Oregon Department of ENERGY

Energy Facility Siting Council Meeting

Virtual Webinar

August 27, 2021









Opening Items:

- Call to Order
- Roll Call
- Announcements



Announcements:

- Reminder that this meeting is being held in it's entirety via teleconference and webinar.
- Reminder to Council and to anyone addressing the Council to please remember to state your full name clearly, and no not use the speakerphone feature, as it will create feedback.
- You may sign up for email notices by clicking the link on the agenda or the Council webpage.
- You are also welcome to access the online mapping tool and any documents by visiting our website.



Announcements continued:

- Please silence your cell phones
- Please use the "Raise Your Hand" feature in Webex to speak during the public comment period, or press *3 to raise your hand if you are participating by telephone.
- Energy Facility Council meetings shall be conducted in a respectful and courteous manner where everyone is allowed to state their positions at the appropriate times consistent with Council rules and procedures. Willful accusatory, offensive, insulting, threatening, insolent, or slanderous comments which disrupt the Council meeting are not acceptable. Pursuant to Oregon Administrative Rule 345-011-0080, any person who engages in unacceptable conduct which disrupts the meeting may be expelled.



Agenda Item A (Action Item & Information Item)

Consent Calendar

August 27, 2021

- July Council Meeting Minutes
- Council Secretary Report



Agenda Item B (Action Item)

Boardman to Hemingway Transmission Line – Review of Motion By Ms. Irene Gilbert to Remove Contested Case Hearing Officer

August 27, 2021

Jesse Ratcliffe, Oregon Department of Justice Senior Assistant Attorney General



Oral Comment

• Ms. Irene Gilbert

Idaho Power Company



Council Questions/Deliberation





Agenda Item C (Action Item)

Boardman to Hemingway Transmission Line – Review of Interlocutory Appeal by Mr. Michael McCallister

August 27, 2021

Jesse Ratcliffe, Oregon Department of Justice Senior Assistant Attorney General



Oral Comment

• Mr. Michael McAllister

Idaho Power Company

Oregon Department of Energy



Council Questions/Deliberation



Agenda Item D (Information Item)

Project Updates

August 27, 2021
Project Leads, ODOE



Projects Under Review

Applications for Site Certificate

- Bonanza Energy Facility
- Nolin Hills Wind Power Project
- Port Westward Renewable Diesel Project (Exemption Request)
- Wagon Trail Solar Project

Requests for Amendment

- Eugene to Medford Transmission Line
- Stateline Wind Project
- Boardman Solar Energy Facility

Bonanza Energy Facility

Proposal: 150 to 300 MW solar photovoltaic energy generation facility

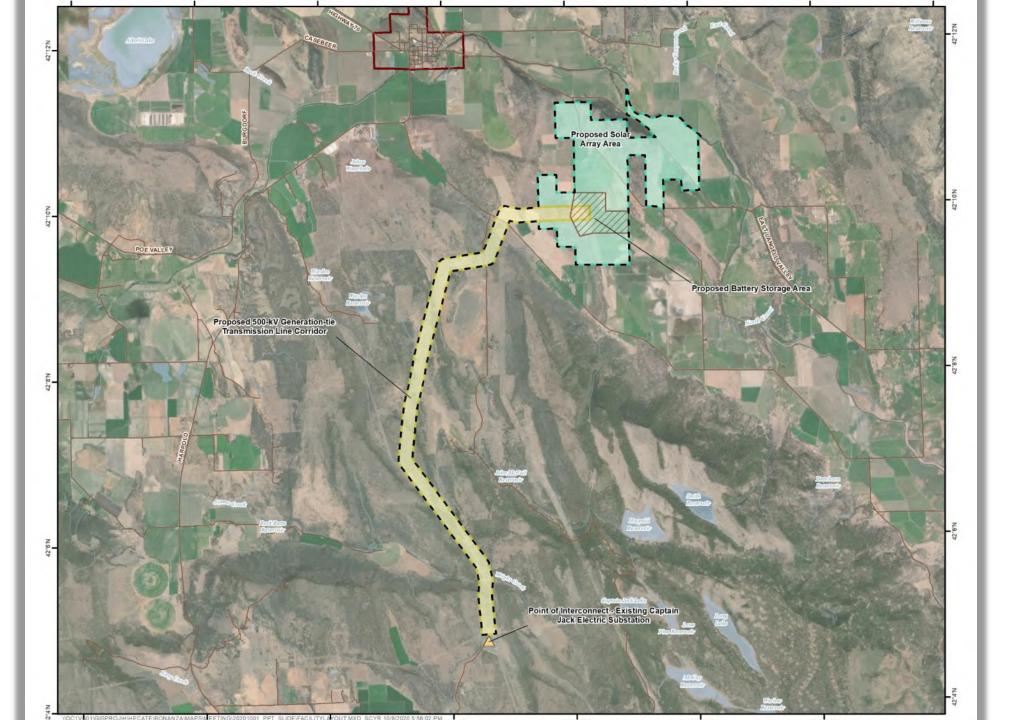
Site Boundary: 2,733 acres (4.2 sq. miles)

Location: Southeast Klamath County, near Bonanza

Applicant: Hecate Energy Bonanza LLC (Hecate Energy NAF LLC)

Status: Preliminary ASC anticipated in late 2021





Nolin Hills Wind Power Project

Proposal: 600 MW wind and solar PV energy generation facility

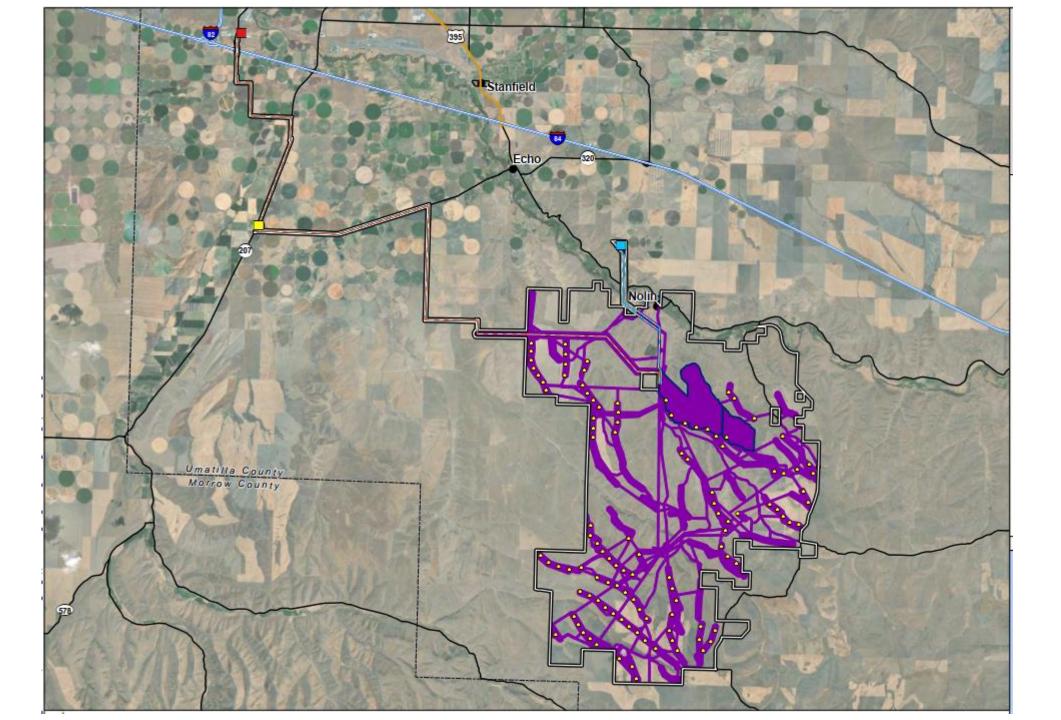
Site Boundary: 48,196 acres with 1,896 acres (2.9 sq. miles) of solar PV

Location: Northwest Umatilla County, near Echo

Applicant: Nolin Hills Wind, LLC (Capital Power Corporation)

Status: Reviewing preliminary ASC for completeness





Eugene to Medford Transmission Line RFA 4

Approved Facility: 146-mile, 500 kV transmission line

Location: Eugene, Lane County, through Douglas County to Medford,

Jackson County

Certificate Holder: PacifiCorp

Approved Facility Status: Operating



Eugene to Medford Transmission Line RFA 4

Amendment Request: Expand site boundary; new 17.6-mile 230 kV transmission line;

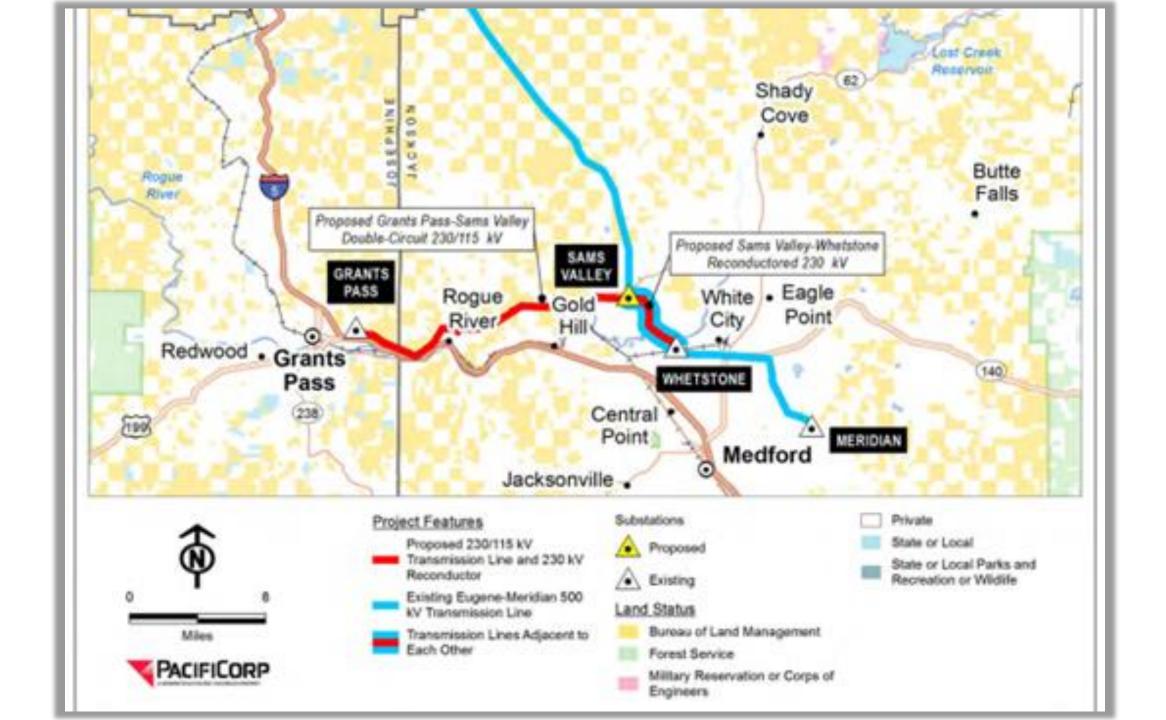
new 500/230 kV substation; reconductor 230 kV transmission line;

temporarily improve existing access roads

Amendment Locations: Jackson and Josephine counties, and the City of Rogue River

Amendment Status: Reviewing preliminary RFA for completeness







Port Westward Renewable Diesel Project

Proposal:

Exemption request for a renewable diesel production facility capable of processing up to 50,000 barrels per day of renewable biomass feedstocks.

Location:

Port Westward Industrial Park, Clatskanie, Columbia County

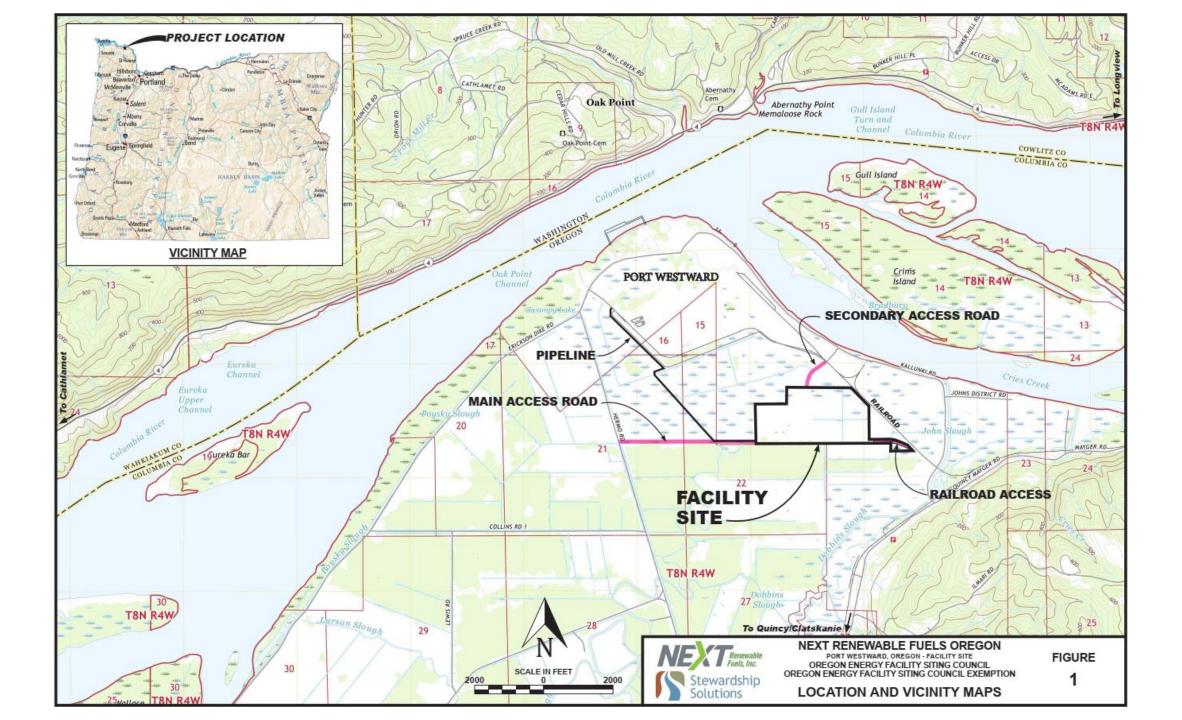
Applicant:

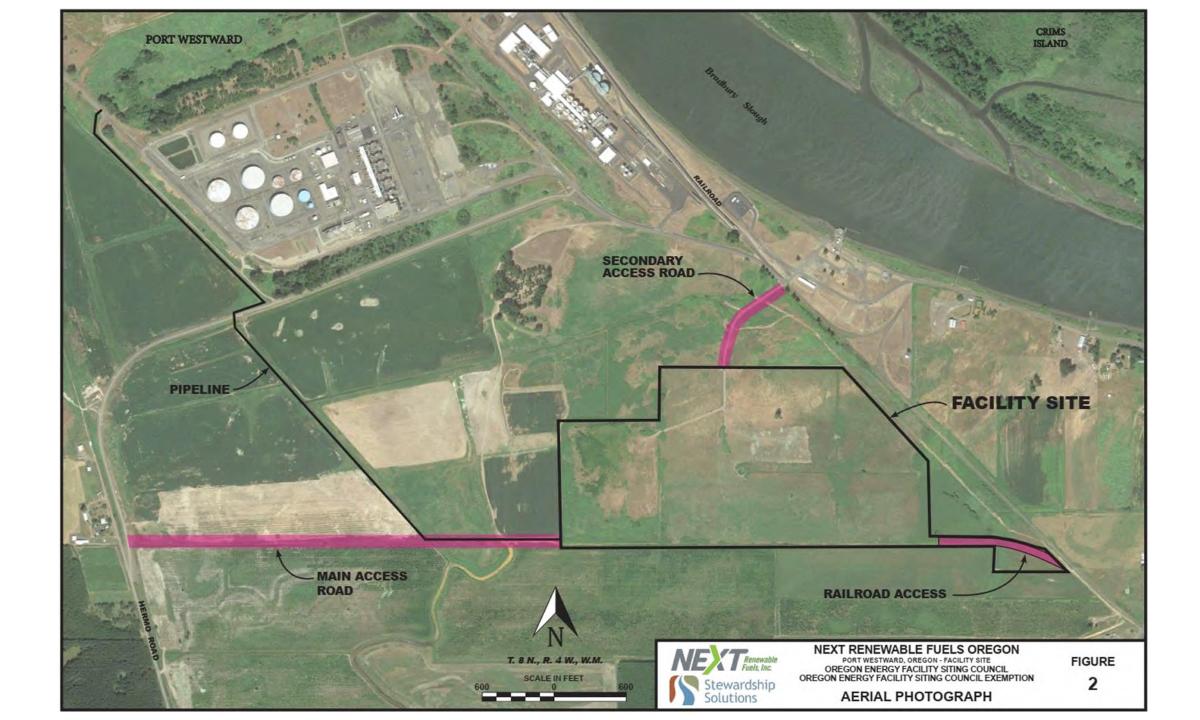
NEXT Renewable Fuels Oregon, LLC

Status:

Determined incomplete. Waiting for local land use approval.







Wagon Trail Solar Project

Proposal: 500 MW solar photovoltaic energy generation facility

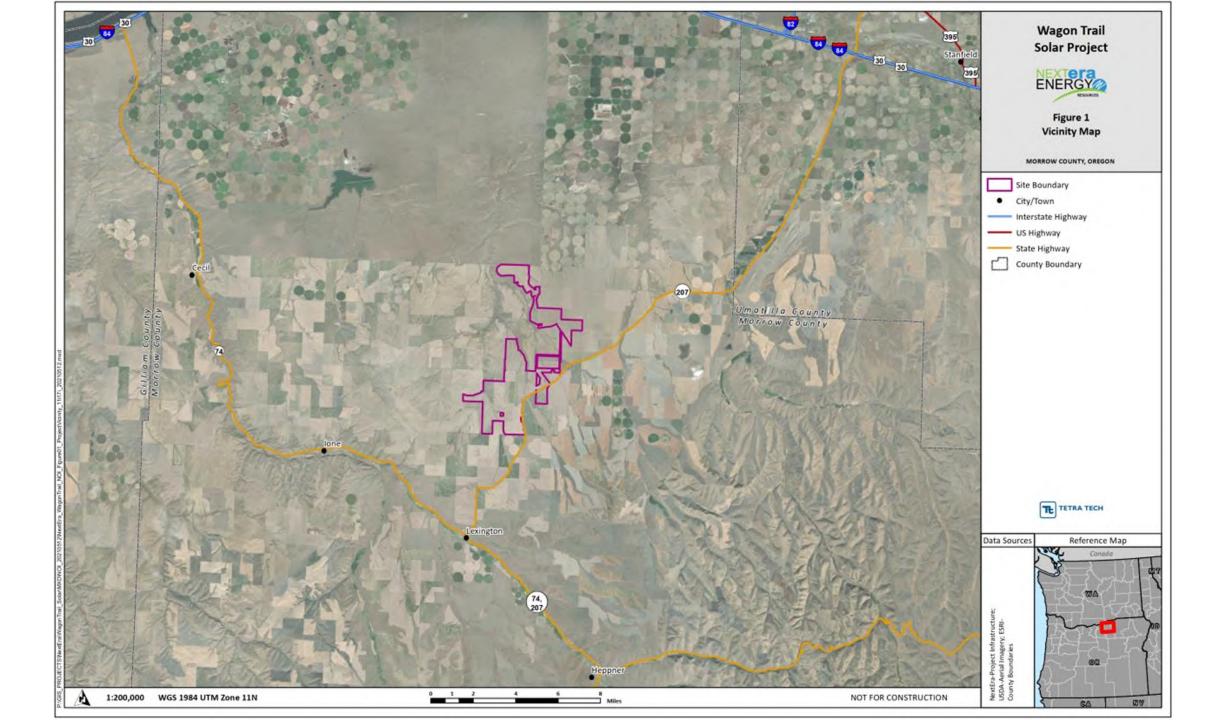
Site Boundary: 7,339 acres (11.47 sq. miles)

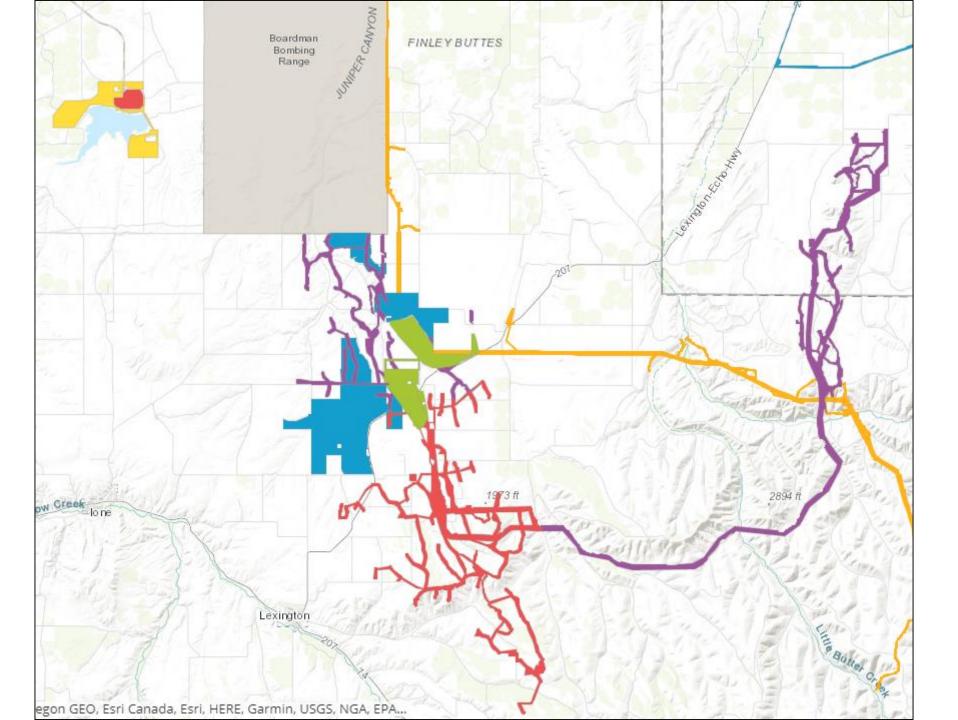
Location: Morrow County, near the City of Arlington

Applicant: Wheatridge East Wind, LLC, (NextEra Energy Resources, LLC)

Status: Preliminary ASC anticipated in late summer 2021







Boardman Solar Energy Facility RFA 1

Approved Facility: 75 MW solar photovoltaic energy generation facility

Site Boundary: 798 acres (1.25 sq. miles)

Location: Near the border of Gilliam and Morrow County, immediately south

of Interstate 84.

Certificate Holder: Boardman Solar Energy LLC, (Invenergy LLC)

Status: Not yet constructed



Boardman Solar Energy Facility RFA 1

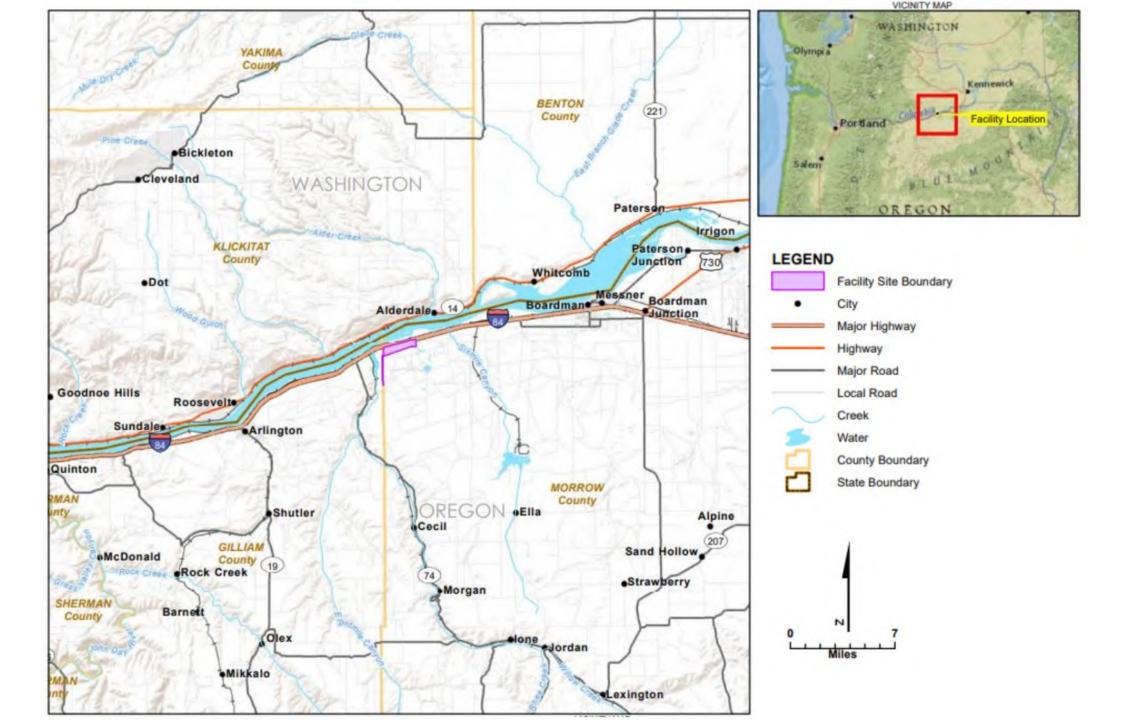
Amendment Request: -Extend both the construction commencement and

completion deadlines by three years.

-Type B review

Amendment Status: Proposed Order issued and Type B review determined justified.





Stateline Wind Project RFA 6

Approved Facility: 222 MW wind energy generation facility made up of two units

Stateline 1 & 2: 123 MW

Vansycle II: 99 MW

Location: Northern Umatilla County, near Helix

Certificate Holder: FPL Energy Vansycle, LLC (Stateline 1&2) and FPL Energy Stateline II,

Inc. (Vansycle II), subsidiaries of NextEra Energy Resources LLC.

Status: Operating



Stateline Wind Project RFA 6

Amendment Request: -Add 50 MW of battery storage

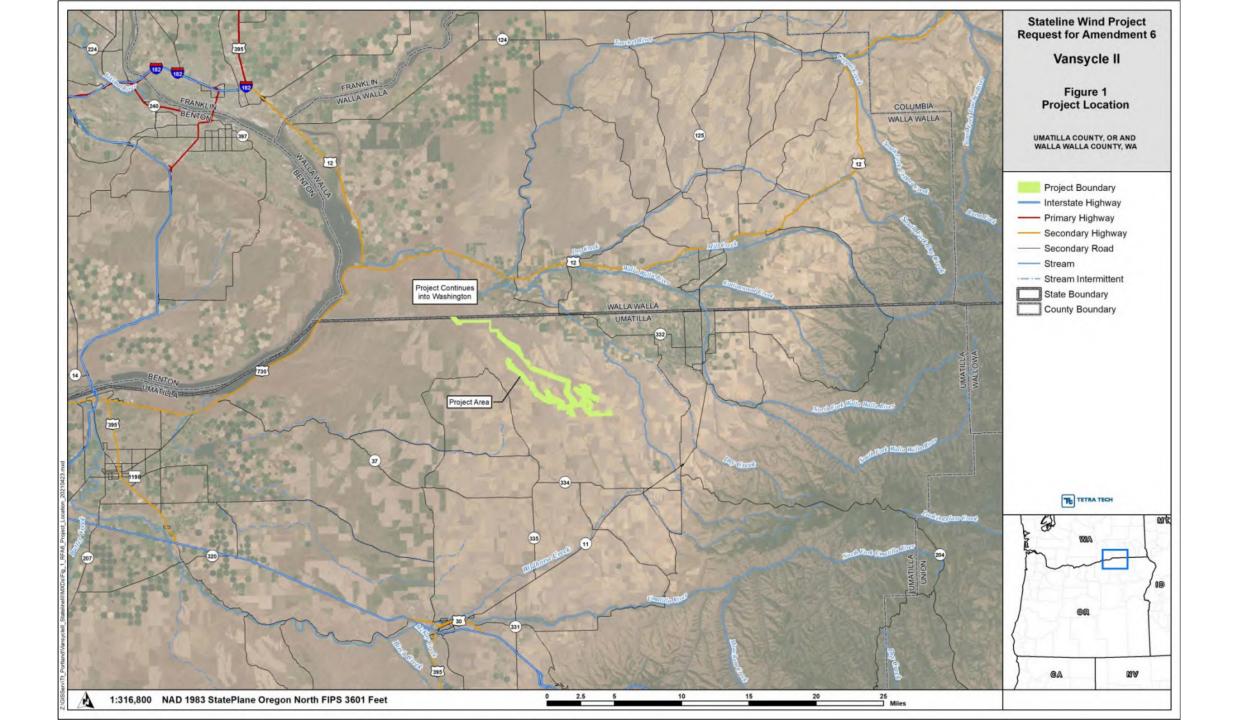
-Three options which include some combination of adding turbines, replacing turbines and repowering turbines. Height would be increased from 440 feet to a maximum of 489 feet. Ground clearance would be reduced from 85 feet to no less than 59 feet.

-Type B review

Amendment Status: Reviewing preliminary amendment request for completeness and

Type B review request.





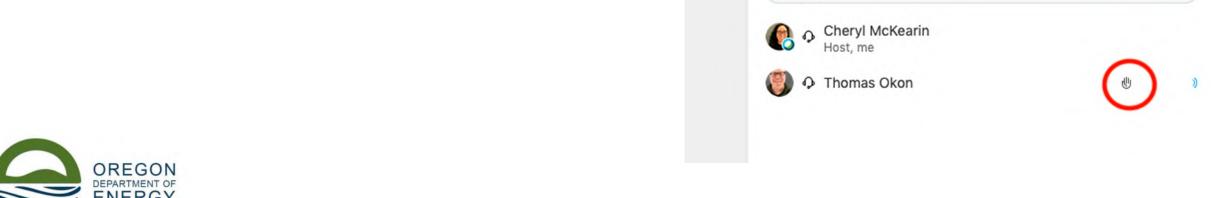
Agenda Item E

PUBLIC COMMENT

Phone Commenters: Press *3 to raise your hand to make comment, and *3 to lower your hand after you've made your comment.

Webinar Commenters: Open the Participant list, hover over your name and click on the "Raise Your Hand Q Search





How to Raise Your Hand in Webex:

Webinar Participants

The bottom right of the main window is a set of icons:

Click on "Participants"

The bottom right of the participant window is a hand icon, click on the hand:

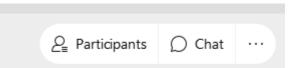
Clicking on it again will lower your hand.

Phone Participants

Press *3 on your telephone keypad to raise your hand.

Press *3 again on your telephone keypad to lower your hand.





Participants

Chat

> Q&A



EFSC Meeting Break -Meeting Resu at 12:15 a.m

Agenda Item F (Informational Item)

Retirement and Financial Assurance Standard Overview, Part I of II (Information Item)

August 27, 2021

Sarah Esterson, Senior Policy Advisor Chase McVeigh-Walker, Senior Siting Analyst



Overview/Goals

Overview

Council will review:

- ➤ Purpose of the standard
- ➤ Regulatory History
- ➤ Substantive Requirements
- ➤ Information Requirements
- ➤ Compliance Evaluation

Goals

- ➤ Inform/educate, address questions
- Discuss type/form of evidence typically evaluated
- Discuss improvements (policy or rulemaking)



Retirement and Financial Assurance Standard

OAR 345-022-0050:

"To issue a site certificate, the Council must find that:

- (1) The site, taking into account mitigation, can be restored adequately to a useful, non-hazardous condition following permanent cessation of construction or operation of the facility.
- (2) The applicant has a reasonable likelihood of obtaining a bond or letter of credit in a form and amount satisfactory to the Council to restore the site to a useful, non-hazardous condition."



Purpose of the Standard

Upon cessation of operation or construction:

• Ensure that the certificate holder has an ability to decommission/restore facility site consistent with zone, landscape and landowner input.

Certificate holder ability is based on:

- Decommissioning estimate, based on verified methods/tasks/actions assumptions
- Decommissioning experience
- Ability to obtain a bond or letter of credit equal to decommissioning estimate
- Preconstruction requirements to submit to ODOE bond or letter of credit



Statute and Rule History



Legislature authorized Council to establish standards of "financial ability and qualifications as to ability to construct and operate the energy facility"



1993-1999

Replaced many of the facility-specific financial capability standards with generally applicable standard; added Retirement Standard and Bonding requirements

Council adopted financial capability standards for different types of facilities

1980's

Further consolidated previous standards into one (current standard); amended mandatory conditions

2002

Standard and Rule Cross-Over

Organizational Expertise (OAR 345-022-0010(1))

Council must find that applicant has:

- Organizational expertise to retire the facility
- Demonstrated the ability to restore the site to a useful, nonhazardous condition

Mandatory Site Certificate Conditions (OAR 345-025-0006(3), -(8), -(9), -(16))

All certificate holders must:

- Retire facility substantially as described in site certificate
- Submit bond or letter of credit to ODOE in form and amount satisfactory to Council
- Retire facility in accordance with Council approved Retirement Plan



Exhibit W

Division 21 Information Requirements Estimated useful life of the proposed facility

Specific actions and tasks to restore the site

An estimate, in current dollars, of total and unit costs to restore the site

Discussion and justification of methods and assumptions

Proposed monitoring plan for facilities that might produce site contamination

Examples

[PLACEHOLDER SLIDE – SHOW EXHIBIT W for Bakeoven, Madras and Carty]



Exhibit M

Division 21 Information Requirements

Legal opinion letter

Type and \$ amount for facility decommissioning

Evidence of ability to obtain a bond or letter of credit

Examples

[PLACEHOLDER SLIDE – SHOW EXHIBIT M for Bakeoven, Madras and Carty]



Application of Standard – Life of Facility

Pre-Site Certificate Approval

Application Phase

- > Description of tasks/actions
- ➤ Decommissioning Cost Estimate
- > Evidence to support finding of ability to obtain bond or letter of credit



Application of Standard – Life of Facility

Site Certificate Approval

Pre-Construction

- > True-up/final evaluation of cost estimate, using previously approved methods/base unit costs
- > Bond or letter of credit, Council approved form and amount

Operation

> Annual adjustment of bond or letter of credit (inflation)

Decommissioning

- Obtain Council approval of a decommissioning plan
- Council review of compliance with decommissioning plan required for site certificate termination

Or

> If Certificate Holder fails to meet decommissioning obligation, Council uses financial surety to pay for decommissioning

Council Questions/Deliberation



Agenda Item G (Action Item)

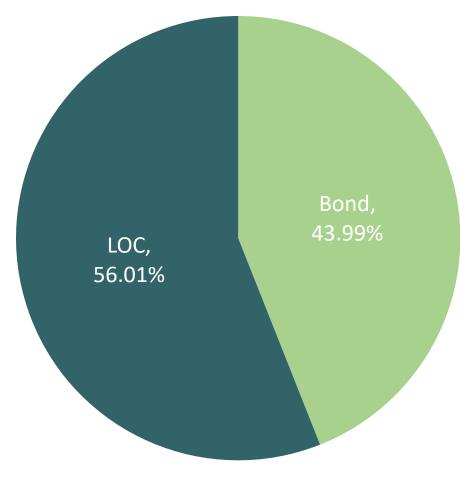
Financial Assurance Update (Action Item)

August 27, 2021
Christopher M Clark, ODOE Siting Policy Analyst & EFSC Rules Coordinator



Background

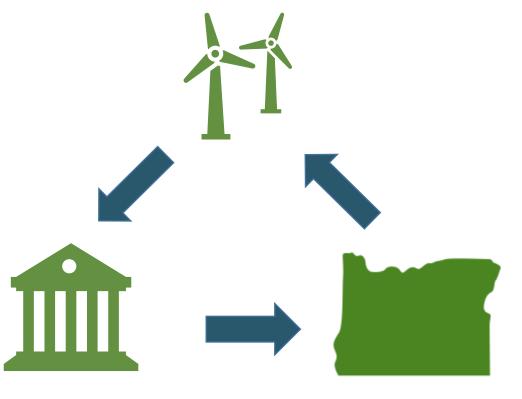
- Before beginning construction, each certificate holder must provide a surety bond or letter of credit in a form and amount satisfactory to the Council to restore the site.
- The bond or letter of credit must be maintained at all times until the facility has been retired.
- The Council currently has approximately \$168.2 million on file.
 - Around \$74 million is provided in Bonds
 - Around 94.2 million is provided in LOCs





Surety Bonds

Principal purchases bond and agrees to comply with terms of contract.



Obligee establishes bonding requirements as condition of contract.

Monitors for compliance.

Surety guarantees that principal will abide by contract. Provides funds to Obligee when breach is documented



Termination of Bond Obligations

- Completion of Retirement and Site Restoration
- Replacement
- Expiration
- Cancellation



Existing Bond Template Language

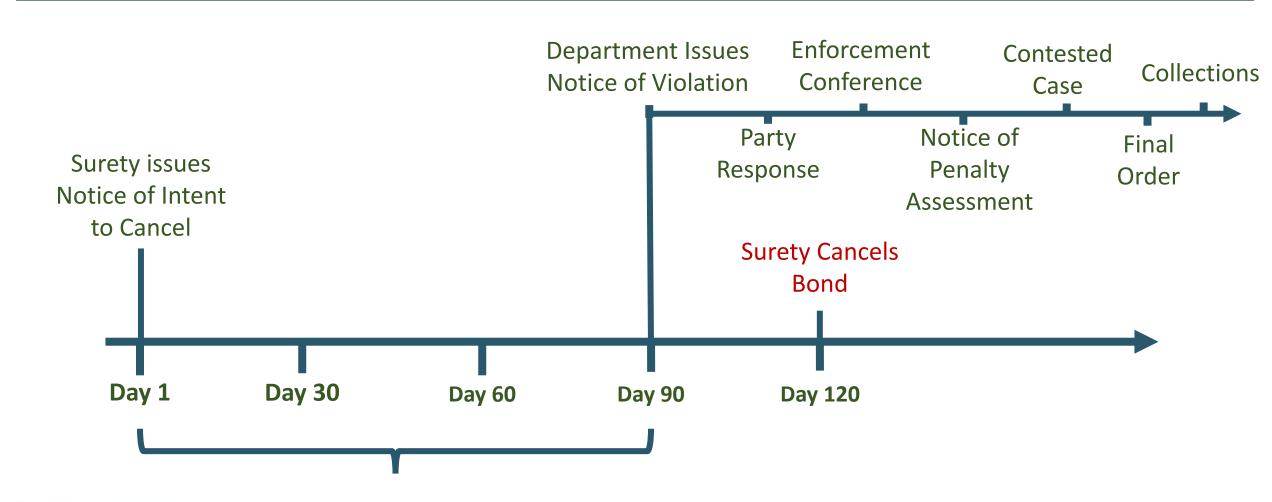
5. The Surety may cancel this bond at any time by giving the Principal and Obligee one hundred twenty (120) days written notice of the Surety's intent to cancel this bond. * * *

* * *

6. If the Surety cancels the bond prior to the Principal fulfilling its obligation to retire the facility and restore the site, but Principal does not provide alternate financial assurance approved by the Council within 90 (ninety) days after the date of notice of cancellation is received by the Obligee from the Surety, the Oregon Department of Energy may take enforcement measures as described in OAR 345-029-0000 through OAR 345-029-0100." (Emphasis added.)



Enforcement Procedures





Department attempts to obtain compliance

Proposed Bond Template Language

5. The Surety may cancel this bond at any time by giving the Principal and Obligee one hundred twenty (120) days written notice of the Surety's intent to cancel this bond. * * *

* * *

6. If the Surety cancels the provides notice of intent to cancel this bond prior to the Principal fulfilling its obligation to retire the facility and restore the site, but Principal does not provide alternate financial assurance approved by the Council within 90 (ninety) days after the date of the notice of intent to cancellation is received by the Obligee from the Surety, the Oregon Department of Energy may take enforcement measures as described in OAR 345-029-0000 through OAR 345-029-0100. Surety will be obligated to pay monies to the Obligee, limited to the penal sum of this bond, upon demand by the Obligee prior to the effective date of the cancellation.



Council Options

Option 1

Amend Surety Bond
Template as proposed in
Attachment 1
(staff recommendation)

Option 2

Amend Surety Bond Template with other specified changes

Option 3

Do not amend Surety Bond Template



Agenda Item H (Action Item)

Initiation Of Radioactive Waste Materials Rulemaking (Action Item)

August 27, 2021

Christopher M Clark, ODOE Siting Policy Analyst & EFSC Rules Coordinator

Maxwell Woods, ODOE Assistant Director for Nuclear Safety and Emergency Preparedness

Jeff Burright, ODOE Radioactive Waste Remediation Specialist



Overview

- Background
- Need and Authority for Rulemaking
- Objectives and Scope
- Potential Impacts on Stakeholders
- Recommended Method for Obtaining Public Input
- Projected Timeline
- Council Deliberation



Background

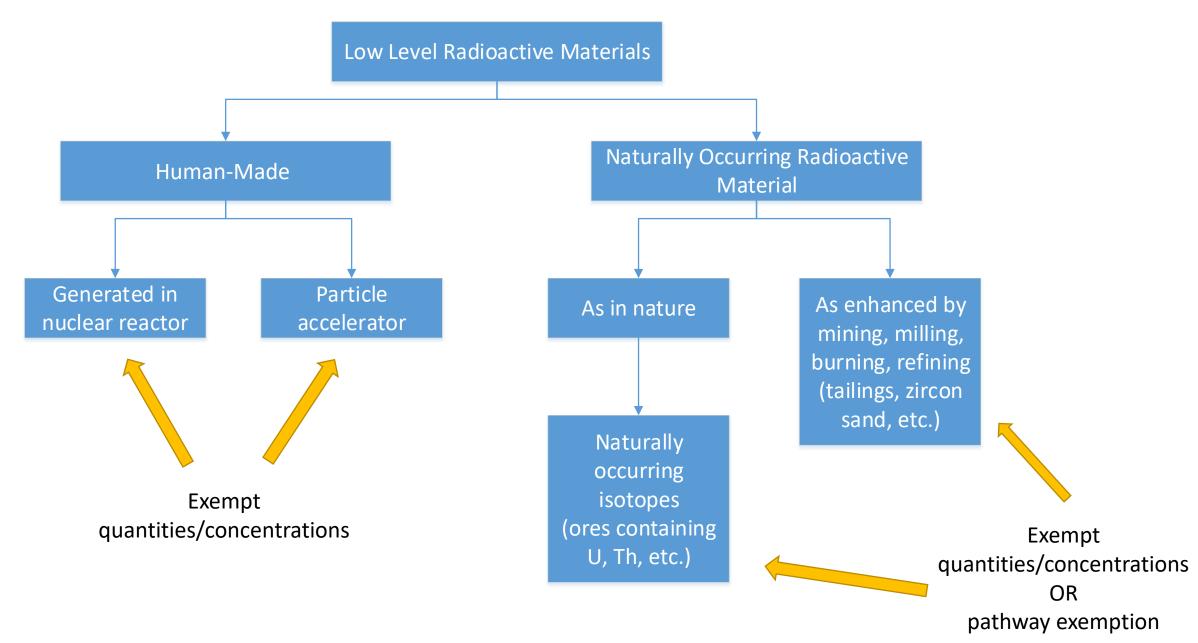
- SB 246 (2021):
 - Mandates that Council adopt standards and rules as necessary to prevent disposal of radioactive waste in Oregon.
 - Provides Council with additional authority to modify the types of materials that are considered to be radioactive waste under state law.
 - Expands authority to investigate and enforce violations involving radioactive materials and wastes.

• The bill is effective January 1, 2022.



Need and Authority for Rulemaking

- ORS 469.525 prohibits the establishment, operation, or licensure of any radioactive waste disposal facility in Oregon.
- Materials containing isotopes and concentrations identified in OAR 345-050 are not "radioactive waste" under the law.
 - The current law references rules adopted in 1978.
 - SB 246 removes this language, allowing the Council to identify additional isotopes and concentrations that may present significant danger to public health and safety.
- SB 246 also expands prohibition on "disposal" to include the:
 - Arrangement for disposal of radioactive waste
 - Transport of radioactive wastes for disposed for disposal.



Objectives and Scope

- Evaluating whether changes to OAR 345-050-0006 to 345-050-0038 are needed to protect public health and safety.
- Considering what standards and rules are necessary to prevent the disposal of radioactive waste in Oregon.
- Making any other conforming changes to rules in OAR chapter 345 needed to implement SB 246 or new rules.



Potential Impacts & Public Input

• Rulemaking could result in increased costs of compliance for industries that produce, handle, or dispose of radioactive materials.

• Due to potential for impacts and high interest in the subject matter, staff recommends Council appoint a Rulemaking Advisory Committee.

• If approved, Staff requests the Council delegate authority to add RAC members to the Department.



ODOE Recommendations for Rulemaking Advisory Committee Composition

Regulated Waste Disposal Organizations Radiation Health
Professionals

Environmental Justice Council

Historical Perspectives

Federal
Consistency
Consultation

Regulated Waste Generator Industries

Environmental /
Public Interest
Groups





Other Agencies (OHA, DEQ)

Tribal Government

Statewide Counties Representative Complementary
Tribal
Government
Coordination

Public At-Large

ODOE Recommendations for Rulemaking Advisory Committee Appointees

- Association of Oregon Counties*
- Confederated Tribes of the Umatilla Indian Reservation
- Dave Smith
- Gilliam County
- League of Women Voters of Oregon
- Oregon Business & Industry
- Oregon DEQ

- Oregon Health Authority, Radiation Protection Services
- Oregon Metro
- Oregon Refuse and Recycling Association
- Oregon State University
- Physicians for Social Responsibility
- Waste Management
- Wayne Lei, PhD, CHP



Projected Rulemaking Timeline	
Council initiates permanent rulemaking	August 27, 2021
Staff convenes Rulemaking Advisory Committee	September 2021 - February 2022
Staff prepares draft proposed rules	February – March 2022
Council considers draft proposed rules/ issues Notice of Proposed Rulemaking	April 2022
Public Comment Period/ Rulemaking Hearing	May-June 2022
Council Consideration of Permanent Rules	July 2022

Item 1 Initiation of Rulemaking

Approve

Initiate Rulemaking and Appoint RAC as Recommended

Modify

Initiate Rulemaking and Appoint RAC with modifications

Reject

Reject Recommendation to Initiate Rulemaking



Item 2 Delegation of Authority to Add RAC Members

Approve Request

Authorize Department to add RAC members as needed.

Deny Request

Retain sole authority over all decisions regarding RAC membership.



Agenda Item I (Action Item)

Initiation of Application Review Process Rulemaking (Action Item)

August 27, 2021
Christopher M Clark, ODOE Siting Policy Analyst & EFSC Rules Coordinator



Overview

- Background
- Need and Authority for Rulemaking
- Objectives and Scope
- Potential Impacts on Stakeholders
- Recommended Method for Obtaining Public Input
- Projected Timeline
- Council Deliberation



Background

- The Council has adopted 14 general siting standards and additional specific standards. Over time, the relationship between these standards and some specific application requirements have become unclear.
- Council authorized staff to begin preliminary work on a multi-phase rulemaking project to update, clarify, and simplify its rules for the site certificate application review process as part of its 2021 to 2023 Rulemaking Schedule.
- The project was also identified in the Department's EO 20-04 Implementation Plan as a possible means to accelerate reductions in GHG emissions.



Need and Authority

- ORS 469.470 authorizes the Council to adopt standards and rules for the siting of energy facilities and for the implementation of Oregon's energy policy.
- Rulemakings are needed to:
 - Clarify and simplify application requirements
 - Improve consistency and standardization in the review process
 - Make the process clearer and more understandable for applicants, reviewing agencies, and interested members of the public.
- Rulemakings are intended to create efficiencies and reduce the time and costs associated with state jurisdictional reviews while having no negative effect on public participation.



Application Process Review Rulemaking

Phase 1

Separate procedural and substantive rules, simplify or clarify procedures where practicable.

Phase 2

Align information requirements with standards

Phase 3

Adjust substantive requirements for different types of facilities (i.e. renewable energy facilities), if warranted.



Scope and Objectives of Phase 1

- Scope: Reorganize rules in divisions 015 to 026 to create clear separation of procedural and substantive provisions in rules and simplify or clarify procedures for review where practicable.
- Sub-Objective 1: Separate procedural and substantive rules
 - Reorganize rules to clearly identify substantive requirements and separate them from administrative procedures
- Sub-Objective 2: Simplify or clarify procedures.
 - Eliminate duplicative procedural requirements
 - Consolidate procedures that are repeated in multiple points in the process
 - Identify and address procedural gaps and unclear processes

Substantive Requirements

A **substantive rule** establishes a right, duty, or obligation for an applicant or certificate holder. Examples of substantive rules include:

- An information requirement that establishes the information or evidence that must be provided for the Council to evaluate compliance with a standard.
- A standard that establishes the "yardstick by which the evidence will be evaluated."
- A condition or obligation that describes specific rights, duties, and obligations for a certificate holder.

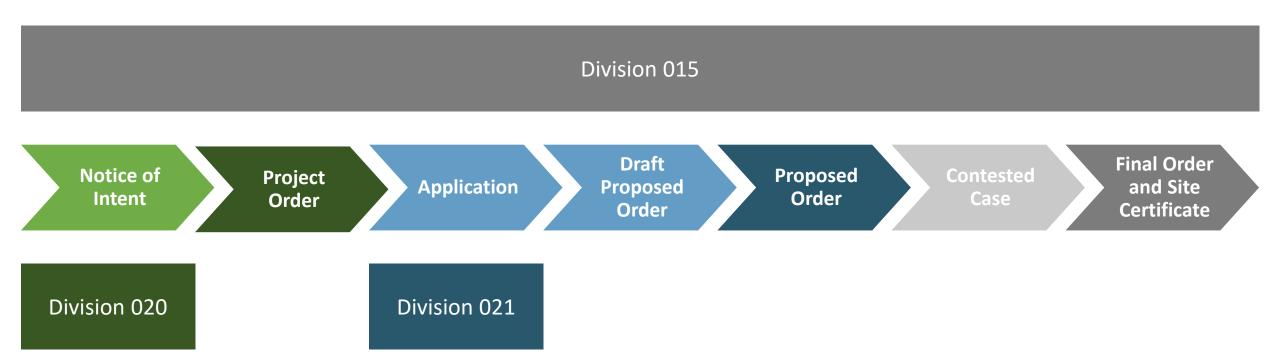


Procedural Requirements

A **procedural rule** prescribes the steps that must be taken and methods that must be used to implement a substantive rule. Examples include:

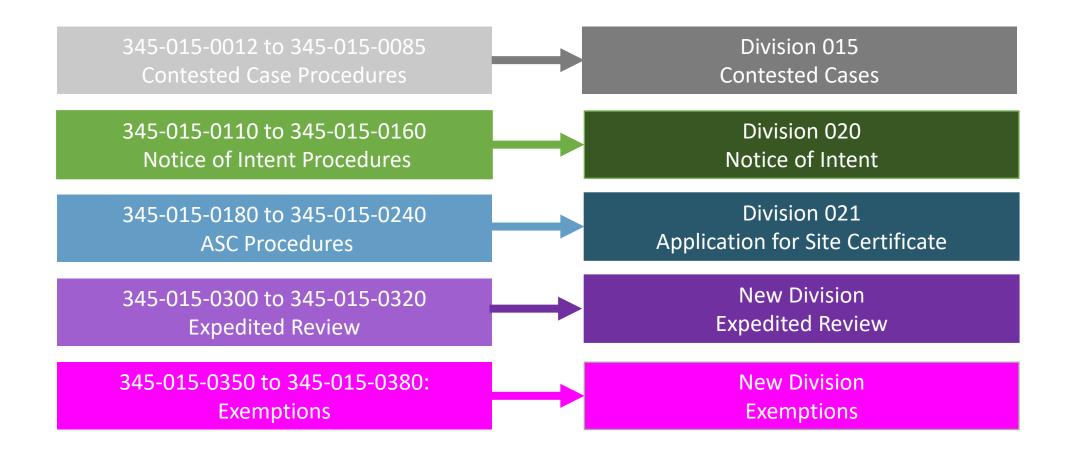
- Submission and noticing requirements.
- Deadlines and timing considerations.
- Procedures for agency coordination, public meetings, and public hearings.
- Evidentiary rules.

Siting Procedures





Example Reorganization of Division 015





Example: Division 015 to 020

Division 020 345-015-0110 to 345-015-0160 **Notice of Intent Notice of Intent Procedures** 345-020-0006: Submission of NOI 345-020-0011: Contents of a NOI 345-015-0110: Public Notice of a NOI 345-015-0110: Public Notice of a NOI 345-015-0120: Memorandum on a NOI 345-015-0120: Memorandum on a NOI 345-020-0040: Distribution of a NOI 345-015-0130: Informational Meeting on a NOI 345-015-0130: Informational Meeting on a NOI 345-015-0140: Review by the Department 345-015-0140: Review by the Department 345-015-0160: Project Order 345-015-0160: Project Order 345-020-0060: Expiration of a NOI 345-020-0016: Amendment of NOI



Example Division 015 to 021

345-015-0110 to 345-015-0160 Notice of Intent Procedures

345-015-0180 Agency Memorandum on ASC

345-015-0190 Determination of Completeness

345-015-0200 Notice to Agencies that the Application is Complete

345-015-0210 Draft Proposed Order

345-015-0220 Public Hearing on the DPO

345-015-0230 Council Review and the Department's Proposed Order

345-015-0240 The Decision-Making Record

Division 021
Application for Site Certificate

345-021-0000 General Requirements

345-021-0010 Contents of an Application

345-021-0020 Specific Application Requirements for Siting of Surface Facilities Related to Underground Gas Storage Reservoirs

345-015-0180 Agency Memorandum on ASC

345-021-0050 Distribution of a pASC

345-015-0190 Determination of Completeness

345-015-0200 Notice to Agencies that the Application is Complete

345-021-0055 Distribution of a Complete ASC

345-015-0210 Draft Proposed Order

345-015-0220 Public Hearing on the DPO

345-015-0230 Council Review and the Department's Proposed Order

345-021-0090 Amendment of an Application

345-015-0240 The Decision-Making Record

345-021-0100 Contested Case Proceeding on the Application — Burden of Proof



Application Requirements OAR 345-021-0010

Exhibit A – Applicant Information	Exhibit H – Geologic Report	Exhibit P – Fish and Wildlife Habitat	Exhibit X - Noise
Exhibit B - Proposed Facility Description	Exhibit I – Soils	Exhibit Q – T&E Species	Exhibit Y – Carbon Emissions
Exhibit C - Proposed Facility Location	Exhibit J – State Waterways	Exhibit R - Scenic Recourses	Exhibit Z – Condensate Plumes
Exhibit D – Organizational Expertise	Exhibit K – Land Use	Exhibit S – Historic, Cultural, Archaeological Resources	Exhibit AA – EMG Fields
Exhibit E - Permits	Exhibit L - Protected Areas	Exhibit T - Recreation	Exhibit BB – Other Information
Exhibit F – Property Owner Lists	Exhibit M – Financial Capability	Exhibit U – Public Services	Exhibit CC – Legal Authorities
Exhibit G – Materials Analysis	Exhibit N – Need Standard	Exhibit V - Waste	Exhibit DD –Specific Standards
	Exhibit O - Water Use	Exhibit W – Site Restoration	



Applicant/Facility Information

Exhibit A – Applicant Information

hibit P – Fish and Wildlife Habita

xhibit X - Noi

Exhibit B - Proposed Facility Description

(hibit I – Soil:

Exhibit Q – T&E Specie

Exhibit Y – Carbon Emission:

Exhibit C - Proposed Facility Location

Exhibit J – State Waterways

Exhibit R - Scenic Recourse

Exhibit Z – Condensate Plumes

Exhibit D - Organizational Expertise

Exhibit K – Land Use

Exhibit S – Historic, Cultural Archaeological Resources

Exhibit AA – EMG Fields

Exhibit F - Permits

Exhibit L - Protected Areas

Exhibit T - Recreation

Exhibit BB – Other Information

Exhibit F – Property Owner Lists

Exhibit M - Financial Capability

Exhibit U – Public Services

Exhibit CC – Legal Authorities

Exhibit G – Materials Analysis

Exhibit N – Need Standard

Exhibit V - Waste

Exhibit DD -Specific Standards

Exhibit O - Water Use

Exhibit W – Site Restoration



Information about Impacts/Resources

Exhibit A – Applicant Information

Exhibit B - Proposed Facility Description

Exhibit C - Proposed Facility Location

Exhibit D – Organizational Expertise

Exhibit F - Permits

Exhibit F – Property Owner Lists

Exhibit G – Materials Analysis

Exhibit H – Geologic Report

Exhibit I – Soils

Exhibit J – State Waterways

Exhibit K – Land Use

Exhibit L - Protected Areas

xhibit M — Financial Capability

xhibit N – Need Standarc

Exhibit O - Water Use

Exhibit P – Fish and Wildlife Habitat

Exhibit Q – T&E Species

Exhibit R - Scenic Recourses

Exhibit S – Historic, Cultural, Archaeological Resources

Exhibit T - Recreation

Exhibit U – Public Services

Exhibit V - Waste

Exhibit W - Site Restoration

Exhibit X - Noise

Exhibit Y – Carbon Emissions

Exhibit Z – Condensate Plumes

Exhibit AA – EMG Fields

Exhibit BB – Other Information

Exhibit CC – Legal Authorities

Exhibit DD – Specific Standards



Procedural Information

Exhibit A – Applicant Information

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Exhibit P – Fish and Wildlife Habita

Exhibit X - Noise

Exhibit B - Proposed Facility Description

xhibit I — Soils

Exhibit Q – T&E Species

Exhibit Y – Carbon Emissions

Exhibit C - Proposed Facility Location

Exhibit J – State Waterway:

Exhibit R - Scenic Recourse

Exhibit Z – Condensate Plumes

Exhibit D – Organizational Expertise

Exhibit K – Land Use

Exhibit S – Historic, Cultural Archaeological Resources

Exhibit AA – EMG Fields

Exhibit E - Permits

Exhibit L - Protected Areas

Exhibit T - Recreation

Exhibit BB – Other Information

Exhibit F – Property Owner Lists

Exhibit M — Financial Capability

Exhibit U – Public Services

Exhibit CC – Legal Authorities

Exhibit G – Materials Analysis

Exhibit N – Need Standard

Exhibit V - Waste

Exhibit DD -Specific Standards

Exhibit O - Water Use

Exhibit W – Site Restoration



Impacts

- Phase 1 is not expected to create any new substantive or procedural requirements.
- Overall, the project is intended to reduce the overall net costs of the siting review process by reducing time and administrative burdens.
- Some individual changes may increase costs by increasing the amount of information required to demonstrate compliance with individual standards or may enhance opportunities for public participation and engagement.



Public Input

- Phase 1 has narrow scope, but overall project project has broad policy implications, complex issues with multiple alternatives, and a high level of anticipated interest due to subject matter.
- Staff recommends that use of a Rulemaking Advisory Committee to assist in development of rule changes is appropriate.
- Preliminary scoping activities will help identify interested stakeholders and provide general direction on rulemaking prior to appointment of RAC.



Potential Scoping Questions

- What are your top priorities for making the siting review process more efficient and effective?
- What are the most important informational elements of an Application for Site Certificate? How could the contents or format of applications be improved?
- How can opportunities for public participation in the siting review process be enhanced?
- What are your other comments or concerns about this rulemaking?



Projected Rulemaking Timeline			
Council initiates rulemaking	August 2021		
Staff distributes scoping survey	October-November 2021		
Staff presents preliminary recommendations to Council, Council appoints RAC	January 2022		
RAC meetings & development of draft proposed rules	January - March 2022		
Council considers draft proposed rules & issues Notice of Proposed Rulemaking	April 2022		
Public comment period on proposed rules	May – June 2022		
Rulemaking hearing & consideration of permanent rules	June /July 2022		



Council Options

Option 1

Initiate Rulemaking as Proposed By Staff (staff recommendation)

Option 2

Initiate Rulemaking with modifications

Option 3

Deny Request to Initiate
Rulemaking



Boardman Decommissioning Update

LENNA COPE

PORTLAND GENERAL ELECTRIC
AUGUST 27, 2021
ENERGY FACILITY SITING COUNCIL MEETING





Boardman History



Site Certificate Application



Site Certificate Application first submitted February 28, 1973



Site Certificate Approved March 24, 1975



Began commercial operation August 3, 1980



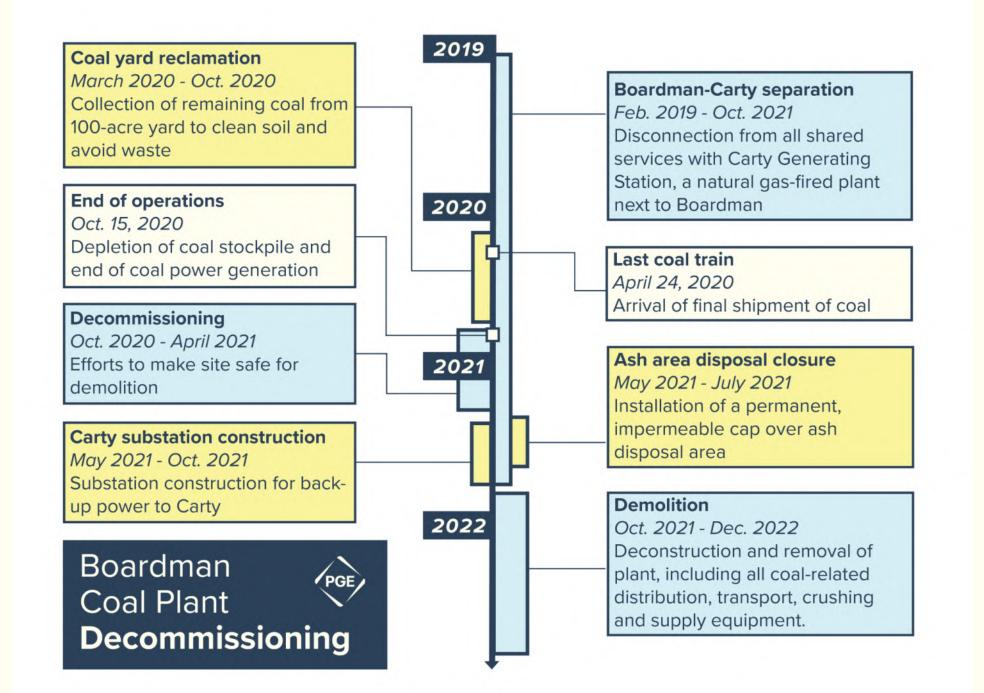
Amended nine times, last time May 2013



Ceased Burning Coal October 15, 2020 Generated 97,039,654 MWhr Operated 196,440 hours Coal burned 56,116,406 tons



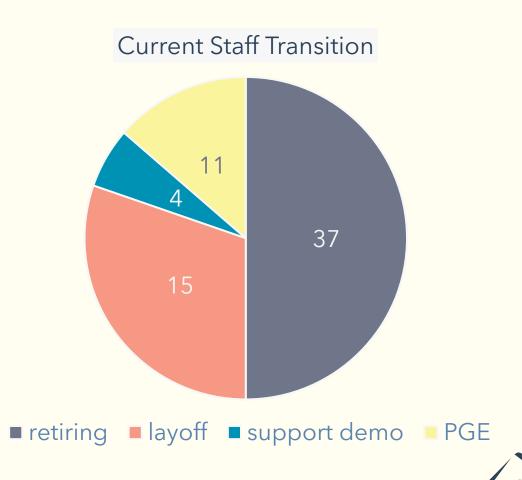






Plant Worker Transition

- WARN Act notification issued on September 1, 2020
- 67 employees on October 1, 2020
- 4 remain to support site
- 11 transferred to new roles at PGE
- 37 classified as retired
- 15 terminated



Carty Independence

- Boardman and Carty plants share infrastructure that must be separated prior to demolition
- Work approved as part of Carty Site Certificate Amendment 2
- Carty infrastructure separation includes:
 - Septic
 - Backup power/Carty Substation
 - Install eye wash
 - Fire water line
 - Intake structure
- Carty reservoir operations being evaluated to minimize cost







Coal Yard Reclamation

- Reclamation from March to October 2020
- 40,033 tons of coal reclaimed, used as fuel
- Revegetated in January 2021
- Reclamation returned \$1.8M of coal for fuel and saved \$2.8M in disposal costs







Coal Yard Reclamation











Ash Disposal Area Closure

- Designed using geomembrane cap ClosureTurf®
- Construction May 2021 to July 2021, small punch list items complete by end of August
- 30 years of groundwater monitoring and O&M
- Radiological readings to be submitted to ODOE for site certificate and OAR 345-050-0030 exemptions









Ash Disposal Area Closure







Ash Disposal Area Closure









Soil Removal

- Berm from excavation of the boiler room
- Small portion previously used as a shooting berm
- Sampled by geo probe and auger to identify possible contamination
- Removed 146 tons of lead contaminated soil







Underground Storage Tank

- Removed one 15,000 gallon diesel tank and one 10,000 gallon gasoline tank
- DEQ notified and provided decommissioning checklist and site assessment report
- Soil above, below, and sides of tanks was sampled and no contamination was identified









Wash Pond Removal





- Lined pond where stormwater drained from fuel island
- Oil hydrocarbons within soil above the liner
- 291 tons of soil was removed
- Soil below liner was sampled and no contamination found



Decommissioning and Asset Disposition

- Decommissioning includes:
 - Draining all fluids and oil from equipment
 - Cleaning and washing the plant, cleaning tanks, removing ash from plant systems
 - Removing universal waste, radioactive sources
 - Removing underground storage tanks
- Asset disposition
 - Other plants identified assets they want
 - Look to scrappers or specific vendors to buy items (~\$1.7M so far)
 - Remaining material goes to demolition contractor

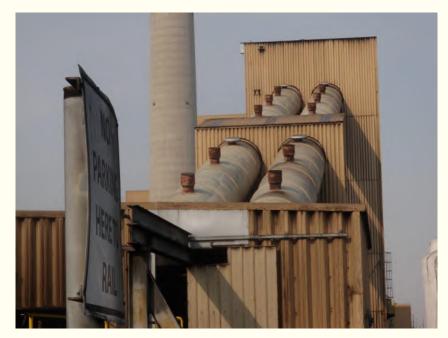


- Hazardous Waste 146,576 pounds
- Non-hazardous Waste 2,750 tons
- Universal Waste 152 mercury switches
- Oil 53,690 gallons
- Diesel Fuel 110,000 gallons



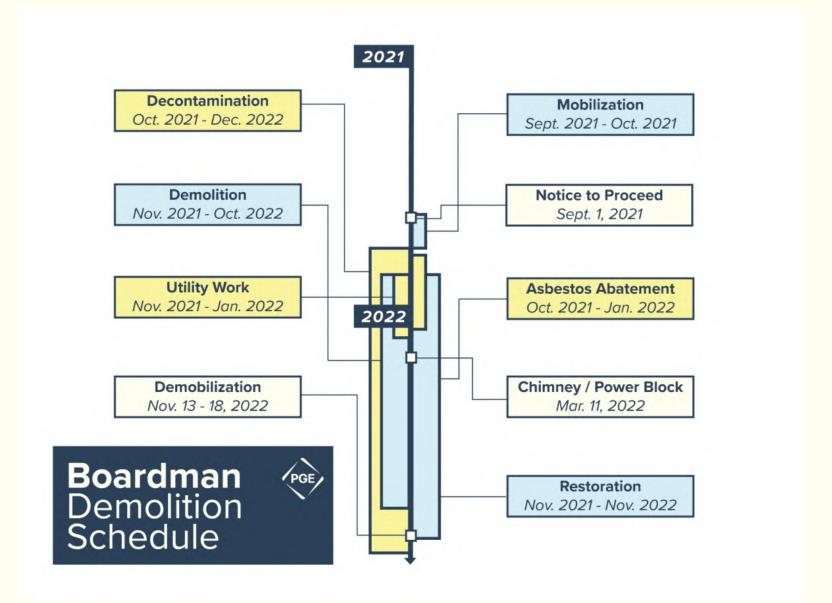
Demolition

- Environmental Regulated Materials assessment
 - Identify asbestos and lead paint
- Make the plant cold, dark and dry during decommissioning
 - Have the plant ready for a demolition contractor to abate and demolish
- Plan and design site demolition
 - Remove buildings and utilities to two feet below grade
 - Abandon utilities deeper than two feet
 - Site restoration
- Currently in negotiations with contractor
- Turn the site over to demolition contractor October 2021
- Stack and boiler imploded end of Q1/2022

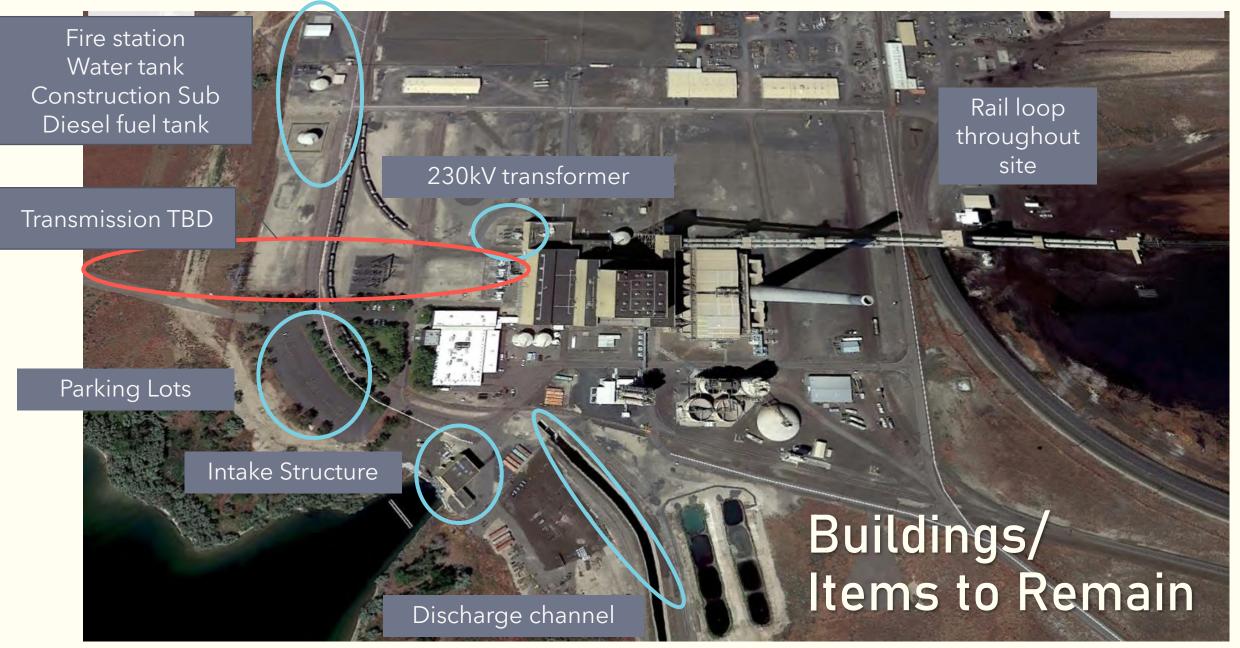




Demolition







Milestones and Costs

Coal Yard Restoration March -Oct 2020 Plant Decommissioning Oct '20-April '21 Underground storage tank and Nov - Dec contaminated soil removal 2020 Ash disposal area capping May - July 2021 Construction of substation for Carty May - Oct 2021 Plant demolition Oct *21 -Dec '22

Employee costs

\$14M \$14M Planning and management

\$2.0M \$2.0M **Coal yard**

\$2.8M \$3.0M

Ash disposal area

\$8.4M \$7.5M **Decommissioning**

\$2.5M \$3.5M **Asset write-off**

\$7.3M \$7.3M

Abatement and demolition

\$34M \$15M Long-term site care

\$3.8M \$3.8M Total

\$75M \$56.1M

Top number is previously estimated cost. Bottom number is current estimate.



Summary

- Safety is critical and primary success factor
- Decommissioning activities have gone well so far
- Demolition work through next year and long-term monitoring and maintenance of site







Appendix







Adjourn







