BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-22
DOCKET NO. UG-22

EXH. HLR-5

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REPRESENTING AVISTA CORPORATION
Figure No. 2 – Jade Cohort Flowchart of Idealized Comprehensive Electricity Planning Process

Jade Cohort Flowchart of Idealized Comprehensive Electricity Planning Process

- Develop Guidance or Rules for the Whole Process
- Define Proper Stakeholder Engagement Opportunities, Designate Ultimate Decision Maker
- Define and Use Consistent Metrics
- Coordinates Feeding into Types of Projections
  - Time horizons
  - Levels of granularity for analysis
  - Sub-planning or projects to be analyzed
  - Data sources
  - Scope
  - Access
  - Addressed/Unsupported indicators and recommendations
  - Market prices
  - Recent costs and capabilities

Goals/Objectives
- Examples:
  - Policy priorities
  - Reliability
  - Economic
  - Implied goals
  - Overall approach to grid management
  - Other

DER Forecast
- Annual (including wholestate):
  - OG
  - Stand-alone
  - EV
  - Electrification

Load Forecast
- Merging data sets
- Load demand growth
- Distribution is sufficiently long
- Sufficient transmission
- Reflects loads, TVR, electrification, EV, etc.

Hosting Capacity Analysis (HCA) / System Assessment (current state)
- Identify use cases
- Identify what type of HCA should be done

Grid Needs + Locational Value Assessment
- Considerations:
  - Non-Wires, Rate Design, 3rd Party Proposals, etc.

Screen / Evaluate Possible Solutions
- Achieves policy goals?
- Least cost, reliable, environment
- Ratepayer impacts
- Independent technical review
- Other

Choose Solutions and Publish Plan
- Program / Project Design, including construction and procurement, if needed

Coordinate distribution system planning with grid mod planning as needed
- Grid modernization may be undertaken as a separate process from DSP
- Grid modernization investments may be captured and reviewed in separate docket from DSP

Link to Cost Recovery
- PBR Option
- Implement Solutions

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Next Planning Cycle

SEO/PUC/RTDs/Utilities/Other Stakeholders

Projected Policy Impact

Key
- Planning Categories:
  - Establish Assumptions
  - Develop Forecasts
  - Develop Objectives/Scenarios
  - System Needs
  - Identify Solutions
  - Evaluate Solutions
  - Finalize Plan
  - Implement

- Process Steps:
  - Distribution System Planning/Develop Forecasts
  - Public Policy
  - Stakeholder Engagement

Acronyms
- DER: Distributed Energy Resources
- DG: Distributed Generation
- DR: Demand Response
- DSP: Distribution System Planning
- EE: Energy Efficiency
- EV: Electric Vehicles
- HCA: Hosting Capacity Analysis
- ISO: Independent System Operator
- PBR: Performance-based Ratemaking
- RTD: Regional Transmission Organization
- SEO: State Energy Office
- TVR: Time-varying Rates

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Figure No. 3 – Turquoise Cohort Flowchart of Idealized Comprehensive Electricity Planning Process

Turquoise Cohort Flowchart of Idealized Comprehensive Electricity Planning Process

[Diagram showing the flowchart of the planning process, including steps such as guidance document, futures, forecasts, system needs, utility proposes solutions, market RFP, optimization, preliminary plan, and plan with implementation and contracting.]