**HYDRO PLANT ADDITIONS:**

**Prospect 3 South Fork Woodstave flowline, (In-Service Date 12/31/2023) (Reference page 8.4.34)**
A new Federal Energy Regulatory Commission (FERC) license was issued for the Prospect No. 3 Hydroelectric Project on September 27, 2019. Paragraph 22 of the license requires replacement of the existing wood stave flowline. The existing wood stave flowline, constructed in 1931, is prone to significant leakage which has caused surface erosion of the soils along the flowline alignment and has surpassed its original design life. The work includes all design, permitting, and construction associated with the removal of the existing wood stave flowline and installation of a new flowline and is necessary to maintain compliance with the new FERC license.

**Toketee Dam Rehabilitation Construction, (In-Service Date 12/31/2025) (Reference page 8.4.34)**
Geotechnical exploration work performed in April 2014, identified a concern at Toketee dam, located on the North Umpqua Hydroelectric Project. The exploration was performed as part of a five-year technical evaluation in accordance with FERC guidelines. The exploration work utilized current methodologies to better characterize the dam's foundation materials that had not been sampled since the late 1940's, during design for original construction of the dam. The exploration identified a zone of sand material within the foundation of the dam that is fine-grained, uniformly graded, loose, and saturated. Preliminary engineering analysis has determined that a magnitude 6.0 local crustal fault or a magnitude 8.5 subduction zone fault could trigger liquefaction of the foundation sands. The work includes all design, permitting, and construction associated with rehabilitation of the Toketee dam and is necessary to maintain compliance with FERC requirements.

**Grace Flowline Replacement, (In-Service Date 12/31/2025) (Reference page 8.4.34)**
This project consists of the design and construction of an 11-foot diameter flowline, flowline supports, system connections and demolition of the existing wood stave flowline. This project benefits customers by avoiding escalating maintenance costs necessary to extend the service life of the existing flowline, increases plant generation by 6,760 megawatt-hours per year, and also enables spinning reserves to be claimed at the Grace hydroelectric plant after future planned overhauls and automation projects.

**North Umpqua Pump Hydro, (In-Service Date 5/31/2024) (Reference page 8.4.34)**
PacifiCorp's 2021 Integrated Resource Plan (IRP) anticipates significant renewable energy resource additions and energy storage resources to balance those variable renewable energy resources and ensure reliability. This project will support the development of pumped storage infrastructure that uses existing assets currently in place within the North Umpqua Hydroelectric Project. The project will design and permit the addition of pumped storage capabilities at the existing Fish Creek Development which has existing hydroelectric infrastructure that can be modified to take advantage of the favorable head conditions at the sites to develop cost-effective energy storage. The Fish Creek pumped storage facilities will have a capacity at the existing plant of 11 MW with up to five hours of duration.

**Yale Saddle Dam Remediation, (In-Service Date 10/31/2025) (Reference page 8.4.34) (Reference page 8.4.34)**
The Yale Saddle Dam is a zoned earthfill embankment located approximately 1,000 feet north of the Yale Main Dam, on the right bank of the Lewis River. The Yale Saddle Dam has a crest elevation of 503 and the normal maximum pool for Yale Reservoir is at elevation 490. Updated liquefaction analyses were completed in 2019 incorporating the foundation material characterization and stratigraphy obtained from the 2017 geotechnical investigation. The analyses indicate the silty sand materials are likely to liquefy during an earthquake with a reoccurrence interval in the range of 500 to 1,000 years, and result in the dam experiencing deformations equivalent to half its height of 37 feet. Given the implications of the Yale Saddle Dam 2019 liquefaction evaluation and initial stability analysis preliminary results, on October 28, 2019, PacifiCorp implemented a "target maximum" reservoir operating level for Yale Reservoir at elevation 480 until further work can be completed to better quantify the expected seismic performance of the Yale Saddle Dam. This project will remediate Yale Saddle Dam to withstand current seismic loading,

return Yale Reservoir to full operational levels, and maintain compliance with FERC requirements.

**Fall Creek Hatchery, (In-Service Date 12/31/2023) (Reference page 8.4.34) (Reference page 8.4.34)**
The Iron Gate Hatchery is owned by PacifiCorp and operated by the California Department of Fish and Wildlife. The Iron Gate Dam provides supply water to the Iron Gate Hatchery through the powerhouse intake structure. With the planned removal of the Lower Klamath Project dams (J.C. Boyle, Copco No. 1, Copco No. 2, and Iron Gate) as early as January 2024, there will no longer be water supply for Iron Gate Hatchery from Iron Gate reservoir, and fish collection facilities at the base of Iron Gate Dam will be removed. Under Interim Measure 20 (IM20) of the Klamath Hydroelectric Settlement Agreement (KHSA), signed on February 18, 2010, and amended on April 6, 2016 and November 30, 2016, PacifiCorp is obligated to provide continued hatchery production for 8-years after the removal of Iron Gate Dam.

In order to meet the obligation stated in IM20 of the KHSA, PacifiCorp will construct a new fish hatchery facility at the location of the Fall Creek hydroelectric development. This project will include implementation of a facility design that has been developed by the Klamath River Renewal Corporation in consultation with the California Department of Fish and Wildlife and the National Marine Fisheries Service, acquisition of permits, rehabilitation of existing hatchery raceways at the site, and construction of the new Fall Creek Hatchery.

**Weber Dam Improvements, (In-Service Date 12/31/2025) (Reference page 8.4.34)**
The FERC issued the Weber Project a new license on March 19, 2021. The FERC's ALP determined the design features for upstream fish passage and recreational improvements which are required for implementation as part of the new license in addition to license implementation requirements, dam safety and operational improvements have been identified to facilitate dam safety and reliability of the Weber Project for the duration of the new license. License implementation, dam, and power plant intake improvements require coordination for field investigation, consulting, and engineering.

To implement requirements of the new license, work is needed to install upstream fish passage, gate operability improvements to better control the gates to facilitate fish passage, and additional recreational amenities. Non-license implementation improvements include increased flood passage capacity, intake structure upgrades, and spillway gate reliability enhancements.

**Swift 1 Spillway Gate Retrofit, (In-Service Date11/31/2025) (Reference page 8.4.34)**
This project is to ensure the proper and safe function of the spillway gates at Swift 1 Dam. Flood flows are regulated at Swift 1 dam by two 50-foot-wide by 51-foot-tall gates. Inspection and structural analysis indicate that the gates require substantial improvement to meet current seismic criteria. A concurrent study of the gate hoist platforms and machinery that lift the gates indicated that its replacement is required to facilitate opening the gates an additional 4 feet to accommodate the Probable Maximum Flood flows as well as providing a redundant alternative lifting device as identified in the 2017 Consultant's Safety Inspection Report. The work includes all design, permitting, and construction associated with the retrofit of the Swift 1 Dam spillway gates and is necessary to maintain compliance with FERC requirements.

**ILR 4.1.9 Future Fish Passage Stage 1 Ph, (In-Service Date 09/30/2022) (Reference page 8.4.34)**
As per the November 30, 2004, Lewis River Settlement Agreement (settlement agreement) and FERC licenses for the Merwin, Yale and Swift No. 1 hydroelectric projects (collectively the Lewis River hydroelectric projects), PacifiCorp (and where applicable the Cowlitz Public Utility District as owner of Swift No. 2 hydroelectric project) are required to provide upstream and downstream passage at all three mainstream Lewis River dams.

Article 4.1.9 of the settlement agreement states, "The Licensees shall construct and provide for the operation and maintenance of both upstream and downstream fish collection and transport facilities at each of Merwin Dam, Yale Dam, and the Swift Projects as provided in the schedule in this Agreement unless otherwise directed by the Services pursuant to this Section."

Article 401 of the FERC licenses states "Various conditions of this license required by Appendices B [Forest Service section 49e) conditions], D (Department of Commerce section 18 fishway prescription), E [Department of the Interior fish way prescription), and F [National Marine Fisheries Service (NMFS) biological opinion (BO)] require the licensee to prepare plans for approval by some or all of the signatories of the Lewis River Settlement Agreement. Each such plan shall also be submitted to the Commission for approval and shall include an implementation schedule.

In negotiating the settlement agreement, PacifiCorp was able to include a caveat in the agreement that allows the Utilities to come forward with any new information that could lead to a reversal of the passage requirements at Yale and Merwin dams.

Article 4.1.9.a "*New Information (defined below) relevant to reintroduction and fish passage into Yale Lake or Lake Merwin may be available to the Services that may influence the implementation of fish passage into and out of these reservoirs, or that could result in the Services determining that reintroduction or fish passage for anadromous fish is inappropriate. If the Services conclude upon review of the New Information that one or more of the passage facilities should not be constructed, in lieu of designing, permitting, constructing, and operating the passage facility, PacifiCorp shall provide additional funds for projects in lieu of fish passage, as set forth in Section 7.6. In this event, the Licensees shall also implement the bull trout passage measures as set forth in Section 4.10. The adult upstream fish passage facility at Merwin and juvenile downstream collector at Swift No. 1 are not subject to this review*."

Following several years of studies, PacifiCorp on June 24, 2016, submitted to the NMFS and US Fish and Wildlife Service (USFWS) (collectively the Services) the document "New Information Regarding Fish Transport into Lake Merwin and Yale Lake". Several years of review and consultation on this information concluded with the Services announcing on April 12, 2019, that the construction of the Yale Upstream Facility (described in Section 4.7 of the settlement agreement) and the Merwin Downstream Facility (described in Section 4.6 of the settlement agreement) are inappropriate. The Services' decision triggered the requirements of Section 7.6 of the settlement agreement, including the Utilities' obligations to fund mitigation projects in lieu of constructing these additional fish passage facilities (the "In Lieu Program") with funding amounts described in Section 7.6.1 (a) of the settlement agreement. In addition, in their notice, the Services delayed their decision whether to require construction of the Yale Downstream Facility (described in Section 4.5 of the settlement agreement) and the Swift Upstream Facility (described in Section 4.8 of the settlement agreement) until 2031 and 2035 respectively. The Services note that information obtained through the implementation of In Lieu Program projects will help inform the Services' future decision on the appropriateness of constructing the Yale and Swift Upstream Projects.

In response to the decisions, PacifiCorp completed specific steps to implement the Services' decision and the relevant sections of the Lewis River Hydropower Settlement Agreement. Steps included:

- Development of an In Lieu Program Strategic Plan to guide identification, selection and implementation of mitigation actions in the Lewis River in consultation with the settlement agreement parties.
- Development of an In Lieu Program Evaluation Plan to guide the review and reporting of Strategic Plan actions.
- Preparation of FERC license amendment applications to implement the In-Lieu Program in consultation with the settlement agreement parties.
- Development of a Biological Evaluation to inform any required Endangered Species Act and Magnuson-Stevens Act consultation with the Services in support of the license amendments.
- Preparation of designs for Yale and Merwin Downstream Bull Trout Facilities in consultation with the U.S. Fish and Wildlife Service and the settlement agreement parties.

In a turn of their position, on October 27, 2021, NMFS filed with the FERC notice that the Services had completed their final determination regarding fish passage into Yale Reservoir, and that fish passage remains appropriate in this reservoir. In the letter to the Utilities, the Services also note they are

continuing to engage in further evaluation and discussion with parties to inform consideration of fish passage into Merwin Reservoir, and the Services will follow in a subsequent letter with considerations to be included in the Yale fish passage design. Given the Services' delay in making its' Yale determination, the Services recommend the Commission grant an additional 5 years of time from the original construction deadline of June 26, 2021. On December 23, 2021, NMFS and USFWS notified the Utilities that the Services had completed their final determination regarding fish passage into Merwin Reservoir. Fish passage into this reservoir remains appropriate. Construction deadline for Merwin fish passage facilities is June 26, 2025. Services have been advised the above letters do not provide consistent construction dates for new facilities.

Throughout the Services determination, PacifiCorp has attempted to work with the Services to find an acceptable outcome. To protect customer interests while achieving a positive environmental outcome, PacifiCorp is working with the Services and parties to the settlement agreement towards an agreement on key components of a fish passage program into Yale and Merwin reservoirs. Such an agreement should include a realistic timeline for construction of Merwin fish passage facilities. PacifiCorp will also continue to take legal actions to afford future opportunities should they be needed.

**OTHER PRODUCTION PLANT ADDITIONS:**

**Foote Creek II-IV Acquire-Repower, (In-Service Date 11/30/2023) (Reference page 8.4.36)**
This project will provide reliable and cost-effective renewable energy to customers by purchasing safe harbor equipment to qualify repowered wind projects interconnected to PacifiCorp's system and acquire and repower the 43.35 MW Foote Creek II-IV facilities, qualifying the project for production tax credits and generating zero fuel cost energy for customers.

Repowering will entail the decommissioning of the existing 64 wind turbines at the project site with nameplate ratings between 600 kW and 750 kW and the installation of up to 15 new, modern turbines. The extraordinary wind resource at the Foote Creek Rim site location is estimated to result in a repowered facility with a capacity factor approaching 50 percent. Earlier purchase of the master wind energy lease rights for the site results in favorable land rights payments as compared to current market rates and contributes to the favorable economics of the project. PacifiCorp acquired the project from Terra-Gen in June 2022. All project contracts are executed and in place. Construction activity began in June 2022 and the project is on track to achieve the anticipated in-service date.

**TRANSMISSION PLANT ADDITIONS:**

**Enhanced Substation Security (In-Service Date Various) (Reference page 8.4.37)**
This project is needed to meet the Critical Infrastructure Protection (CIP) compliance guidelines for security protection of substations. This project is in response to increased incidents of hostile attacks on substations and utility equipment in North America.

**TMP Q2913 TSR , (In-Service Date 01/31/2025) (Reference page 8.4.37)**
This project completes the new facilities identified through the system impact and facilities study in order for customer to receive 100 MW of Point-to-Point transmission service on PacifiCorp's transmission system with an agreed operation date of January 2025. Work includes rebuilding segments and reconductoring other segments of the Ben Lomond-El Monte 138kV #1 line as well as reconductoring Goshen-Fish Creek-Grace 161kV and Grace-Oneida-Treasureton 138kV lines. Also included are required apparatus and communication upgrades at effective substations.

**Project Specialized, (In-Service Date 06/30/2024) (Reference page 8.4.37)**
This is a Customer driven project to make necessary upgrades to serve 242 MW of new load for Project Specialized located in Oregon. System impact studies performed by Transmission Planning have determined that there are no suitable Company-owned facilities at or near the project site that could adequately serve this load. Therefore, new substation and transmission facilities need to be constructed

in order to provide service to this new major load addition.

**Burns 500 kV Series Capacitor Bank Replacement, (In-Service Date 05/15/2024) (Reference page 8.4.37)**
The plant investment replaces the entire Burns 500 kV reactive station, including the series capacitor bank (SC-355), bypass breakers, shunt reactors, and all switches and circuit switchers in Burns, Oregon. This project increases reliability of operations for two WECC defined paths used to transfer east generation such as Jim Bridger and Wyoming wind to the west as well as increase the reliability of operations and safety to personnel who maintain the capacitor bank. A long-term outage of the Burns series capacitor unit would trigger mitigation actions requiring extensive coordination between the three affected utilities (PacifiCorp, Idaho Power, and Bonneville Power Administration) and would likely lead to total path reductions ranging from at least 150 MW.

**Project Litespeed, (In-Service Date 12/30/2024) (Reference page 8.4.37)**
This is a Customer driven project to make necessary upgrades to serve 242 MW of new load for Project Litespeed located in Oregon. System impact studies performed by Transmission Planning have determined that there are no suitable Company-owned facilities at or near the project site that could adequately serve this load. Therefore, new substation and transmission facilities need to be constructed in order to provide service to this new major load addition.

**Path C Transmission Improvements, (In-Service Date 11/15/2023) (Reference page 8.4.37)**
This project will add a new 345/138 kV source in northern Utah and southeast Idaho by looping the existing Populus – Terminal 345 kV line in and out of the Bridgerland substation as well as Ben Lomond substation. The project also includes upgrades at Bridgerland substation including a 345/138 kV 700 MVA autotransformer; a new 345 kV bus; three 345 kV breakers; and four 138 kV breakers. This new 345/138 kV source will improve the reliability of the 138 kV system, which runs parallel to Path C and will maintain the current Path C ratings as well as add operational flexibility under outage conditions at Ben Lomond substation.

**Klamath Falls - Snow Goose 230 kV Line No. 2 TPL, (In-Service Date 03/15/2022) (Reference page 8.4.37)**
This project builds a second 230 kV transmission line from Snow Goose to Klamath Falls substation located in Klamath County, Oregon. The project is needed to maintain compliance with the North American Electric Reliability Corporation (NERC) Reliability Standard TPL-001-4 and Western Electricity Coordinating Council (WECC) Criterion TPL-001-WECC-CRT-3.1 for double contingencies on the 230 kV system serving Yreka, Klamath Falls and La Pine area. The TPL-001-4 category P6 (N-1-1) contingency for the loss of the Klamath Falls-Snow Goose 230 kV line and either the Lone Pine-Copco 230 kV line or Bonneville Power Administration's (BPA) Pilot Butte-La Pine 230 kV line can cause a voltage collapse affecting a large region of the southern Oregon and northern California system. The proposed transmission line will mitigate risks on the existing system by reinforcing the area 230 kV system with a new source from Snow Goose substation.

**Camp Williams 345-138 kV Transformer and 138 kV Yard Additions, (In-Service Date 05/15/2025) (Reference page 8.4.37)**
This project replaces the existing 345-138 kV 167 MVA transformer at Camp Williams substation, located in Bluffdale, Utah, with a new 345-138 kV 700 MVA transformer to provide additional 345 kV capacity. The project also builds a new 138 kV breaker-and-a-half substation, ties two nearby 138 kV lines together within the new 138 kV substation and moves the Camp Williams – 90th South #2 line to a new 345 kV line position.

The project is needed to ensure compliance with the North American Electric Reliability Corporation (NERC) Reliability Standard TPL-001-4 Category P6 (N-1-1) performance violations for the loss of both Spanish Fork substation 345-138 kV transformers that would cause thermal overloads to the Camp Williams 345-138 kV transformer and the Clover – Nebo 138 kV line as well loss of both the Oquirrh 345-

138 kV 700 MVA transformers causes the 90th South – Oquirrh 138 kV line to overload to 123% of its summer thirty-minute rating of 425 MVA.

**Lone Pine- Whetstone 230kV Line, (In-Service Date 05/15/2024) (Reference page 8.4.37**
This project builds a 230 kV transmission line between Lone Pine and Whetstone substations located in Jackson County, Oregon. The project is needed to ensure compliance with the North American Electric Reliability Corporation (NERC) Reliability Standard TPL-001-4 and Western Electricity Coordinating Council (WECC) Criterion TPL-001-WECC-CRT-3.1 for category P6 (N-1-1) contingencies on the 230 kV system in southern Oregon. The proposed Lone Pine-Whetstone 230 kV line takes advantage of the planned Sams Valley 500-230 kV substation to provide 230 kV reinforcement at Lone Pine and Whetstone substations, mitigating system deficiencies associated with four N-1-1 outage combinations. The new line would also allow operating the Medford 115 kV system radial.

**St Johns (BPA) to Knott 115kV Line Conversion Project, (In-Service Date Various) (Reference page 8.4.37)**
This project will reconfigure and convert the existing Portland General Electric's (PGE) St. Johns – Columbia and PacifiCorp's Columbia – Knott 57 kV lines, and a portion of the idle 69 kV line north of Albina (former 69 kV Sundial Line) to 115 kV, located in Portland, Oregon. In addition to the voltage conversion, this project will add a tap to provide a third 115 kV transmission source to Albina substation. The project eliminates a NERC Standard TPL-001-4 Category P6 (N-1-1) deficiency, resolves the 57 kV system under voltage issues in the North Portland area, and creates a three-way source into Albina, improving reliability for Albina and Knott substations significantly.

**Malin – Bonanza -new 69 kV line, (In-Service Date 11/15/2024) (Reference page 8.4.37)**
This project builds a new 69 kV line from Malin substation to near Bonanza, Oregon, to relieve transformer overloading at Klamath Falls substation and improve supply reliability to five substations in the area.

**Klamath Dam Removal (ESM), (In-Service Date 03/15/2025) (Reference page 8.4.37)**
This project completes the needed facilities to maintain PacifiCorp's transmission system following the decommissioning of the six Klamath River hydro generating resources as per the construction agreement between PacifiCorp Transmission and PacifiCorp Energy Supply Management business. The transmission network upgrades and direct assignment facilities that were identified include work at COPCO 1 69 kV and COPCO 2 230 kV switch yards; COPCO 2, J.C. Boyle, Klamath Falls, East Side, and West Side substation; COPCO 2 and East Side Plants; and removal of the Iron Gate and J.C. Boyle transmission lines.

**Klamath Falls to Malin 230kV Line Replacement, (In-Service Date 11/25/2025) (Reference page 8.4.37)**
This project rebuilds the existing 230 kV lines between Klamath Falls – Copco 2, Copco 2 – Lone Pine, Snow Goose – Pickett and Pickett – Malin by removing the existing lines and building new lines in their place with current framing standards and larger conductor. The proposed 230 kV system upgrades will provide increased reliability and improve operational flexibility for conditions with high south-to-north flows on the California/Oregon Intertie. These upgrades will resolve thermal issues observed for major 230 kV and 500 kV outages in southern Oregon.

**Castle Valley Substation - Trans, (In-Service Date 05/15/2025) (Reference page 8.4.37)**
This project will construct a new Castle Valley 69-25 kV substation near Rattlesnake circuit 22, construct a new Arches three breaker ring bus substation at GPS coordinates 38°26'15.05"N, 109°25'22.59"W on the Moab-Pinto 69 kV line near Rattlesnake circuit 22, and construct a new 17.24 mile 795-ACSR 69 kV transmission line with 3#4/0-AS distribution underbuild and OPGW.

Growth in the rural areas surrounding the La Sal mountains in Southeast Utah has resulted in recorded voltages on Rattlesnake circuit 22 as low as 0.94 per unit (113 volts) in summer 2021. These

measurements exceed the minimum voltage level of 114 volts specified by ANSI range A. Voltage is projected to be as low as 0.92 per unit (110 volts) at Pack Creek, Castle Valley and Cisco communities. The Rattlesnake circuit 22 already has four regulating devices in series and it is not feasible to coordinate additional regulating devices on the main line.

**Walla Walla 69kV Loop Reconfigure and Reconductor, (In-Service Date 11/15/2023) (Reference page 8.4.37)**
This project reconductors and rebuilds 11.68 miles of 69 kV line to eliminate system deficiencies identified in the Walla Walla Washington core area including overloads and low voltage in the area during both the heavy summer and winter conditions. The reconfiguration of the Yellow Hawk and Pine Creek lines removes a large portion of aged 1/0 Copper from service and provides an express path to Walla Walla for the connected generation at Combine Hills. The reconfiguration sets up the Pine Creek line for future connection to a College Place area substation.

**Aeolus Sub Transformer Event Resolution, (In-Service Date 10/15/2023) (Reference page 8.4.37)**
This project is to repair and replace damaged equipment at Aeolus substation due to a fire at the substation on September 29, 2021, that led to the total loss of the 500/230 kilovolt A-Phase transformer unit.

**Loop 90 South - Terminal into MidValley 345 line, (In-Service Date 05/15/2024) (Reference page 8.4.37)**
This project will loop the 90th South – Terminal 345 kV line into and out of the Midvalley 345 kV yard located in Salt Lake City, Utah. This project will increase reliability at Midvalley substation and eliminate the overloading on the 90th South to Midvalley 345 #1 line. The project will also increase transfer capability by 45 MW on the Wasatch Front South transfer path.

**OTP188 UAMPS Lehi 138kV Loop (Carter to Saratoga), (In-Service Date 05/15/2024) (Reference page 8.4.37)**
This project is due to a request by Utah Associated Municipal Power Systems on behalf of their customer Lehi City to continue improvements in the northern Utah County. This project creates a 138 kV loop for Carter, Bull River, and Littlefield substations. These substations are located in Lehi, Utah County, Utah, and are owned/operated by the Lehi City Municipal Power Company. The existing Highland-Carter 138 kV line will be looped into Saratoga substation. This requires rebuilding 1.6 miles of 138 kV transmission line between Lehi's Carter substation and the Saratoga tap. It also requires a four-breaker ring bus at Saratoga substation. This is a phased project. The in-service date for the ring bus is May 15, 2024 and rebuild of the transmission line is November 15, 2025.

**GENERAL and INTANGILE PLANT ADDITIONS:**

**North Temple Property, (In-Service Date Various) (Reference page 8.4.44)**
This project will replace the aging North Temple Office building (NTO) with three new facilities. The three facilities are 1) a Utah corporate headquarters building (HQ) that will house team functions including staff in Engineering, Regulation, Legal, Finance, Facilities and Property Management, Customer/Community Solutions, Environmental Management, Fuels Procurement and Mining, Wind and Solar Resource Development, Health and Safety, and Thermal Generation divisions; 2) the Essential Services Building (ESB) which will house the electrical grid operations dispatch and control center, Global Security Operations Center (Security Center), IT data center and customer care center; 3) a parking structure for employees working at the HQ and ESB. Incorporating the customer care center will allow for the future sale of the Wasatch Front Call Center (WFCC) operations located in West Valley City, Utah. Additionally, the project seeks third-party construction of a vibrant community at the Power District (North Temple Campus). The third-party construction will be on available acreages via ground leases to developers. These ground leases and the future sale and/or lease of the WFCC will be used to reduce customer rate impacts from the project.

**New SLC Data Center, (In-Service Date 12/31/2025) (Reference pages 8.4.44, 8.4.46)**
Rocky Mountain Power (RMP) is developing the property that currently has the RMP service center, the North Temple Office (NTO), a storage yard, the Gadsby Power plant and 3 gas peaking generators. This development includes a new office building for RMP and a new Data Center and Electric Operations building. As part of the development, the old North Temple Office will be torn down and replaced with mixed use retail and residential facilities. This funding will be used to fund the design for the IT buildout of the new data center and design migration plans from the old NTO data center to the new facility. The project includes operational technology (controls), communications and information technology (corporate) considerations.

**Index AR Training Modules V2, (In-Service Date Various) (Reference page 8.4.44)**
The Index AR Solutions Program provides an updated foundation for five major training programs for T&D Operations. It is a strategic investment to digitize five key training programs for T&D Operations in support of the Commitment to Excellence Program. Index AR Solutions will create innovative mobile applications and eBooks that will deploy photos, videos, interactive graphics, animation, and augmented reality training on mobile (iOS) devices. The program will provide a digital curriculum to aid worker safety, knowledge retention, support apprenticeship training and enable remote learning to meet the evolving needs and requirements of our field employees.

**LCT Open Office Plan, (In-Service Date 06/30/2023) (Reference page 8.4.44)**
This project provides for the remodeling of the Lloyd Center Tower (LCT) building in Portland, Oregon, to a concept that allows for greater employee engagement. The remodel is expected to create a sustainable competitive advantage ultimately benefitting customers through higher employee retention and recruitment, enhanced productivity, and greater operational performance. Assets will include architectural services, construction of conference rooms and enclaves. It includes the installation of power/data/phone wiring, flooring, furniture, appliances, and finishes on the floors. Construct and furnish two common breakrooms: one breakroom on floor 6 and another on floor 18. Project will be completed by the end of 2023

**Oracle Customer Information System - Capital, (In-Service Date 09/30/2025) (Reference page 8.4.4)**
PacifiCorp's existing customer support meter to pay, outage management, and mobile solution is heavily customized and relies on aging infrastructure that is at end of life. Deploying modern mobile support capability and security enhancements is slow and costly. Solutions were evaluated to replace the existing system with an available vendor solution. A project is in development to replace the existing system with a fully featured customer service system that will supporting the customer service, operations, finance, and several other departments. The software will include significant new automation to interface with the work management system for effective dispatch of repair crews during restoration activities. By utilizing a vended solution with minimized customization, the business will automatically gain enhancements as the vendor releases new functionality. The system will integrate to significantly enhanced customer mobile application and smart metering, delivering improved information directly to customer service representatives and to the customers. These solutions will also improve the efficiency of the business and IT support services required to provide these core services long term. At a high level the following functions will be delivered:

Customer to Meter (C2M) optimized processes will be delivered to PacifiCorp, implementing the following business functions:

- Customer service management including establishing service, start, stop and transfer of service
- Meter and usage management
- Meter and instrumentation service and inspection management
- Billing and usage
- Payment and refund management and processing, NACHA compliance
- Credit and collections
- Field service work order and optimized resource management
- Customer support and digital assistant

Digital Self Service Transactions (DSS-T) optimized processes will be delivered to PacifiCorp, implementing the following business functions:

- Customer data, contact and history management
- Manage customer premise-based service changes
- View billing and usage, pay bill and history
- Customer notifications, customer process program enrolment management (such as budget payments, paperless billing, energy snapshots)
- Customer service request management and workflow

Customer communications will be significantly improved with the implementation of Customer Marketing Communications (CXM), including the following business functions:

- Customer marketing platforms including portals, email, or SMS push
- Customer marketing and campaign feedback including engagement metrics, campaign reports, and analytics dashboard
- Exception Management

**Oracle Back-office (ERP/EPM/SCM) - Capital, (In-Service Date 01/31/2025) (Reference page 8.4.46)**
PacifiCorp's existing back-office finance systems are on premise applications and approaching end of life, requiring major upgrade. The current system lacks many modern capabilities that would improve the efficiency of company resources including automated invoice scanning, integration to key vendors and invoice standardization and capital project software for automated reporting. This project will include a re-design of 20+ year old business processes producing processes that are optimized for the business user and support resources.

A common vended solution with minimized customization is being implemented for the finance, supply chain, human capital management, core customer, operations field services, and network management systems. These comprehensive set of solutions under one vendor significantly reduce the security risks, integration pain points, and vendor management: while providing economies of scale, interoperability, and efficiency gains to PacifiCorp. A single provider also enables additional cost controls, economies of scale, reduced interface work, reduction in additional systems, and streamlines patching programs/maintenance/security utilizing the same platform provider as the software provider. The business will automatically gain enhancements as the vendor releases new functionality.

ERP Financial optimized processes will be delivered to PacifiCorp, implementing the following business functions:

- General ledger and asset financial management, tax, and depreciation
- Account payable, automated clearing house and OCR integration
- Expense reporting
- Cash management
- Accounting hub
- Receivables and collection
- Invoice, billing, and collection
- Capital and OPEX planning
- Chart of accounts
- Monthly close
- Accounting reconciliation and month-end balancing
- Advanced financial controls, cash leak and fraud detection
- Financial reporting compliance

ERP Procurement and Supply Chain Management optimized processes will be delivered to PacifiCorp, implementing the following business functions:

- Procurement parts catalog
- Purchase to pay
- Multi-factory supply chain planning
- Production and consumption forecasting
- Material requirements
- Supplier qualification and management
- Inventory management
- Sales order management

**Power Plan, (In-Service Date 03/31/2024) (Reference page 8.4.46)**
This project will upgrade Power Plan to the latest cloud-based version. As PacifiCorp is replacing its core finance applications, the timing of financial modeling software replacement is aligned to minimize the cost impact of the upgrade while moving to latest cloud version, allowing the business to automatically gain enhancements as the vendor releases new functionality in the future.

**WAM (Maximo) Phase 1a Capital Substation (plus Power Base), (In-Service Date 07/31/2022) (Reference page 8.4.46)**
PacifiCorp's existing work asset management system relies on processes that were designed more than 20 years ago and aging infrastructure that is at end of life. Replacement systems were evaluated, and Maximo was selected for the replacement system based on pricing and features. By utilizing a vended solution with minimized customization, the business will automatically gain enhancements as the vendor releases new functionality.

Concurrent with this project, PacifiCorp is implementing a common vended solution with minimized customization for the finance, supply chain, human capital management, core customer, operations field services, and network management systems. The upgraded work asset management system will integrate with all these systems, and key systems at PacifiCorp including powerbase (relay testing software) and Smart Advanced Metering Infrastructure (AMI).

The new Work Asset Management system will be deployed in several waves. This wave includes the following deliverables:

- Maximo Enterprise Asset Management (EAM) implementation for Transmission and Distribution
- GIS implementation for Transmission and Distribution
- Enterprise Integration implementation to support all work in this phase and to provide a framework for future phases
- Modify legacy systems to support updated EAM processes

**WAM (Maximo) Phase 1b Capital Wires, (In-Service Date 07/31/2023) (Reference page 8.4.46)**
PacifiCorp's existing work asset management system relies on processes that were designed more than 20 years ago and aging infrastructure that is at end of life. Replacement systems were evaluated, and Maximo was selected for the replacement system based on pricing and features. By utilizing a vended solution with minimized customization, the business will automatically gain enhancements as the vendor releases new functionality.

Concurrent with this project, PacifiCorp is implementing a common vended solution with minimized customization for the finance, supply chain, human capital management, core customer, operations field services, and network management systems. The upgraded work asset management system will integrate with all these systems, and key systems at PacifiCorp including powerbase (relay testing software) and Smart Advanced Metering Infrastructure (AMI).

- The new Work Asset Management system will be deployed in several waves. This wave includes the following deliverables:
- Maximo Enterprise Asset Management (EAM) implementation for Generation

- Enterprise Integration implementation to support all work in this phase and to provide a framework for future phases
- Modify legacy systems to support updated EAM processes

**APM - Asset Performance Maintenance, (In-Service Date 12/31/2025) (Reference page 8.4.46)**
On our journey to operation excellence, we must accelerate digital innovation to support business teams in operating and maintaining our assets better at lower costs. Deploying advanced digital technologies such as artificial intelligence, machine learning and scenario planning tools will capture value form our vast asset data to generate proactive insights to improve asset performance.

a. Customer Service
   This program will allow us to increase reliability to our customers by proactively replacing assets with a higher consequence and likelihood of failure. This will help reduce customer outages and increase customer satisfaction.
b. Reliability
   We will see greater reliability, as we shift from corrective maintenance to preventative maintenance. This will occur by replacing assets before they fail, increasing the reliability of the asset and decreasing amount of customer interruptions. We will be more able to track the effectiveness of reliability improvement plans.
c. Risk Mitigation
   A major component of asset performance and investment management is the development of asset health indices. Asset health models consider the probability of failure and consequence of failure to assess the health of an asset fleet and assist in prioritization of asset replacement programs. The goal of asset health indices is to mitigate risk and ensure funds are allocated appropriately to address assets with unfavorable health scores.

**Oracle Back-office (HCM) - Capital, (In-Service Date 01/31/2025) (Reference page 8.4.46)**
PacifiCorp's existing back-office human capital management systems are on premise applications and approaching end of life, requiring major upgrade. The current system lacks many modern capabilities that would improve the efficiency of company resources including inefficient onboarding processes, automatic resume parsing for reporting of diverse candidates, integration to key human resources parties such as background check vendors and automated tracking of training for all types of resources that require company training. This project will include a re-design of 20+ year old business processes producing processes that are optimized for the business user and support resources.

A common vended solution with minimized customization is being implemented for the finance, supply chain, human capital management, core customer, operations field services, and network management systems. These comprehensive set of solutions under one vendor significantly reduce the security risks, integration pain points, and vendor management: while providing economies of scale, interoperability, and efficiency gains to PacifiCorp. A single provider also enables additional cost controls, economies of scale, reduced interface work, reduction in additional systems, and streamlines patching programs/maintenance/security utilizing the same platform provider as the software provider. The business will automatically gain enhancements as the vendor releases new functionality.

HCM Human Resources Management optimized processes will be delivered to PacifiCorp, implementing the following business functions:

- Add, terminate, and transfer workers
- Employee HR requests and grievance tracking
- Benefits enrolment and management
- Workforce planning
- Recruiting and onboarding
- Compensation
- Talent management, goals, performance, and succession planning
- Learning

- Time off and absence management
- Time reporting and approval
- Health and safety incidents
- Payroll

**Maximo PAC Generation Release (not in original scope of Field Ai), (In-Service Date 06/30/2024) (Reference pages 8.4.44, 8.4.46)**
PacifiCorp's existing work asset management system relies on processes that were designed more than 20 years ago and aging infrastructure that is at end of life. Replacement systems were evaluated, and Maximo was selected for the replacement system based on pricing and features. By utilizing a vended solution with minimized customization, the business will automatically gain enhancements as the vendor releases new functionality.

Concurrent with this project, PacifiCorp is implementing a common vended solution with minimized customization for the finance, supply chain, human capital management, core customer, operations field services, and network management systems. The upgraded work asset management system will integrate with all these systems, and key systems at PacifiCorp including powerbase (relay testing software) and Smart Advanced Metering Infrastructure (AMI).

The asset management transformation effort focuses on seven core areas. The seven core areas include:

- Asset Creation
- Asset Maintenance and Compliance Planning
- Asset Inspection and Condition Assessment
- Asset Life and Health Modelling
- Asset Investment Planning
- Asset Repair or Replacement
- Asset Performance Monitoring

**Oracle- Mobile GIS, (In-Service Date 12/31/2025) (Reference pages 8.4.44, 8.4.46)**
Mobile GIS is a project that will complete the design and build of a mobile Geographic Information System (GIS) that will integrate into Oracle Field Service (OFS) solution and provide PacifiCorp field personnel the ability to view, edit and submit asset and inspection data accurately and efficiently. The project is expected to deliver the following benefits: productivity gains (time saved due to reduction of non-value added steps), zero incidents (savings due to reduced injuries and expected lower insurance payouts), new ways of working (improved revenues from reduced customer interruptions, driven by faster crew response), field mobility operations (elimination of costs of IT systems such as Nomad, ITS, etc. which the Mobile GIS solution will replace) and O&M reduction (reduction in total number of truck rolls through better work planning and cost per truck roll with better navigation and grouping).

**PAC FIPS 201 (Phys Security Repl), (In-Service Date 06/30/2024) (Reference pages 8.4.44, 8.4.46)**
Physical Access Control to PacifiCorp facilities is critical for employee safety and continuity of business operations. Insuring only authorized personnel access CIP Critical areas, IT Critical areas, designated control areas, generation sites, and business facilities is driving this technology upgrade for PacifiCorp. PacifiCorp's legacy PACS, Pinnacle, is outdated and not capable of complying with the BHE Information Security Policy requirements. It relies on proprietary components and is only capable of complying with various regulatory standards, including NERC CIPS, due to heavy after-market customization that has locked PacifiCorp into sole-source procurement agreements with the only supporting vendor in PacifiCorp's geographic territory. Berkshire Hathaway Energy Information Security Policy: 210, Physical Security Controls Policy. 210.1.2 Physical Access Control Systems requires: Newly acquired or upgraded Physical Access Control Systems must meet or exceed the system specifications of the National Institute of Standards and Technology Federal Information Processing Standard (FIPS) 201-2 Personal Identity Verification (PIV) of Federal Employees and Contractors

**Oracle- UII, (In-Service Date 12/31/2025) (Reference pages 8.4.44, 8.4.46)**
PacifiCorp is moving to the newest version of UI that is on their latest software ("B2") and is also on the cloud. These costs cover the license, software hosting, software maintenance, and implementation fees (build, test, train, deploy) for the new UI model. As PacifiCorp is replacing its core finance applications, the timing of financial modeling software replacement is aligned to minimize the cost impact of the upgrade. The project will also help facilitate better strategic decision making from PAC leadership as a result of a higher quality forecast/plan.

**Oracle Technology - Analytics, (In-Service Date 12/31/2025)**
The Oracle Technology project includes investment in the foundational cloud-based architecture and data/analytics warehouse environments necessary to support the deployment of PacifiCorp's oracle-based systems. This project includes several components to ensure data integrity, data security and failover and disaster recovery. The project scope also includes analytics and reporting to support PacifiCorp ongoing operations and utilization of artificial intelligence and machine learning to predict power generation and loss during severe weather conditions using wind turbine telemetry.

**Oracle Capital Projects (OCE), (In-Service Date 1/31/2025)**
PacifiCorp has an aging capital project management suite with limited functionality. A project is in development to upgrade to a fully featured capital project software suite that will supporting the engineering, operations, and IT departments. The software will include significant new automation to interface with the finance and accounting system providing improved reporting and ordering capabilities, empowering and improving the long-term efficiency of these teams as they deliver new capital projects to our customers.

Capital Project Management optimized software and processes will be delivered to PacifiCorp implementing the following business functions:
Project work breakdown structure, schedule and resource management

- Project budget, estimate, approved budget, spend tracking
- Proposal, bid, vendor, purchase order, contract management and tracking
- Planning and permits
- Project gates, document management, meeting minutes, action items, punch list, lessons learned, drawings, design reviews, submittals and approvals
- Management across a portfolio of projects, including project security, budget planning, schedule, resource planning, business case, prioritization, risk and issue management, project actuals, forecast and change tracking
- Advanced project and resource management analytics