

# Item 8.2: 2020 Major Projects Update

*Mandy Bauld* Sr. Director, PMO

**Board of Directors Meeting** 

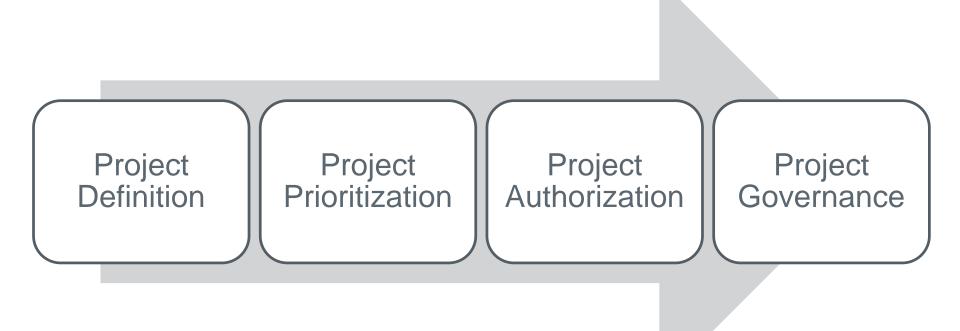
ERCOT Public February 11, 2020



ERCOT Project Portfolio Management
 2019 Project Delivery
 2020 Major Project Highlights



# **ERCOT Project Portfolio Management**

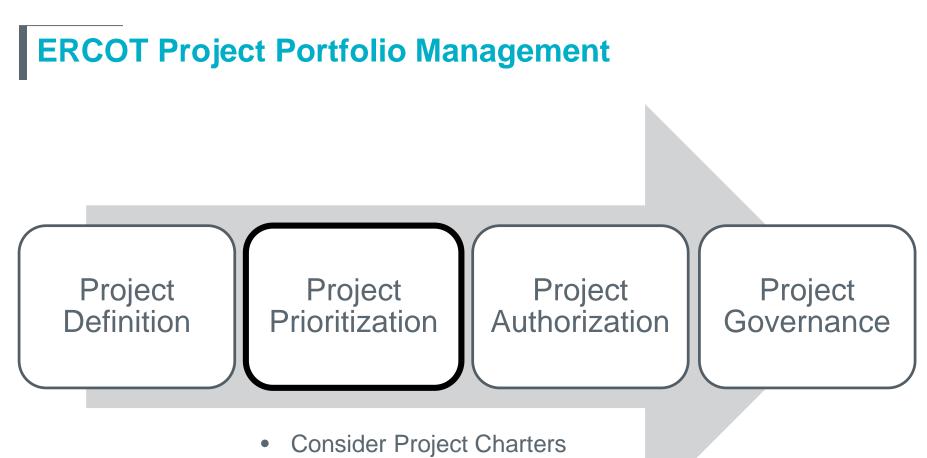






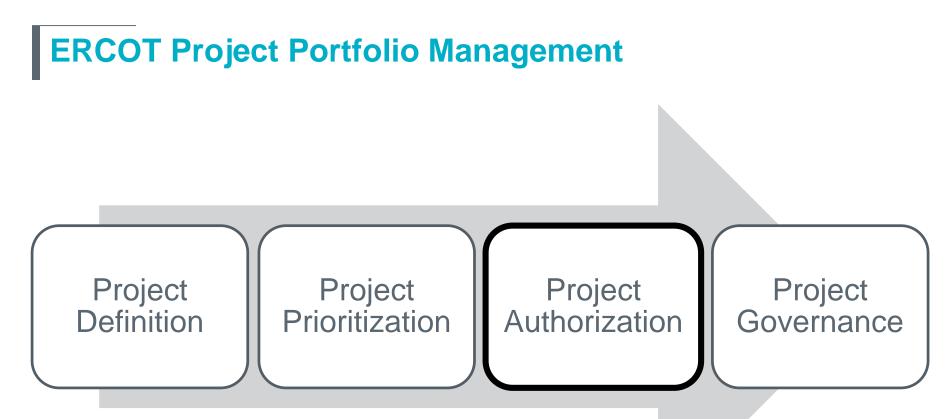
- Submit Project Concept
- Submit Project Charter
- Build Impact Analysis
- Ongoing Basis





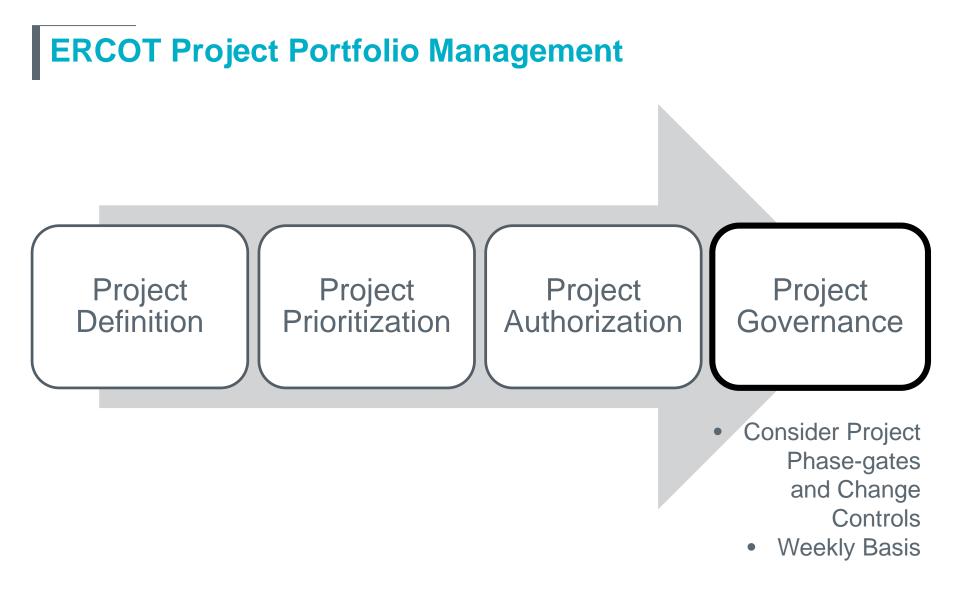
- Approve Projects for Project
  Prioritization List (PPL)
- Monthly Basis



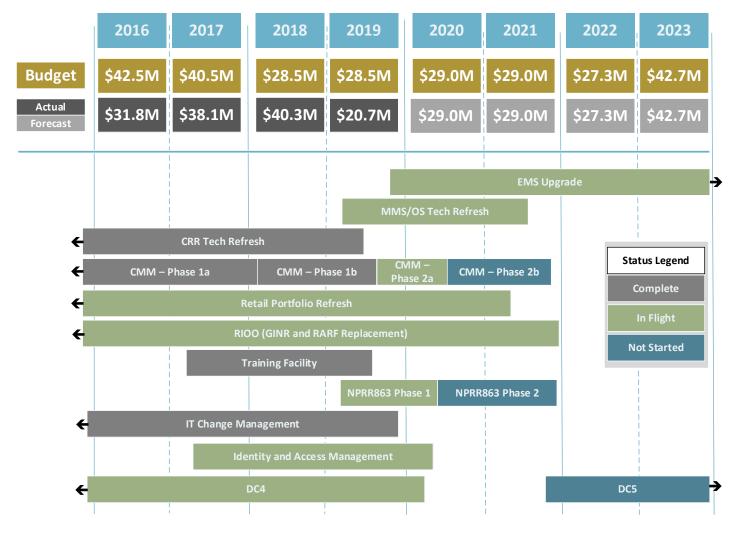


- Authorize Project Starts
- Quarterly Basis





# **PPL Activity 2016-2023**



Subset of projects illustrated includes Major Projects highlighted to the BOD

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# 2019 Project Delivery



# **2019 Project Delivery**

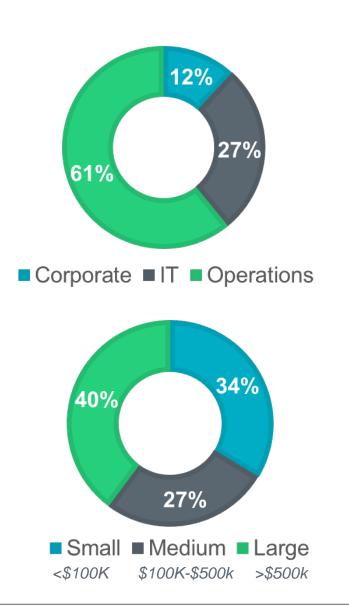
\$20.7m project spend

113 unique projects active in 2019

49 average # active projects

67 projects completed

Data as of 1/20/2019





# 2020 Major Project Highlights



# **Current ERCOT Enterprise Objectives**

Establish rules for new resources and market modernization.

Improve data and information exchange services to ERCOT stakeholders.

- Resource Integration & Ongoing Operations (RIOO)
- Enterprise Content Management System (ECMS)

Complete defined stages of core system and service improvements.

- Market Management System/Outage Scheduler (MMS/OS) Tech Refresh
- Retail Portfolio Refresh
- Fast Frequency Response (FFR) & ERCOT Contingency Reserve Service (ECRS) Implementation



# RIOO

# Improve data and information exchange services to ERCOT stakeholders.

### Overview

• Replace the current Resource Asset Registration Form (RARF) spreadsheet with an online solution.

### Benefits

 Reduction of manual processes, streamlining and automation of submittal and validation processes, improved transparency and access to data, improved data validation, improved usability.

### Details

- Multiple releases towards RARF spreadsheet retirement. 2020 will deliver the RIOO function that enables Market Participants to electronically review and edit existing Resource Asset registration data.
- Target Completion: 2021\*
- Total Spend: \$6M\*
- 2020 Spend: \$3.1M
- \*Q2 2020 will establish completion date and budget for remaining work that will incorporate create and delete capabilities into the system.





# Improve data and information exchange services to ERCOT stakeholders.

### Overview

 Implement a solution to manage content in alignment with information governance and records management policies, other ERCOT systems integration, and managed metadata as defined by the ERCOT taxonomy. Establish the foundation for an improved user experience on ERCOT.com and MIS.

### Benefits

• Complete & secure document management, information governance policy enforcement, improved search capability, and consolidated platform.

### Details

- Multiple releases
- Target Completion: 2021
- Total Spend: \$3M 3.5M
- 2020 Spend: \$1.5M



# **MMS/OS Tech Refresh**

# Complete defined stages of core system and service improvements.

#### Overview

 Support reliability of the Market Management and the Outage Scheduler Systems though replacement of aging technology that is approaching end-oflife and support.

#### **Benefits**

• Supported platforms, modern architecture, enhanced security, enhanced testing capabilities, alignment for vendor maintenance and software support.

### Details

- Target Go-Live: Q4 2020
- Target Completion: Q2 2021
- Total Spend: \$6.4M \$7M
- 2020 Spend: \$5.6M



# **Retail Portfolio Refresh**

# Complete defined stages of core system and service improvements.

#### Overview

 Improve support and maintenance capability for the Retail systems by upgrading or replacing aging retail system products and platforms. The program governs multiple projects delivering the technical foundation changes.

#### **Benefits**

• Improved reliability and uptime, supported platforms, modern architecture, enhanced security, improved business rule management.

#### Details

• Focus is on technical refresh in three areas.

EDI Map & Translator Replacement Target Completion: Q4 2020 Total Spend: \$2.7M -\$3M 2020 Spend: \$939K

NAESB Application Tech Refresh Target Completion: Q4 2020 Total Spend: \$240K-\$270K 2020 Spend: \$238K Registration System Upgrade Target Completion: 2021 Total Spend: \$900K - \$1M 2020 Spend: \$419k

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# FFR & ECRS (NPRR863, NPRR960)

# Complete defined stages of core system and service improvements.

#### **Overview**

• Modify Responsive Reserve (RRS) to be primarily a frequency response service and create a new Ancillary Service: ERCOT Contingency Reserve Service (ECRS).

#### **Benefits**

 Changes in Ancillary Services as described in Board approved NPRR863 and NPRR960.

#### **Details**

 Phased delivery through separate projects; no earlier than January 1, 2020 for Fast Frequency Response (FFR)-related language, and no earlier than January 1, 2022 for ERCOT Contingency Reserve Service (ECRS)-related language.

**FFR** Implementation Effective Date: March 1, 2020 Total Budget: \$600-650K 2020 Budget: \$275K

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**ECRS & FFR Implementation Target Completion**: 2022 Total Budget: \$2M - \$2.5M 2020 Budget: \$1.1M

# **Ongoing Updates or Market Engagement**

- Board of Directors (all highlighted projects)
  Resource Integration Workshops (RIOO)
  TAC (ECMS)
- Retail Market Subcommittee (Retail Portfolio)

