

# RASTF Key Work Activities Overview

RASTF

September 22, 2022

IMM



Monitoring Analytics

# Capacity market basics

- **The capacity market is a competitive mechanism that exists to make the energy market work.**
- **What are the essential, realistic, implementable elements of a capacity market design?**

# Groups of KWAs

- **Group 1 (Demand)**
  - A. Reliability Risks and Drivers (Key Work Activity 2)
  - B. Procurement Level and Metric (Key Work Activity 3)
- **Group 2 (Supply)**
  - C. Performance Assessment (Key Work Activity 4)
  - D. Qualification and Accreditation (Key Work Activity 5)
  - E. Obligations of Capacity Resources (Key Work Activity 6)

# Reliability KWA 2

- **Reliability target metrics**
  - **LOLE: loss of load expectation**
  - **EUE: unserved energy**
- **Expected performance of resources**
  - **EFORd: forced outage rate**
  - **EAF: equivalent availability factor (1 – all outage rates)**
- **Realistic/implementable**
  - **Correlations**
  - **Resource classes/fuel sources**
  - **Hourly**
  - **Historical data**

# Procurement KWA 3

- **Meet reliability standards**
  - **Hourly**
- **Account for actual characteristics of resources**
  - **Hourly availability**
  - **Locational/nodal availability**



# Performance Assessment KWA 4

- **Performance obligation is continuous**
- **Must perform when committed/dispatched**
- **PAI not relevant**



# Accreditation KWA 5

- **Physical assets**
- **Homogeneous product**
- **ELCC (effective load carrying capability)**
  - **Intermittent**
  - **Storage**
  - **Thermal**
- **CLRs (capacity interconnection rights)**
- **Firm fuel**
- **Testing**

# Obligations KWA 6

- **All capacity resources have the same obligations**
- **The obligations of capacity resources:**
  - **Deliverable energy at ICAP**
  - **Must offer in capacity market**
  - **Must offer in energy market (ICAP)**
  - **Outages must be reported**
  - **Energy from capacity resources is recallable in an emergency**



**Monitoring Analytics, LLC**

**2621 Van Buren Avenue**

**Suite 160**

**Eagleville, PA**

**19403**

**(610) 271-8050**

**[MA@monitoringanalytics.com](mailto:MA@monitoringanalytics.com)**

**[www.MonitoringAnalytics.com](http://www.MonitoringAnalytics.com)**

