

Perspectives on P3 from years of advisory experience on both sides of the fence

Mark Spurr and James Bohn FVB Energy Inc.







Agenda

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- What is P3?
- Drivers
- Pros and Cons
- Overview of recent deals
- Uncertainties
- Negotiating the deal
- Advice for institutions
- Advice for private players







Background

FVB brings a unique perspective from extensive district energy P3 experience on "both sides of the fence"

- Canadian government Energy Service Acquisition Project
- Dartmouth University
- Lakeview Community Partners
- Engineering partner for private sector in P3 procurements
- Due diligence consultant for
 - District energy asset sellers (both owners and lenders)
 - District energy asset buyers







What is P3?

- Private sector helps deliver "public" sector projects, services & infrastructure
- Wide range of deal structures

	Design	Construct	Finance & Own	Operate	Maintain
Design-Build (DB)					
Operate-Maintain (OM)					
Design-Build-Operate- Maintain (DBOM)					
Design-Build-Operate- Maintain-Transfer (DBOMT)					
Design-Build-Own-Operate- Transfer (DBOOT)					
Design-Build-Own-Operate- Maintain (DBOOM)					

Legend

Private	
Public or other institution	
Private initially with later transfer to public	

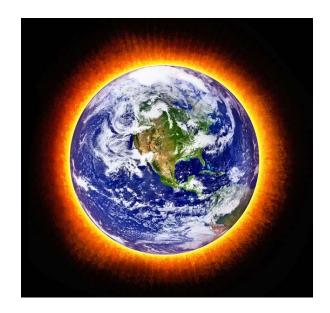






Drivers

Stressed budgets





Climate change





Aging infrastructure



New industry players







Why P3?

Potential benefits, depending on deal structure & circumstances of each party

- Risk transfer
- Monetization of campus utility assets
- Increased cost certainty
- Increased schedule certainty and acceleration









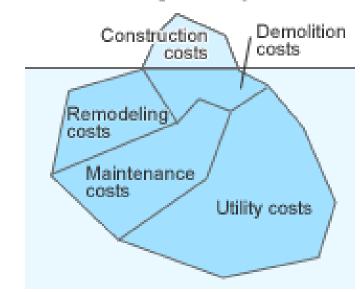


Why P3?

- Lifecycle cost savings, supported by incentives & penalties for performance
- Access to capital including off-balance-sheet \$



 Competition between bidders leading to lower costs and enhanced risk transfer





Access to expertise to facilitate long-term innovation & GHG reductions







Why Not P3?



Complex



Time-consuming

Significant cost to develop, analyze, procure, and monitor

May not provide best value for institution's needs







Overview of recent P3 deals

Institution	Status	Key Aspects	
University of Idaho	Closed	50-year concession; similar to OSU & UI deals; up-front payment of \$225 million.	Sacyr/Plenary
U of Iowa	Closed	50-year concession; similar to OSU deal; up-front payment netting ~ \$1 billion.	ENGIE/Meridiam
Ohio State University	Closed	50-year concession; 50-year lease of land & facilities; up-front payment of \$1 billion plus \$150 million commitment to support academics; OSU has right to review & approve proposed capital projects; partner will fund & implement ECMs; fixed fee, operating fee & variable fee.	ENGIE/Axium
ESAP	Closed	35-year agreement for renewal and O&M of district energy systems serving multiple federal building complexes, including steam to hot water conversion of buildings and distribution systems. \$500 million of construction costs over the first 5 years and initial five years of the agreement and \$2.6 million in energy services during term of agreement.	ENGIE consortium
Duquesne University	Closed	40-year energy services agreement; partner purchased U plant & will use excess capacity to serve other customers; \$100 million upfront payment.	Clearway
Syracuse University	Closed	Renewal and O&M of steam plant.	Enwave
National Western Center	Closed	Construction and long-term O&M of new energy systems for redevelopment area; 40-year agreement; phases 1-2 being constructed but phases 3-8 are on hold.	Enwave/AECOM/ Saunders
MATEP	Closed	Acquisition of DES serving six medical institutions; 33-year agreement for O&M, commodity procurement & asset management.	ENGIE/Axium
University of N. Dakota	Closed	40-year agreement for plant construction and O&M.	Johnson Controls
University of Oklahoma	Closed	40-year utility services agreement for energy, water & wastewater systems.	Corix
Simon Fraser University	Closed	Long-term energy supply agreement with exit options; Corix built, owns and operates a shared energy centre for UniverCity (full service) and SFU campus (baseload green energy only); SFU retains ownership and operation of campus distribution and existing gas-fired boiler plant (peaking and back-up).	Corix





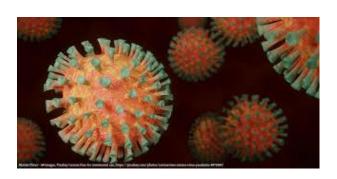


Uncertainties as long-term trends unfold

Changing climate



Higher electric & cooling demands due to increased digital infrastructure



Pandemic impacts



Technology improvements







Negotiating the deal

- Ensure that the partners have a close alignment of needs, capabilities, and corporate values
- Approach as a true partnership
- Make sure risk transfers are clearly articulated
- Build in flexibility
- Establish clear requirements for results
- Set a clear dispute escalation staircase







Advice for institutions

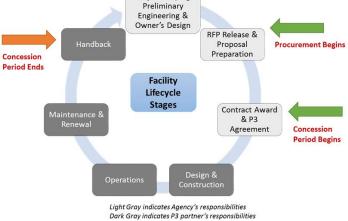
Know what you want

What are your priorities?





- What technical solutions do you want the partner to implement?
- Have you done enough homework?
- What are the implications of near-term infrastructure replacement on future flexibility?
- How do you want to structure the agreement?
- Do you have stakeholder support?









Advice for institutions

If you don't fully know what you want

- Implement internal process to clarify priorities
- Engage external technical, financial & legal advisors
- Campus and community stakeholder consultation
- Interact with the potential partners
- Reduce uncertainties to avoid cost premiums
- Assess tradeoffs of replacement in kind vs low carbon future





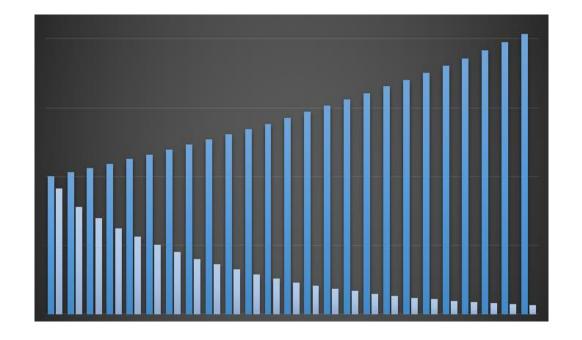






RFQ, RFP, P3 Agreement & Evaluation Process

- External advisors
 - Legal
 - Financial
 - Technical
- Value for Money (VfM) analysis
- Understand your discount rate
- Schedule enough time for iterations of the RFP
- Bid evaluation structure should reflect institutional priorities









Advice for private sector

- Recognize that this is a long process with plenty of frustrations
- Have patience for complex university processes & players
- Be open to unique provisions of importance to the institution
- Seek to understand the "hot buttons" of the key individuals
- Push the institution to provide a clear bid evaluation structure
- Clarify, clarify
- Develop a technically sound & flexible vision for GHG reduction







Final thoughts

- P3s can bring substantial benefits and value to the procurement, delivery, and O&M of institutional infrastructure
- P3s are not for everyone and should be carefully considered
- Complex and time-consuming process
- High transaction costs
- A good P3 will be unique to the needs of the institution







Thank you for your attention!

Questions?

Mark Spurr

Phone: 612-865-5443

Email: mspurr@fvbenergy.com

James Bohn

Phone: 612-978-0517

Email: jbohn@fvbenergy.com





