



# Outage Coordination for PUN Resource Planned Outages

Chris Azeredo, Shun Hsien (Fred) Huang

Operations Support

ROS Meeting  
July 11, 2024

# Takeaways

- PUN registration is used to determine eligibility for net metering under the requirements approved in NPRR 945; however, the increase in the number of registered PUNs has created issues with Outage Coordination.
- This presentation provides ERCOT's proposed solution to address the Outage Coordination issues without impacting availability of net metering.

# Background

- Private Use Network (PUN)
  - ERCOT Protocol definition: “an electric network connected to the ERCOT Transmission Grid that contains Load that is not directly metered by ERCOT (i.e., Load that is typically netted with internal generation).”
- Industrial generation facilities (IGF)
  - Public Utility Regulatory Act (PURA) § 39.151(I): “No operational criteria, protocols, or other requirement established by an independent organization, including the ERCOT independent system operator, may adversely affect or impede any manufacturing or other internal process operation associated with an industrial generation facility, except to the minimum extent necessary to assure reliability of the transmission network.”
- Per ERCOT Protocol Section 3.1.6(7), IGF Resource Planned Outage requests are not subject to the maximum daily resource planned outage capacity (MDRPOC).

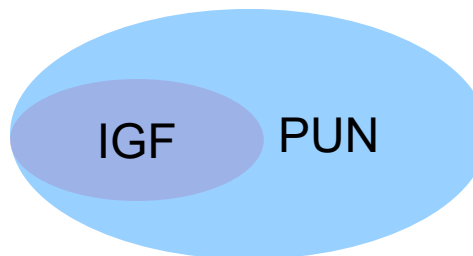
# Impact of NPPRR 945 Net Metering Requirements

- ERCOT has historically relied on PUN registration to determine eligibility for net metering and also as a proxy for IGF status under Protocol 3.1.6(7)
- The increase in registered PUNs has created challenges with Outage Coordination because it reduces the number of Generation Resources subject to MDRPOC
- With the numbers of PUNs expected to continue growing, Outage Coordination needs a better way to recognize non-IGF PUNs

Prior to NPPRR 945



After NPPRR 945



# Mitigation Option

- Implement a new enumeration type, “Netted Network”, in the ERCOT model applications.
  - No impact to Resource Entities
  - No impact to current registration processes and requirements
  - Minimum impact to the ERCOT systems

	Registration (External)	Attribute/Model (ERCOT Internal)		Comment
		IGF	Non-IGF	
Current Process	PUN	PUN	PUN	<ul style="list-style-type: none"> <li>• Does not allow identification of PUNs that are not IGF and should be subjected to MDPROC</li> </ul>
Mitigation Option	PUN	PUN	<b>Netted Network</b>	<ul style="list-style-type: none"> <li>• Netted Network type would be used for non-IGF PUNs</li> <li>• Is only for ERCOT internal use, no impact to ERCOT stakeholders and resource entities</li> </ul>

# Next Steps

- ERCOT plans to start testing code changes and provide an implementation plan in Q4 2024.
- ERCOT will issue a RFI for the existing PUNs to identify IGFs. ERCOT will also develop a process to identify new PUNs that wish to claim an exemption from MDRPOC to substantiate the PUN's IGF.
- ERCOT will issue a Market Notice before implementation and can provide a status update to ROS if needed.