AND THAT'S REALLY IMPORTANT. [01:54:48] SO I THINK WE ARE ALIGNED. I THINK WE'RE [01:54:51] VERY LUCKY THAT THE BIDEN ADMINISTRATION



[01:54:53]	SHARES OUR VALUES AS IT RELATES TO SAF
[01:54:55]	AND HAS BEEN ABLE TO, MOSTLY THROUGH THE
[01:54:57]	INFLATION REDUCTION ACT, REALLY START TO
[01:54:59]	PUT IN PLACE THOSE POLICIES THAT COULD
	BE SUPPORTIVE. AND I THINK EVEN BEYOND
[01:55:05]	THE POLICY PIECE, THAT BULLY PULPIT AND
[01:55:08]	THAT ABILITY TO BRING THE PRIVATE SECTOR
	INTO THE MIX AND HAVE THESE
[01:55:11]	CONVERSATIONS, AGAIN, AS I STARTED WITH
[01:55:14]	REALLY ELEVATES THE CONVERSATION ABOUT
[01:55:15]	STAFF TO A POINT THAT I THINK IS REALLY,
[01:55:17]	REALLY HELPFUL FOR EVERYONE.
[01:55:21]	COMMISSIONER FELLEMAN, I HAVE A QUESTION
[01:55:24]	FOR EXECUTIVE FITCH. WHAT'S WITH THE
	PICTURE OF THE PORT OF TACOMA ON THE
[01:55:31]	FIRST? WELL, YOU'RE NOT THE FIRST TO
[01:55:32]	SPOT THAT. YOU'RE THE FIRST TO CHASTISE
	ME PUBLICLY. BASED IN OLYMPIA. IT'S PORT
[01:55:37]	OF TACOMA'S HARBOR. IT'S ALSO
[01:55:40]	TIED FOR MY TOP 75 FAVORITE PORT
[01:55:43]	DISTRICTS IN THE STATE. ALL RIGHT, JUST
[01:55:46]	FOR THE RECORD, ACTUALLY, I WAS
[01:55:48]	INTERESTED IN A COUPLE OF QUESTIONS.
[01:55:51]	THE QUESTION ABOUT EVALUATING THE
[01:55:53]	IMPACTS OF ULTRA FINES. THAT'S A
[01:55:55]	CHALLENGING QUESTION. I WAS WONDERING
	PERHAPS, STEPHANIE, YOU HAD SOME INSIGHT
[01:55:59]	WITH THE LEGISLATION REQUIRING THIS
	AMENDMENT TO EVALUATE IT. HOW ARE WE
	GOING TO GO ABOUT DOING THAT? WELL, TWO
	UNIVERSITIES ARE NAMED AS HELPING TO DO
	THAT WORK. BOTH UNIVERSITY OF WASHINGTON
	AND WASHINGTON STATE UNIVERSITY, WITH
	THE POWER OF THE ENTIRE FAA ASCENT
	RESEARCH COMMUNITY BEHIND THEM, WILL BE
	TASKED WITH THAT CHALLENGE. BUT THERE
	HAS BEEN A LOT OF RESEARCH BEING DONE AT
	THE FEDERAL AND INTERNATIONAL LEVELS TO
	LOOK AT WHAT THE ULTRA FINE PARTICULATE
	REDUCTIONS ARE, DEPENDING ON WHAT IS
	HAPPENING IN THE ENGINE THRUST
	CONDITIONS OF THE AIRCRAFT, DEPENDING ON
	WHAT PHASE OF LANDING OR TAKEOFF IT'S
	IN, AS WELL AS WHAT PERCENTAGE OF SAF IS
	IN THE ENGINE AT THAT TIME. IT WILL BE
	CHALLENGING TO DO THAT FOR ANYTHING
	LANDING HERE, OF COURSE. BUT THE FOCUS,
	I THINK, WILL BE THAT WE WILL GIVE ANY
	DATA ON SAF THAT'S UPLOADED HERE AT
	SEATAC AND GIVE THAT INFORMATION TO THOSE
	UNIVERSITIES TO WORK ON THAT. BUT
	THEY'LL BE USING THE LATEST SCIENCE THAT
	IS OUT THERE, THAT IS MEASURING THOSE
	IMPACTS AT THE ENGINE EXHAUST
	LEVEL OF THE AIRCRAFT. LET ME JUST
	COMPILE THE SCIENCE RATHER THAN DO IT.
	WE'RE NOT DOING EXPERIMENTS. THEY'RE
	GOING TO BE DOING THE CALCULATIONS BASED
	ON THE EXISTING SCIENCE. JUST REALLY
	QUICKLY, I WANT TO CALL OUT THAT
	REPRESENTATIVE SMITH HAS A BILL THAT
	WOULD REQUIRE A FEDERAL STUDY OF UFPS,
11111-67-21	AND SPECIFICALLY LOOKING AT LIFPS RELATED



101:57:231 TO STAFF. THAT LEGISLATION DID MAKE IT [01:57:25] INTO THE HOUSE VERSION OF THE FAA BILL. [01:57:28] AND SO WE'RE HOPEFUL THAT WILL BECOME [01:57:29] LAW AS WELL. GREAT, BECAUSE I KNOW [01:57:31] THERE'S A LOT OF INTEREST IN THAT. I [01:57:32] ALSO WAS WONDERING WHETHER THIS EVERETT [01:57:34] CENTER AT PAINT FIELD, THIS WAS [01:57:36] SOMETHING THAT CAME OUT OF THE BLUE. I [01:57:38] DON'T KNOW. DO YOU HAVE ANY BACKGROUND [01:57:40] ON ARE THEY GOING TO BE INVOLVED IN [01:57:41] SOMETHING LIKE THIS? THAT CENTER IS [01:57:45] FOCUSED A LOT ON THE QUALIFICATIONS, [01:57:47] THE CHEMICAL QUALIFICATIONS, THE ASTM [01:57:49] STANDARD OF FUELS. SO IT'S GOING TO BE [01:57:52] VERY MUCH IT'S AN EXTENSION OF ONE OF [01:57:53] THE MAJOR RESEARCHERS AT WSU AND I THINK [01:57:56] IT'S ALSO IN PARTNERSHIP WITH PNNL TO [01:58:00] ESTABLISH THAT FACILITY AT PAYNE FIELD. [01:58:03] SO IT IS MORE FOCUSED ON TESTING AND [01:58:07] QUALIFICATION OF FUELS THAN IT IS [01:58:10] BROADER THAN THAT, FROM MY [01:58:11] UNDERSTANDING. IF ANYONE WOULD LIKE TO [01:58:13] ADD MORE TO THEIR UNDERSTANDING. SO [01:58:15] THAT'S MY KNOWLEDGE ABOUT THAT FACILITY [01:58:18] AT PAIN. IT'S VERY MUCH FOCUSED ON FUEL [01:58:20] TESTING. OKAY, SO THE LAST THING IS ERIC [01:58:24] JUST MENTIONED A COUPLE OF VERY QUICKLY [01:58:27] MOVING PIECES OF LEGISLATION THAT AT THE [01:58:31] FEDERAL LEVEL THAT MIGHT NEED OUR [01:58:33] ATTENTION THAT I LOVE THE FARM TO FLY [01:58:36] CENTER. THAT'S A WHOLE NEW TERM OF ART [01:58:39] FOR ME. BUT OBVIOUSLY THE CANTWELL [01:58:41] AMENDMENT FOR THIS WEEK'S MARKUP OF THE [01:58:44] COMMERCE, SO THAT SEEMS PRETTY PRESSING. [01:58:48] I DON'T KNOW WHETHER WE HAVE ENGENDERED [01:58:50] OUR COALITION TO WEIGH IN ON THAT. YES, [01:58:53] WE HAVE. WE ACTUALLY HAD A REALLY GREAT [01:58:55] CALL YESTERDAY WITH STAFF FROM SENATOR [01:58:57] CANTWELL AND SENATOR WARNOCK'S OFFICES. [01:59:00] THE CHALLENGE AGAIN IS BECAUSE IN THE [01:59:02] SENATE THIS BILL HAS TO PASS WITH 60 [01:59:04] VOTES. THEY REALLY DON'T WANT IT TO BE A [01:59:06] PARTISAN AMENDMENT. UNFORTUNATELY, THE [01:59:08] RANKING MEMBER OF SENATE COMMERCE, [01:59:09] SENATOR TED CRUISE, IS NOT ONLY OPPOSED TO [01:59:12] STAFF, BUT ALSO OPPOSED TO ANY POLICIES [01:59:15] RELATED TO REDUCING AIRCRAFT EMISSIONS. [01:59:17] SO WE ARE TALKING TO SOME OTHER [01:59:20] REPUBLICANS ON THE COMMITTEE WHO ARE [01:59:22] FROM FARM STATES WHO BENEFIT FROM THE [01:59:23] RFS AND HOPING TO GET THEIR SUPPORT. I [01:59:27] WOULD THINK THAT WOULD BE A NATURAL [01:59:28] ALLIANCE. AND THEN I GUESS WE ALSO HAVE [01:59:31] WHATEVER THE IMPLEMENTATION OF [01:59:35] THE RULEMAKING FOR THE LENDERS TAX [01:59:38] CREDIT AND THEN THE DECISION MAKING [01:59:40] PROCESS FOR THE DOD PILOT PROJECT. [01:59:43] AND SO DO YOU HAVE ANY OTHER IDEA WHAT [01:59:46] TIME FRAMES WE'RE TALKING ABOUT HERE? [01:59:48] SO I THINK THAT THE TREASURY GUIDANCE [01:59:52] ON THE SAF LENDERS TAX CREDIT SHOULD BE [01:59:54] THIS YEAR. LIKE I SAID, I THINK I GOT AN [01:59:57] UPDATE YESTERDAY THAT THE GRANT PROGRAM



[01:59:59] FOR SAF THROUGH DOT WILL PROBABLY BE [02:00:01] BEGINNING OF NEXT YEAR. WE DO BELIEVE [02:00:05] THAT THE DOD WILL PUT SOMETHING IN PLACE [02:00:07] THIS YEAR. WE JUST HAD A CALL WITH ADAM [02:00:08] SMITH'S OFFICE AGAIN AND THEY'RE TRYING [02:00:11] TO DETERMINE THAT IT IS SO MANY THINGS [02:00:13] IN THE NDAA AND SO MANY THINGS GOING ON, [02:00:15] PARTICULARLY WITH UKRAINE, THAT THIS HAS [02:00:17] NOT BEEN THE TOP OF THEIR PRIORITY LIST. 102:00:18] BUT WE ARE TRYING TO MAKE SURE THAT ONCE [02:00:20] THEY GET TO IT, THEY REALLY DO CONSIDER [02:00:23] OUR FEEDBACK AND LOOK AT THIS REGION [02:00:25] BECAUSE AGAIN, THE WHOLE POINT OF THAT [02:00:27] NDA PROVISION IS THAT WE NEED TO CREATE [02:00:29] THAT REGIONAL DEMAND SIGNAL. AND SEATAC [02:00:32] ALONE IS PRETTY GOOD, BUT SEATAC AND [02:00:35] MCCORD WOULD BE REALLY GOOD. THANK YOU [02:00:38] VERY MUCH. AND ALL YOUR WORK ON THAT. [02:00:44] WELL, THANK YOU SO MUCH. I DON'T THINK [02:00:46] ANY OF THIS WOULD BE POSSIBLE WITHOUT [02:00:47] YOUR SUBJECT MATTER EXPERTISE, YOUR [02:00:49] CREATIVITY, [02:00:53] YOUR ADVOCACY. I RECOGNIZE THE HARD WORK [02:00:55] THAT YOU'VE ALL PUT IN, INCLUDING ON [02:00:57] WEEKENDS AND WEEKNIGHTS, IN ORDER TO [02:00:58] BRING US TO WHERE WE ARE TODAY. AND WE [02:01:01] ARE YOUR PARTNERS IN HELPING SEE THIS 102:01:051 THROUGH FOR THE BENEFIT OF NOT JUST OUR [02:01:08] LOCAL BUSINESSES, OUR COMMUNITY MEMBERS, [02:01:10] OUR ENVIRONMENT, ALL OF US ARE [02:01:11] STAKEHOLDERS IN THIS. SO THANK YOU SO [02:01:13] MUCH FOR THIS TREMENDOUS PRESENTATION. [02:01:16] WITHOUT ANY FURTHER QUESTIONS OR [02:01:17] COMMENTS FROM MY COLLEAGUES. WE ARE AT [02:01:19] THE END OF OUR MORNING STUDY SESSION. [02:01:21] SO, EXECUTIVE DIRECTOR METRUCK, DO YOU [02:01:23] HAVE ANYTHING ELSE BEFORE WE CLOSE UP? [02:01:26] THANKS, COMMISSIONERS, FOR JUST [02:01:29] YOUR ATTENTION AND ALL YOUR QUESTIONS ON [02:01:31] THIS. AND ESPECIALLY THANKS TO THE STAFF [02:01:33] AND EXECUTIVE DIRECTOR FITCH FOR COMING [02:01:37] HERE AND FOR GIVING US THIS UPDATE ON, [02:01:39] AS YOU CAN TELL, WE'RE WORKING ACROSS [02:01:41] ALL THE DIFFERENT AVENUES TO APPROACH [02:01:43] THIS AND ADVANCE THIS IMPORTANT WORK FOR [02:01:44] US. AND APPRECIATE YOUR FOCUS ON THIS [02:01:48] AND YOUR DRIVE ON THIS TO DRIVE US [02:01:51] FORWARD. SO, THANK YOU, WE APPRECIATE [02:01:52] YOU, DIRECTOR METRUCK. AND WITH THAT, WE [02:01:54] ARE ADJOURNED. THE TIME IS ELEVEN FIVE. [02:01:58] THANK YOU EVERYONE, FOR THE DISCUSSION

**END OF TRANSCRIPT**