



Building a
B R I G H T E R F U T U R E

PJM LAS Large Load Adjustment Presentation

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FirstEnergy®

Large Load Adjustment Process

Inputs & Sources



Economic Development works through leads on potential new customer growth opportunities in service territory



Customer Accounts team works with customers to plan for new or changing future load expectations



Planning & Protection begins detailed load study process with signed agreements. Customer provides preliminary forecast



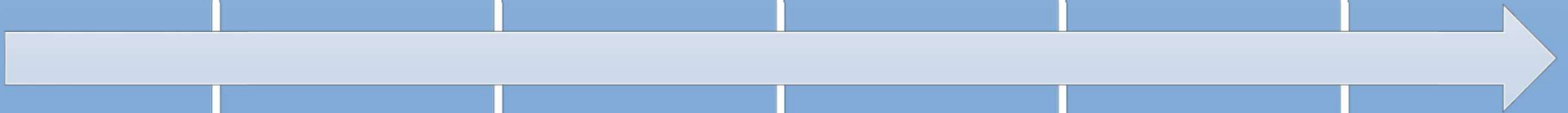
Planning & Protection group vets potential load impacts. Determines if economics or other variables may be picking up the change



Load impacts materialize as customer growth comes online or customer plans change from initial expectation



Monitor impacts on actuals and determines if future forecast adjustments are still needed



FirstEnergy Large Load Adjustment

- **Large Customer interconnection requests are an independent addition to the forecast**
 - These become PJM Large Load Adjustments (LLA)
 - Projects with multiple phases are counted as one project in the totals
- **FirstEnergy uses a scoring system to reduce subjectivity of including in the forecast**
 - Based on a series of questions describing where in process project is
 - Score greater than or equal to 5 is included in PJM LLA submittal
 - Several questions added this year in order to be more granular
- **PJM Requires submission of Capacity/Demand & Supporting Criteria**
- **Cutoff for submittal is 50 MW or greater**
- **Utilization Factors are used for Demand MW**
 - Data Center Utilization Factor aligned with PJM at 0.7
- **Total FE Growth Contract & Pipeline through 2035 is ~22 GW (Capacity)**
 - Areas of largest growth are ATSI & APS (~8 GW & ~10 GW capacity through 2035)
 - This does not include ~2 GW of contracted and active load
- **Total FE study requested was 102 GW**

Utilization Factors	
Load Type	Utilization Factor
Cryptocurrency Data Center	0.7
Data Center	0.7
Hyperscaler Data Center	0.7
Industrial or Manufacturing	0.7
Multi-tenant Data Center	0.7

Forecast Score Criteria Questions

- Several new questions this year
- Attempting to drive the score for a project to accurately reflect the likeliness that a project will come to fruition
- DLS Process changed from a one-step process to a two-step process, so questions were broken out to account for both scenarios
- Added a question about providing collateral & engineering agreement

Forecast Score Questions

Question	Score
Is Customer still considering non-FE locations for this project? Are we in competition with other utilities?	-1
Does Customer own or control the land?	1
Does Customer have ALL necessary building permits? This includes environmental permits.	2
Does Customer have a development plan? This is a detailed, professional, realistic site plan.	2
Does Customer have tenants or raw materials secured?	5
Has the Customer publicly announced their project?	1
Has the Customer begun construction? Includes site clearing and grading.	3
Does the Customer have headwinds that would stop construction? For example, a lawsuit or community opposition.	-1
Is the CLS finished?	1
Is the DLS Issued (Single Step Studies)?	2
Is the DLS Step 1 Report Issued (Two Step Studies)?	1
Has the Customer provided Collateral to advance Step 2 (Two Step Studies)?	1
Is the DLS Step 2 Report Issued (Two Step Studies)?	1
Has the Customer Signed an Engineering Agreement ahead of a CSA or LEA?	1
Has the Customer signed an interconnection, construction, or line extension agreement with FE?	5
Has the customer signed an Electric Service Agreement (ESA)?	5

Ramp Rate Methodology

■ Under 300 MW

- Ramp only applied if a ramp given by the customer.
- Ramp applied if multiple phases.
- Otherwise, no ramp is applied.

■ 300 MW or above

- If ramp is given by customer, it is applied. Ramp is applied between dates by ramping by month evenly between the dates given. Initial value is set to 100 MW for the initial project In-service date. The first ramp is set at the initial in-service date and if only the year is given for the next ramp (no month and day), then it is assumed that next ramp is the same month and day as the initial in-service date.
- If no ramp is given by the customer, 36-month ramp is applied starting at 100 MW at the initial in-service date with remaining total MW divided over 36 months.

■ PJM methodology is to use a 36-month ramp if the Load Serving Entity (LSE) does not give a ramp

2026 Summer Peak MW



- 195 MW ATSI zone summer peak
- 35 MW APS zone summer peak

Note: most of our Large Load customers are still coming online and ramping up. Existing LLA customers are only in APS and ATSI zones.

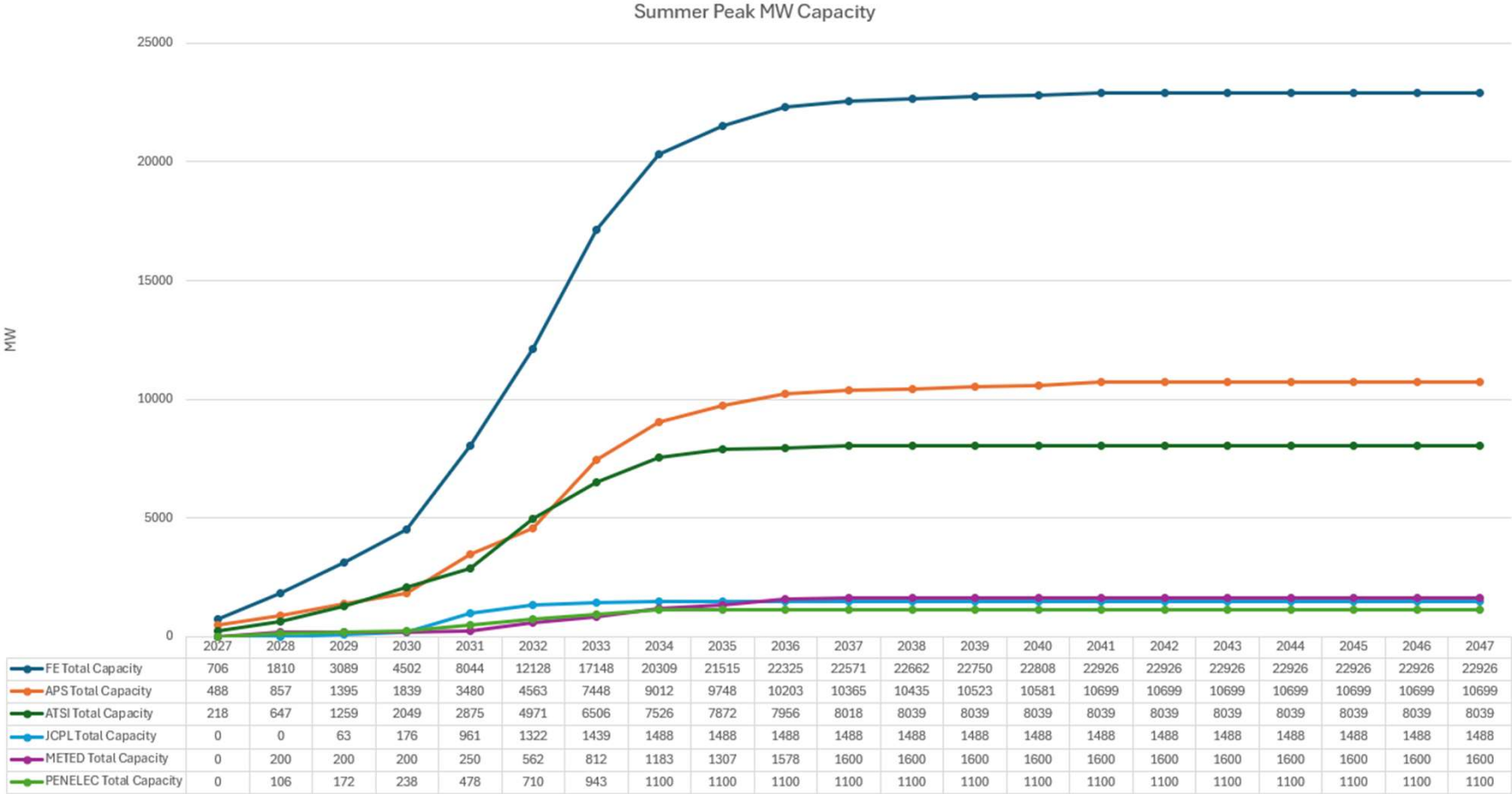
There is not enough history for these new customers to determine any trends

RERRA Process and Conclusions

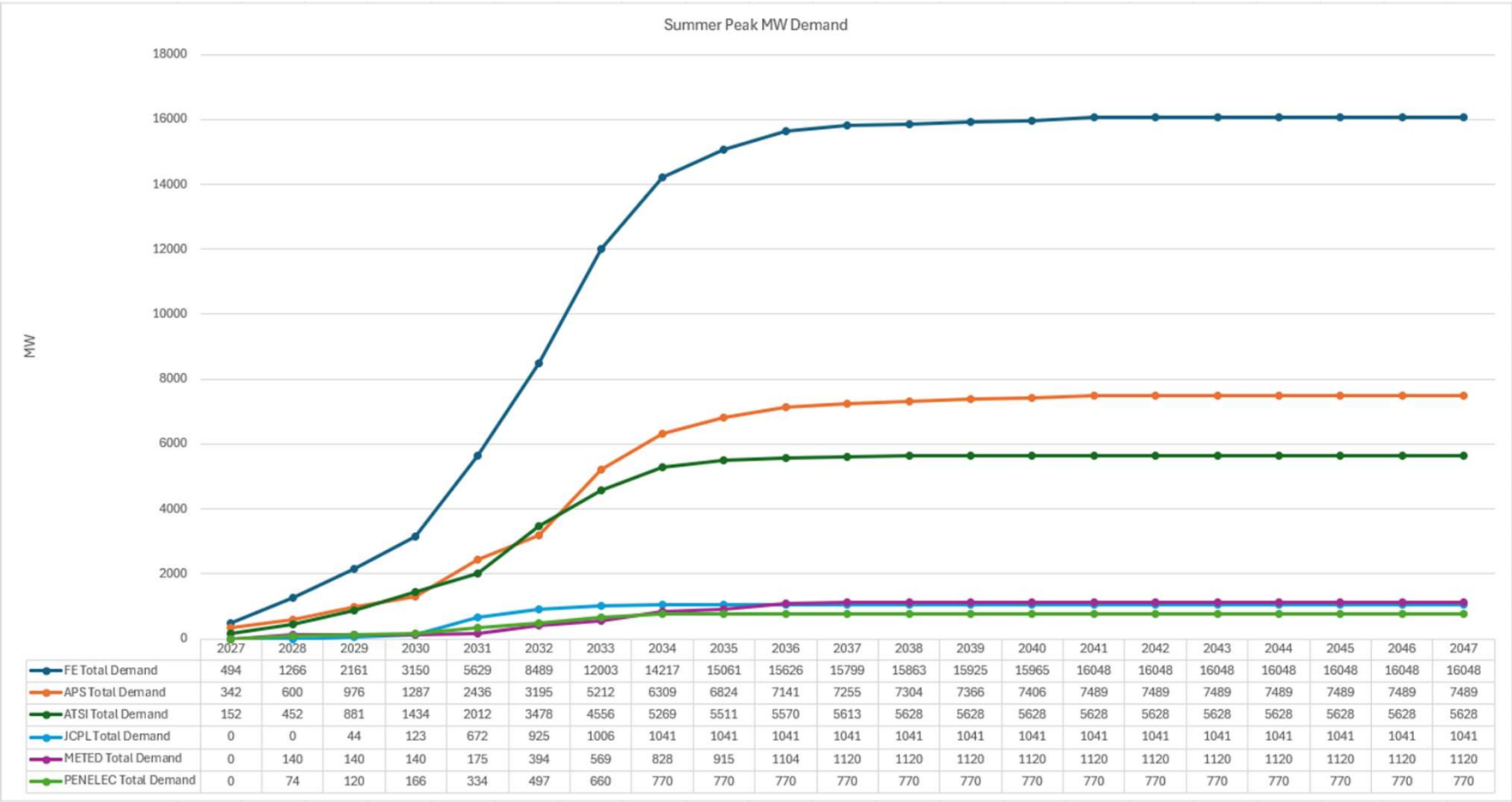
- Met with MD, NJ, OH, PA, WV
- Feedback only received from Maryland, Ohio, and Pennsylvania

Schedule		
7/27/2026	Meeting with PA PUC	PA
9/2/2026	Meeting with NJ BPU	NJ
7/21/2026	Meeting with MD PSC	MD
8/26/2026	Meeting with OH PUCO	OH
8/13/2026	Meeting with WV PSC	WV

Summer Peak MW Capacity



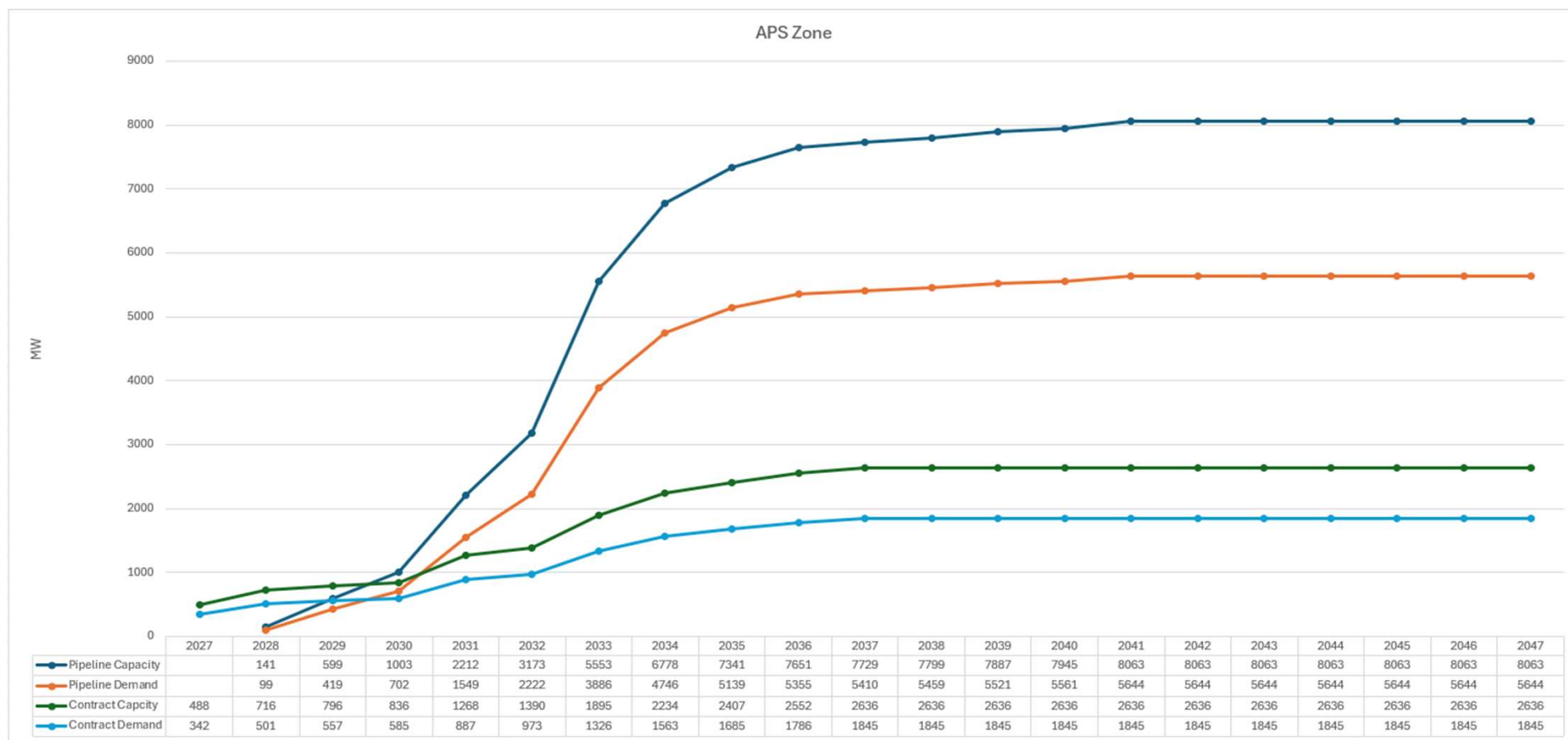
Summer Peak MW Demand



APS Projects

- **19 projects are included for this year's submittal for a total of ~10,700 MW**
 - 5 projects have multiple phases
- **Two customers from 2025 cancelled or withdrawn**
 - 400 MW removed
- **Four customers from 2025 connected**
 - 690 MW connected
- **MON_POWER:**
4 pipeline projects – 1,693 MW
- **PE:**
8 pipeline projects – 4,670 MW
6 under contract projects – 2,496 MW
- **WPP:**
4 pipeline projects – 1,700 MW
2 under contract projects – 140 MW

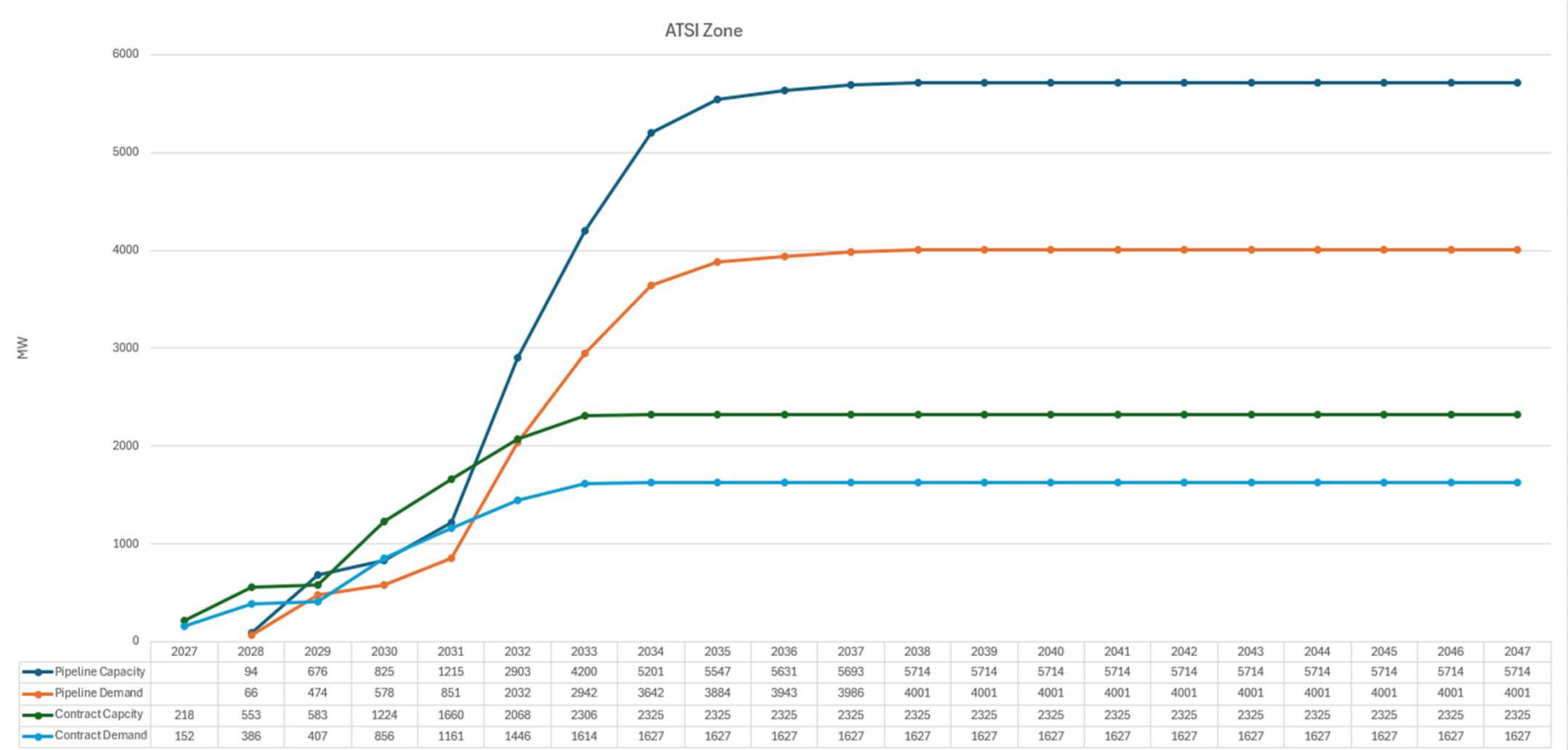
APS MON_POWER, PE, and WPP Zone-Areas



ATSI Projects

- **22 projects are included for this year's submittal for ~ 8,000 MW**
 - 11 projects have multiple phases
- **One customers from 2025 cancelled or withdrawn**
 - 60 MW removed
- **Four customers from 2025 connected**
 - 560 MW connected
- **CEI:**
 - 4 pipeline projects – 1,020 MW**
- **OE:**
 - 11 pipeline projects – 3,844 MW**
 - 9 under contract projects – 1,628 MW**
- **PP:**
 - 2 under contract projects – 577 MW**
- **TE:**
 - 5 pipeline projects – 850 MW**
 - 2 under contract projects – 120 MW**

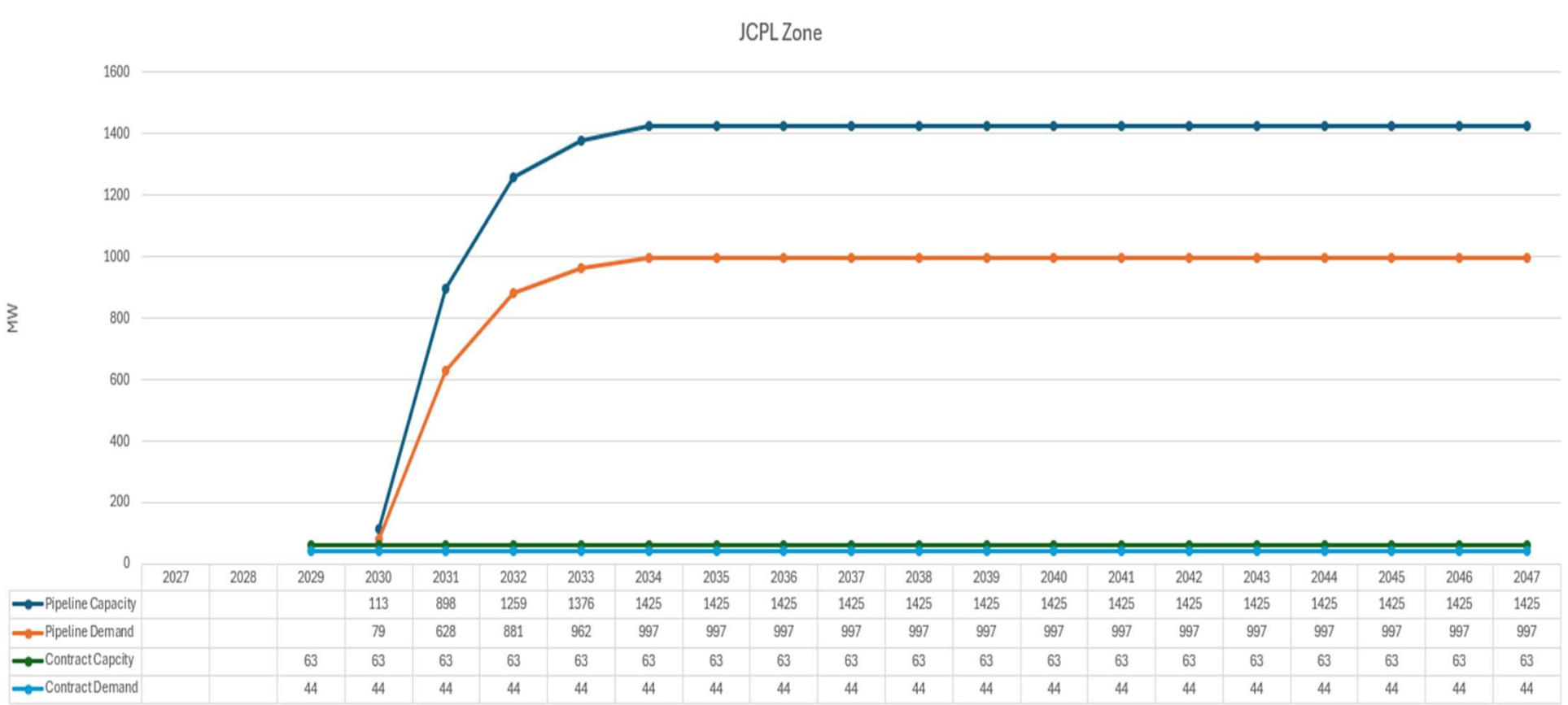
ATSI OHIO, PP Zone-Areas



JCPL Projects

- **9 projects are included for this year's submittal for ~1,500 MW**
- **One customer from 2025 cancelled or withdrawn**
 - 70 MW removed
- **JCPL:**
 - 8 pipeline projects – 1,425 MW**
 - 1 under contract project – 63 MW**

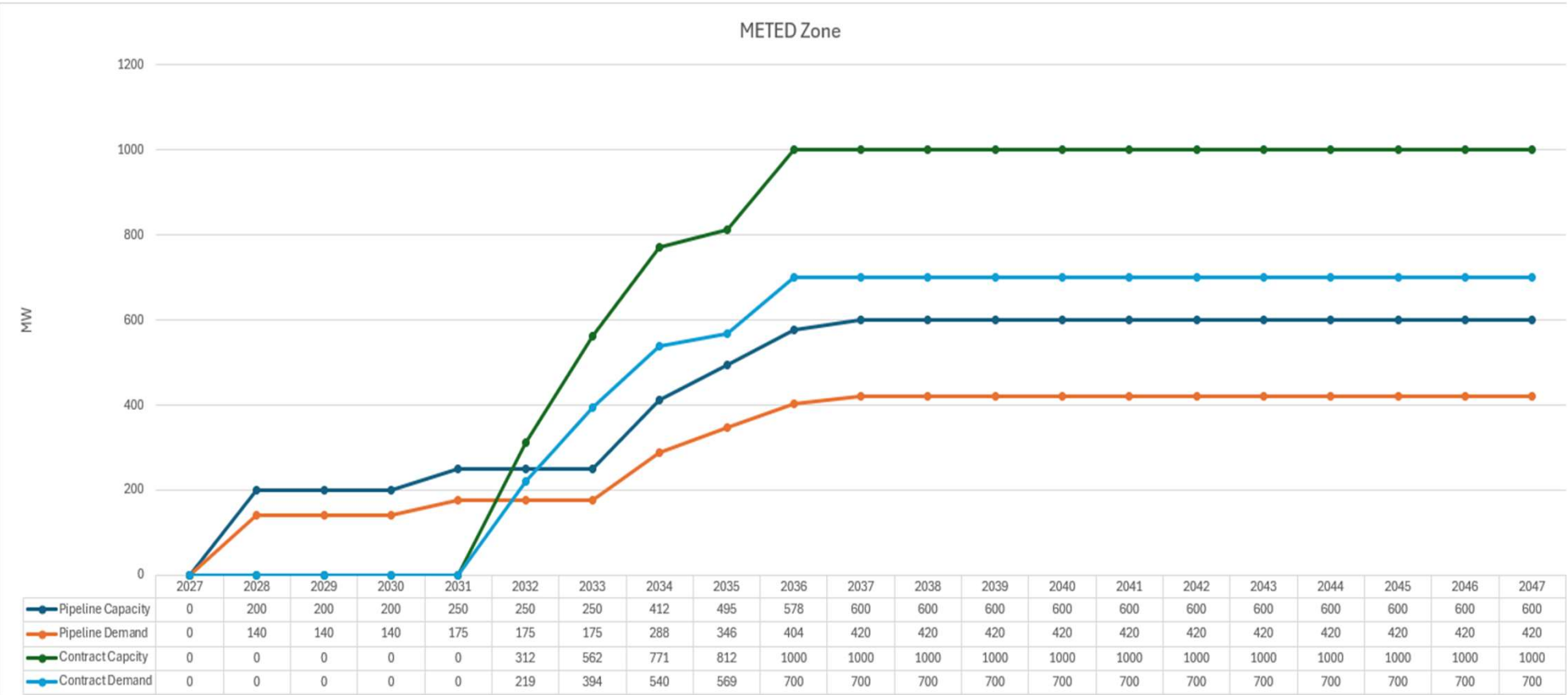
JCPL Zone-Area



METED Projects

- **2 projects are included for this year's submittal for 1,600 MW**
 - 1 projects has multiple phases
- **METED:**
 - 3 pipeline projects – 600 MW**
 - 1 under contract project – 1,000 MW**

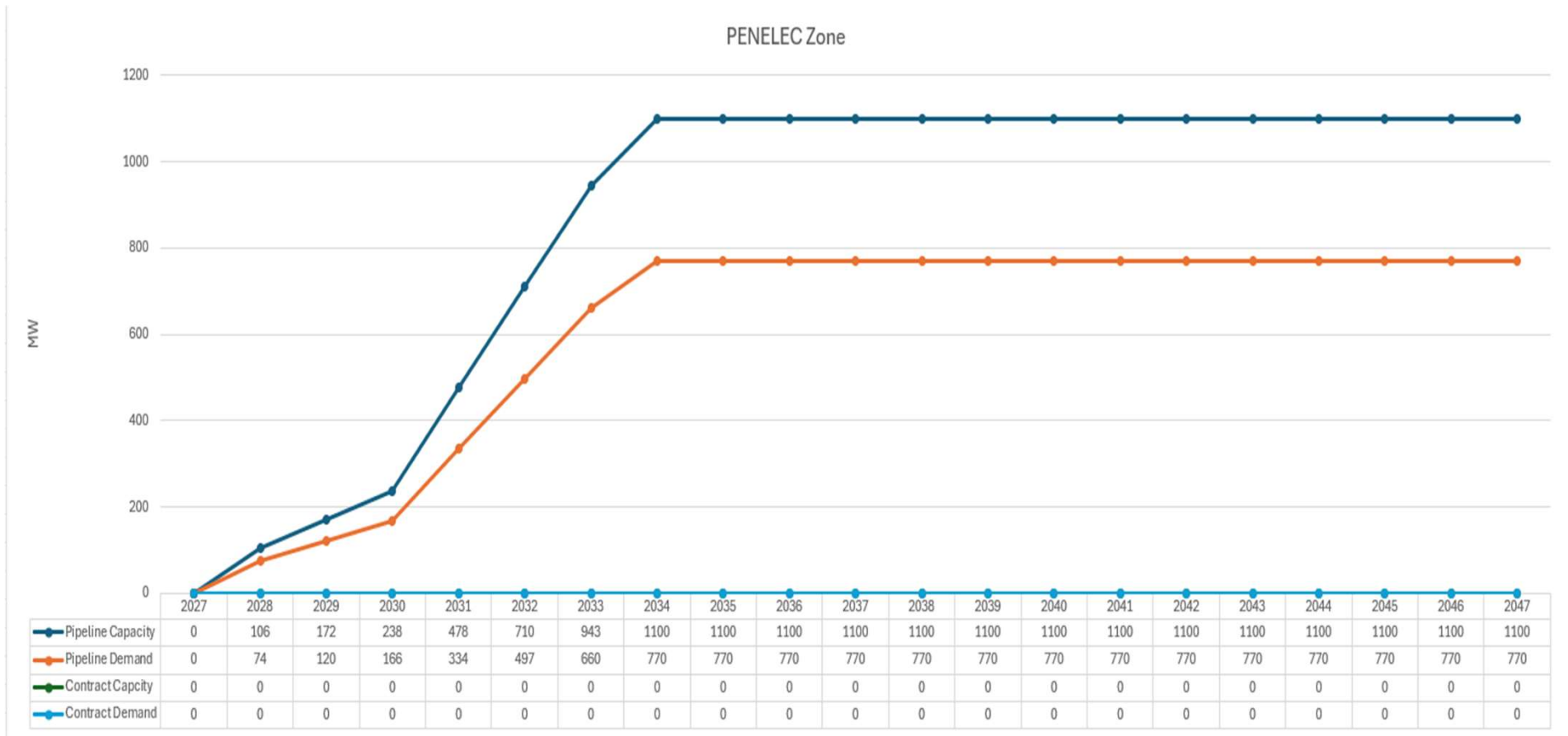
METED Zone-Area



PENELEC Projects

- **1 project is included for this year's submittal for 1,100 MW**
 - This project has multiple phases
- **PENELEC:**
 - 2 pipeline projects – 1,100 MW**

PENELEC Zone-Area



Questions?

