

Monthly Stakeholder Update Utilities Master Plan

February 28, 2023



DIVISION OF CAMPUS PLANNING,
INFRASTRUCTURE, AND FACILITIES
VIRGINIA TECH

Utilities Master Plan Stakeholder Meeting

February 28, 2023 Update



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PREVIOUS ACTION ITEMS

- 1 Status
- 2 Current Tasks
- 3 Upcoming Tasks
- 4 Schedule
- 5 Action Items

- Workshop No.1 summarized and posted
- Project schedule updates
- Website content updated - dynamic site
- Workshops to be scheduled
- Stakeholder Zoom Meeting - Feb 28th at 10 AM
- Ongoing field investigation and data collection
- Schedule Phase 2: Planning and CAC meetings

STATUS

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Phase 1: Assess existing utility systems to meet current levels of services

- Engage utilities to capture and compile existing data
- Field investigate critical features and attributes
- Evaluate risk for current operations
- Identify operational/maintenance/capital options
- Existing conditions report for review

PROJECT SCHEDULE



UMP Project Schedule	Q1 '23			Q2 '23			Q3 '23			Q4 '23			Q1 '24			Q2 '24			Q3 '24		
Phase 1: Kickoff and Data Gathering	[1]		[2]	[2]																	
Phase 2: Existing Conditions Assessment								[3]													
Phase 3: Analysis & Future State Projections						[4]				[5]	[5]	[5]									
Phase 4: Utility Master Planning Process											[6]	[6]		[7]		[8]					[9]

PROGRESS DASHBOARD



Phase 1: Kickoff and Data Gathering

UMP Progress Dashboad	Kick Off	System/Ops Data			Field Investigation		Condition Assesment		Capacity Assesment		Existing Conditions Report	
Thermal Generation	100%	<div></div> 49%	19	<div></div> 17%	6	0%	43	0%	1	0%	1	
Steam and Condensate Return	100%	<div></div> 33%	3	0%	6	0%	185	0%	1	0%	1	
Chilled Water Distribution	100%	<div></div> 33%	3	0%	6	0%	293	0%	1	0%	1	
Domestic Hot Water	100%	<div></div> 100%	1	0%	1	0%	7.4	0%	1	0%	1	
Electrical Distribution	100%	<div></div> 30%	10	<div></div> 20%	25	<div></div> 33%	825	0%	1	0%	1	
Telecom OSP	100%	<div></div> 50%	2	0%	20	0%	197	0%	1	0%	1	
Potable and Fire Protection	100%	<div></div> 25%	4	<div></div> 4%	24	0%	45	0%	1	0%	1	
Sanitary Sewer	100%	0%	3	<div></div> 4%	24	0%	160	0%	1	0%	1	
Stormwater	100%	<div></div> 33%	3	<div></div> 4%	24	0%	642	0%	1	0%	1	

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FIELD INVESTIGATION SCHEDULE

March 2023

	M	T	W	T	F
Week 1					
Week 2					
Week 3					
Week 4					
Week 5					

Utility Color Key

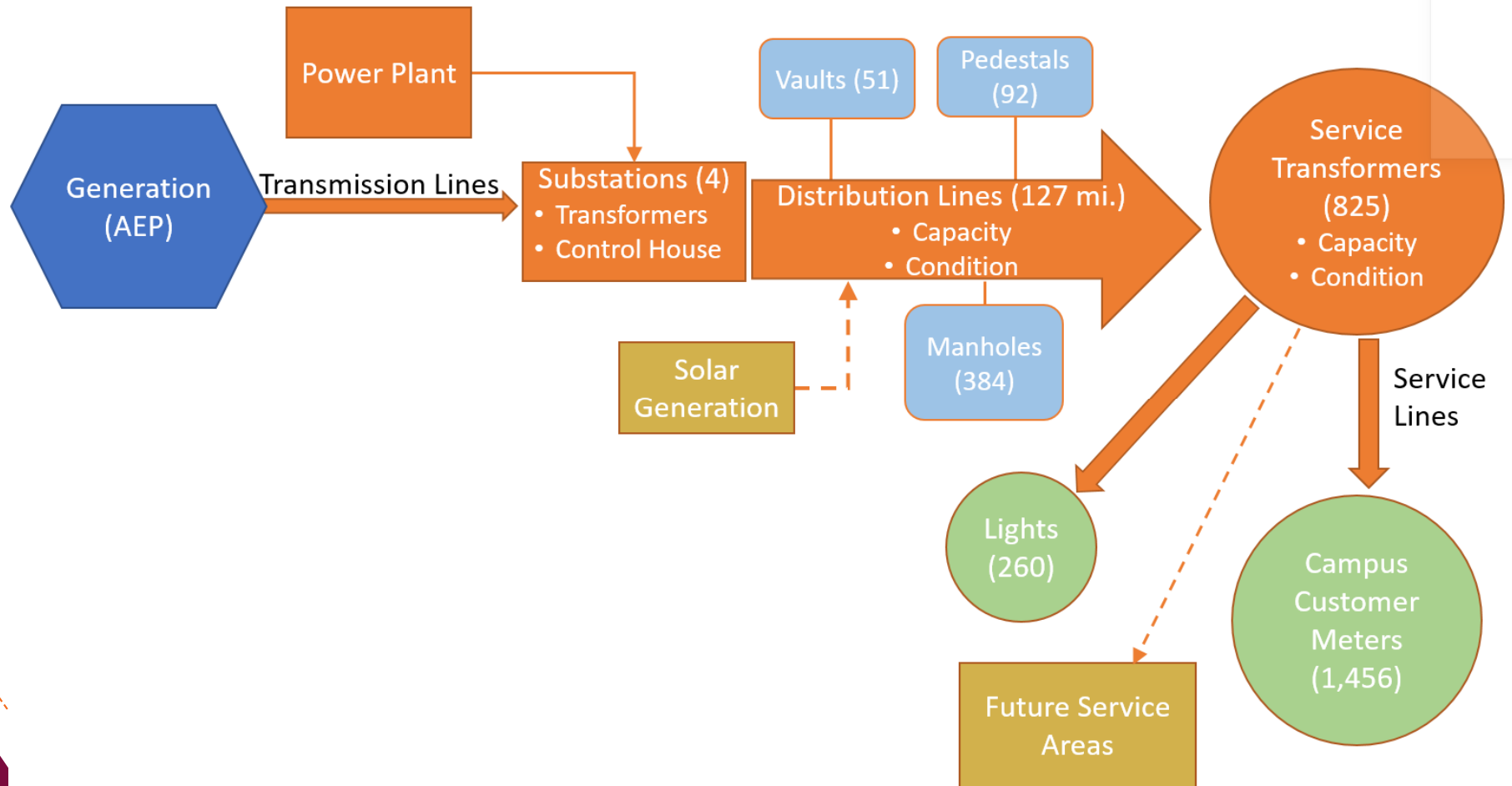
Thermal Generation

Thermal Distribution

Civil

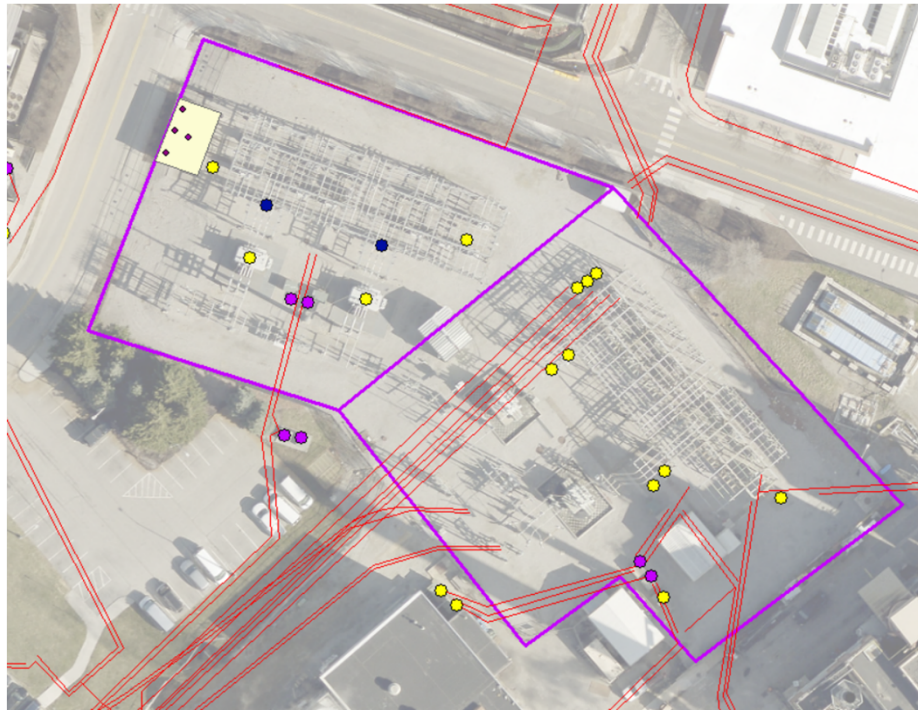
Telecom OSP

Electrical Distribution



GIS: VTES Substation

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Utilities Master Plan



UTILITY MASTER PLAN AT VTES NEXT 2-3 WEEKS

- Team worked at the Power Plant last week
- Comprehensive asset inventory
- Cataloging equipment nameplates and attributes
- Capacity and Condition assessments
- Join Monthly Stakeholder Update Via Zoom next Tuesday, 10 AM



CHECK OUT PROGRESS ON WEBSITE:

<https://www.facilities.vt.edu/planning-documents/utilities-master-plan.html>

UPCOMING TASKS

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ACTION ITEMS

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- Next monthly stakeholder meeting: March 28, 2023 at 10 AM