

**Board of Regents Update  
NextGen Energy System Program  
Executive Summary**

January 25, 2018



# Agenda

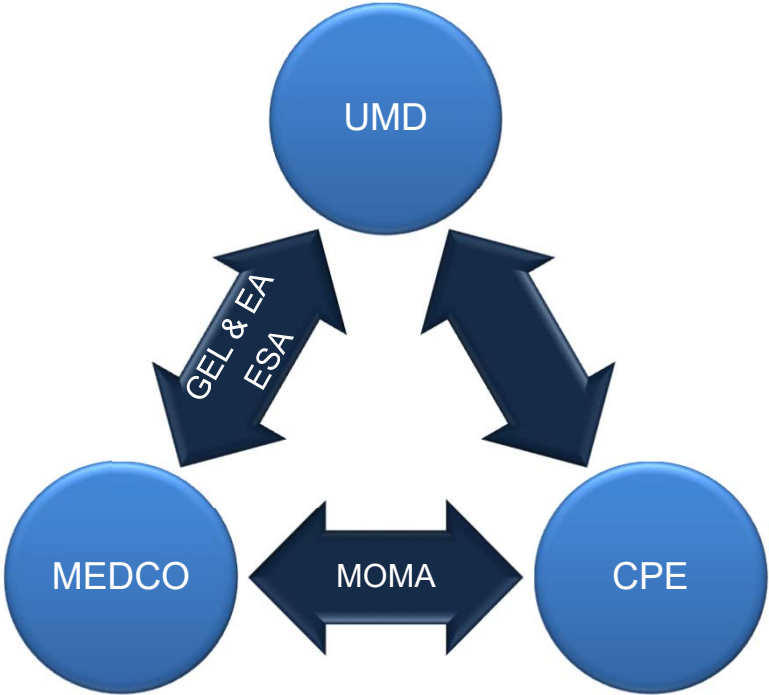
- Current Energy System Agreement Structure
- Driving the Need to Renew Energy System
- NextGen Energy System Program Scope
- NextGen Energy System Program Timeline
- Current & Interim Energy Systems Program Timeline

# Current Energy System Agreement Structure

Energy & Utility Infrastructure was renewed in 1999

Contractual Agreements amongst parties:

Agreement	Expiration
Ground & Equipment Lease Agreement (GEL)	June 2029
Easement Agreement (EA)	June 2029
Energy Services Agreement (ESA)	August 2019
Management, Operations and Maintenance Agreement (MOMA)	August 2019



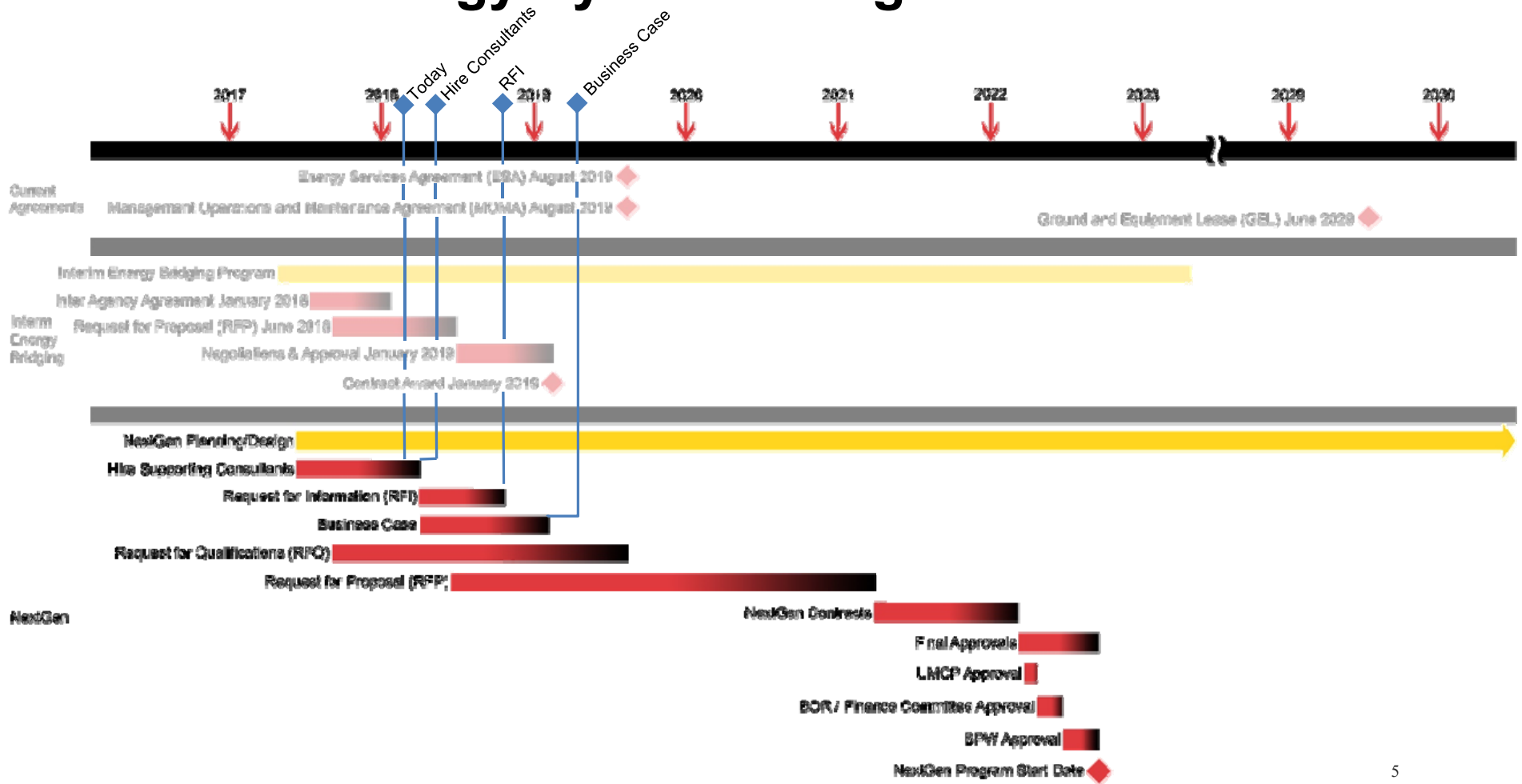
# Driving the Need to Renew Energy System

- Central Energy Plant (CEP) GE Combustion Turbines
  - Past Operational Life
  - Unreliable and not supported by manufacturer
- Utility Conditions Assessments performed in 2016:
  - Existing CEP requires major capital infusion
  - Steam Distribution system losses (29% of supplied steam)
  - 40% of the steam distribution system is 30 years beyond life expectancy

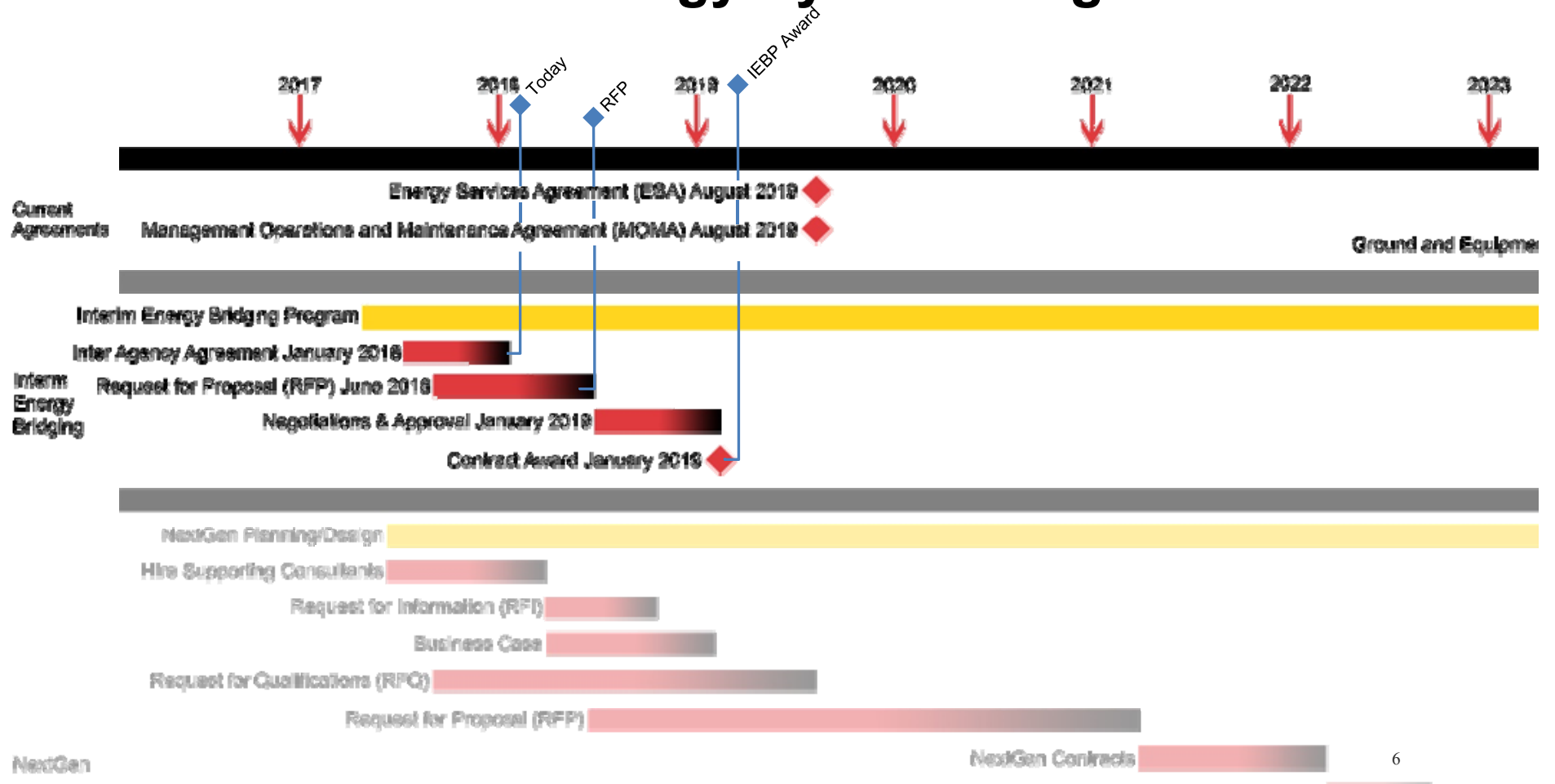
# Develop NextGen Energy System Program Scope

- Repower central energy plant
- Renew thermal distribution system
- Deploy assets that will have value beyond the end of NextGen contract
- Install controls upgrade to add resiliency and reliability
- Optimize plant controls to achieve energy savings.
- Deliver renewable energy strategies.

# NextGen Energy Systems Program Timeline



# Current & Interim Energy System Program Timeline



# QUESTIONS





UNIVERSITY OF  
MARYLAND