

**PARTNERSHIPS
& PLANNING**

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Course Description

While departments plan their work regularly and execute them on the planned timelines on a daily basis, due to the scope and costs of utility operations, the leadership needs to engage in a master planning exercise every 5-10 years. This allows the department an opportunity to take a holistic view of all production, distribution, capacity, system improvements etc. During this exercise an attempt is made to align the utility master plan with campus master plan with new building construction or demolition plans. This course will discuss the aspects of the operations that are explored during the utility master planning process.

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Learning Objectives

- Recap the kickoff session – EU Partnerships
- Utility Master Planning (UMP) – Why it is essential?
- Align UMP with Campus Master Plan (CMP)
- Develop partnerships to create an effective UMP


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A week's stay in E&U

- Set the stage
- Basic definitions
- Build the framework
- Understand the necessity of E&U as a core of facilities management
- Prepare for takeaways
- Make a list of questions to take home
- Provide insights into synergies and potential alliances




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Table Discussion



Interesting take
aways?




Questions?



Surprises?


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UTILITY MASTER PLANNING (UMP)

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APPA Body of Knowledge (BoK)



<https://www.appa.org/resources/bok/>

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Topics covered



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Why UMP is essential

“Regardless of the breadth of campus utility master planning, the process will identify:

- When specific utility services are required
- What strategies to use to meet those needs
- How much it will cost to provide the utility services

The master planning process surveys information about the institution’s utility systems and its service needs, organizes the information, documents conditions, develops strategies, articulates an action plan, and communicates this information to others.

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Relation of UMP to Campus Master Plan

“Ideally, utility planning is integrated into the fabric of comprehensive campus master planning and financial management strategies. The primary functionality of campus utility systems is dedicated to supporting campus services and programs, and as such should be structured and responsive to those needs and requirements. Sustainability goals must include provision of “adequate” utility services at minimum life-cycle costs.

Indeed, without integration of planning for programmatic physical facilities and business strategies, it will be only coincidental that broad sustainability goals can be achieved — let alone realizing even a simple cost minimization objective for utility services.”



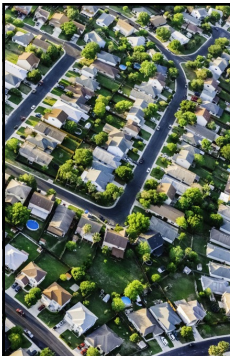
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Why UMP is essential

“A good utility master plan is the institution’s utility road map into the future. The utility master plan can (at a minimum) guide an institution’s capital project investments.

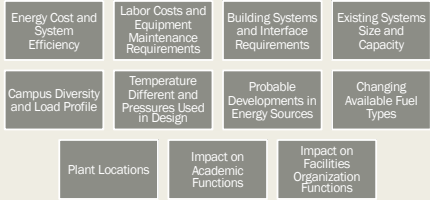
Without that road map, the potential problems ahead may not be recognized, and there is no assurance that efficient solutions will be identified.

More important, however, is that without a plan formulated and vetted through a reliable process, prioritization of funding for and investment in utility infrastructure is much less likely to obtain necessary institutional commitment and support.”



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Variables impacting UMP

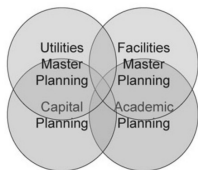


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TABLE DISCUSSION

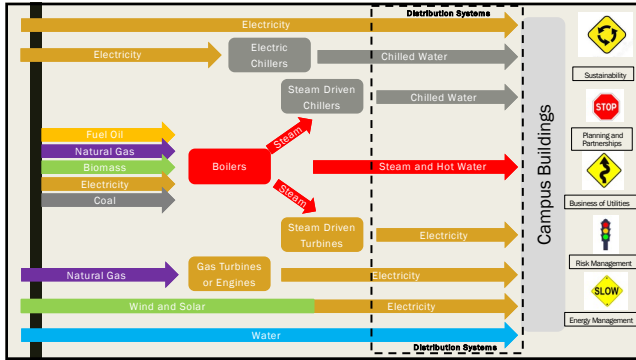
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The Intersection of Master Planning



TASK:
CREATE YOUR OWN GRAPHIC TO REPRESENT THE INPUT, STAKEHOLDERS AND IMPACTS OF UTILITY MASTER PLANNING


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This concludes The American Institute of Architects Continuing Education Systems Course

Select an area to comment on



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