

RASTF Key Work Activities Overview

RASTF

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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**

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