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CATEGORY: WindowsPower (Power Plans & Energy Settings)

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Power-management operations directly affect system performance, battery life, thermal behavior, server efficiency, compliance, and workload stability. These SOPs ensure every power-related action performed through RDAM Script Wizard is **controlled**, **auditable**, and aligned with enterprise operational and energy-efficiency standards.

SOP 1 – List Power Plans

1. Purpose

Retrieve all available Windows power plans and their GUIDs.

2. Scope

- **Windows servers and workstations**
- **All built-in and custom power plans**

3. Preconditions

- **Operator must have permission to query system power configuration**

4. Required Inputs

- **None**

5. Procedure Steps

- **Power Plan Enumeration** – Retrieve all power schemes.
- **Attribute Extraction** – Name, GUID, active/inactive state.
- **Output Formatting** – Structured plan list.
- **Logging** – Operator and timestamp.

6. Expected Output

- **List of power plans with metadata**

7. Error Handling

- **Access denied**
- **Power subsystem unavailable**

8. Security Considerations

- **None beyond standard configuration access**

9. Audit Logging Requirements

- **Operator ID**
- **Timestamp**

10. Organizational Benefit Statement

This procedure provides visibility into system power configurations, supporting performance tuning, compliance, and operational planning.

SOP 2 – Get Active Power Plan

1. Purpose

Identify which power plan is currently active.

2. Scope

- **Windows servers and workstations**

3. Preconditions

- **Operator must have permission to query power settings**

4. Required Inputs

- **None**

5. Procedure Steps

- **Active Plan Query** – Retrieve active power scheme GUID.
- **Metadata Extraction** – Resolve plan name and attributes.
- **Output Formatting**

- **Logging**

6. Expected Output

- **Active power plan details**

7. Error Handling

- **Access denied**
- **Power subsystem failure**

8. Security Considerations

- **None**

9. Audit Logging Requirements

- **Operator ID**
- **Timestamp**

10. Organizational Benefit Statement

This procedure ensures administrators can quickly confirm system performance posture, supporting diagnostics and policy compliance.

SOP 3 – Set Active Power Plan

1. Purpose

Switch the system to a specified power plan.

2. Scope

- **Windows servers and workstations**

3. Preconditions

- **Operator must have administrative rights**
- **Target plan must exist**

4. Required Inputs

- **Power plan GUID or name**

5. Procedure Steps

- **Input Collection**

- **Plan Resolution**
- **Activation Operation** – Set the specified plan as active.
- **Post-Activation Verification**
- **Logging**

6. Expected Output

- **Power plan successfully activated**

7. Error Handling

- **Plan not found**
- **Access denied**

8. Security Considerations

- **Changing plans may affect performance or battery life**

9. Audit Logging Requirements

- **Operator ID**
- **Plan identifier**
- **Timestamp**

10. Organizational Benefit Statement

This procedure ensures power-plan changes are applied consistently and safely, supporting performance optimization and energy-efficiency goals.

SOP 4 – Export Power Plan

1. Purpose

Export a power plan to a file for backup, replication, or compliance.

2. Scope

- **Windows servers and workstations**

3. Preconditions

- **Operator must have administrative rights**
- **Export path must be valid**

4. Required Inputs

- **Power plan GUID**
- **Export file path**

5. Procedure Steps

- **Input Collection**
- **Plan Resolution**
- **Export Operation**
- **Post-Export Verification**
- **Logging**

6. Expected Output

- **Power plan exported successfully**

7. Error Handling

- **Invalid path**
- **Access denied**

8. Security Considerations

- **Exported plans may contain configuration sensitive to compliance**

9. Audit Logging Requirements

- **Operator ID**
- **Plan GUID**
- **Export path**
- **Timestamp**

10. Organizational Benefit Statement

This procedure ensures power-plan configurations can be backed up or replicated reliably, supporting standardization and disaster recovery.

SOP 5 – Import Power Plan

1. Purpose

Import a power plan from a file.

2. Scope

- **Windows servers and workstations**

3. Preconditions

- **Operator must have administrative rights**
- **Import file must exist**

4. Required Inputs

- **Import file path**

5. Procedure Steps

- **Input Collection**
- **File Validation**
- **Import Operation**
- **Post-Import Verification**
- **Logging**

6. Expected Output

- **Power plan imported successfully**

7. Error Handling

- **Invalid file**
- **Access denied**

8. Security Considerations

- **Imported plans may override performance or security settings**

9. Audit Logging Requirements

- **Operator ID**
- **Import path**

- **Timestamp**

10. Organizational Benefit Statement

This procedure ensures power-plan configurations can be deployed consistently across systems, supporting standardization and compliance.

SOP 6 – Adjust Display & Sleep Timers

1. Purpose

Modify display timeout and sleep settings for system or user scope.

2. Scope

- **Windows servers and workstations**
- **AC and battery modes**

3. Preconditions

- **Operator must have administrative rights for system-level changes**

4. Required Inputs

- **Timeout values (display/sleep)**
- **Power mode (AC/Battery)**

5. Procedure Steps

- **Input Collection**
- **Validation** – Ensure values are within acceptable ranges.
- **Configuration Update**
- **Post-Update Verification**
- **Logging**

6. Expected Output

- **Updated display and sleep settings**

7. Error Handling

- **Invalid timeout values**
- **Access denied**

8. Security Considerations

- **Aggressive sleep settings may disrupt workloads**

9. Audit Logging Requirements

- **Operator ID**
- **Timeout values**
- **Timestamp**

10. Organizational Benefit Statement

This procedure ensures energy-efficiency and performance settings are applied consistently, supporting compliance and operational optimization.