Water Loss Specialist Groups Webinar Series

Chair Stuart Hamilton Shamilton@hydrotec.co

Secretary Gary Wyeth garywyeth@me.com



the international water association



Privately Financed NRW-PBCs: COVID19 Response



David Ehrhardt

COVID19 Pandemic boosts demand for NRW Reduction

- Ubiquitous clean water supply is the front-line defence:
 - Hand-washing is the cheapest, most widely-available, defence against infection
 - Reliable piped water supply to the premises is a prerequisite for social distancing / self-quarantine strategies
- Infrastructure expenditure stimulus post-pandemic will require projects that:
 - Use mostly local resources
 - Are labor intensive
 - Are widely spread around the country

NRW reduction projects will be demanded (if we spread the word) since they:

- Are often the fastest, most effective ways to improve water supply
- Are labor intensive
- Can be implemented in most towns in most countries.



COVID19 Pandemic reduces finance for NRW Reduction

- Utilities will be even more short of money than usual:
 - Loss of income means that many customers will struggle to pay their utility bills
 - Utilities will not be permitted to disconnect customer's water supply during a pandemic
- Governments will be even less able to finance water projects than usual:
 - Economic downturn means tax receipts will fall
 - Emergency health and social spending will increase
 - Public finance from utilities or governments will be limited.
- Donors will lend more, but this will not be enough

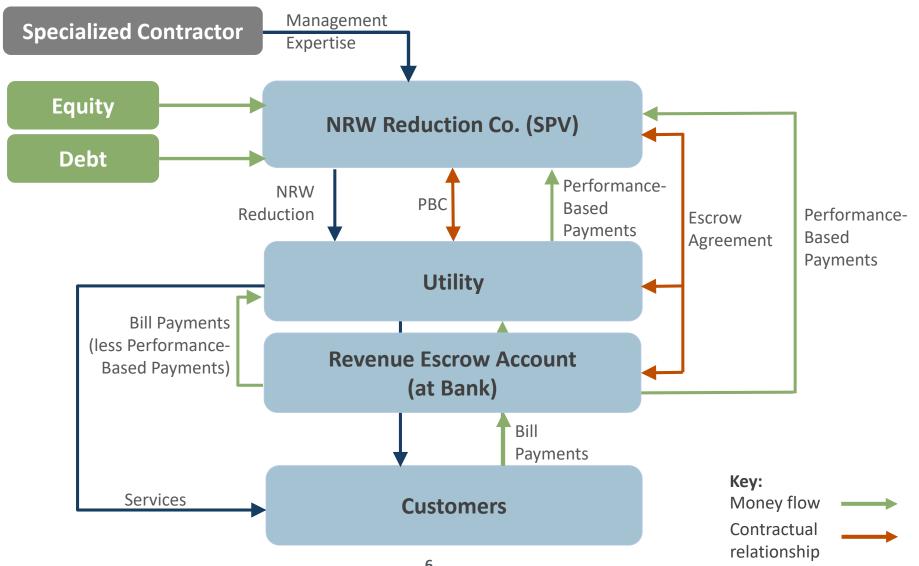


Privately-financed NRW Reduction PBCs: an idea whose time has come

- NRW-PBCs are highly financially viable
 - Most have Project IRRs above 20% -- many above 50%
 - Payback periods of less than two years are achievable.
 - These figures are attractive to private financiers— they exceed returns on Water Treatment Plant BOOTs, for example
- The pieces are in place to allow NRW-PBCs to be privately financed, like WTPs:
 - Similar project finance structures can be used
 - Model contracts and contracting tools are being developed with support from international agencies
 - There is a vibrant competitive market of service providers
 - Regulators have tools to support these contracts

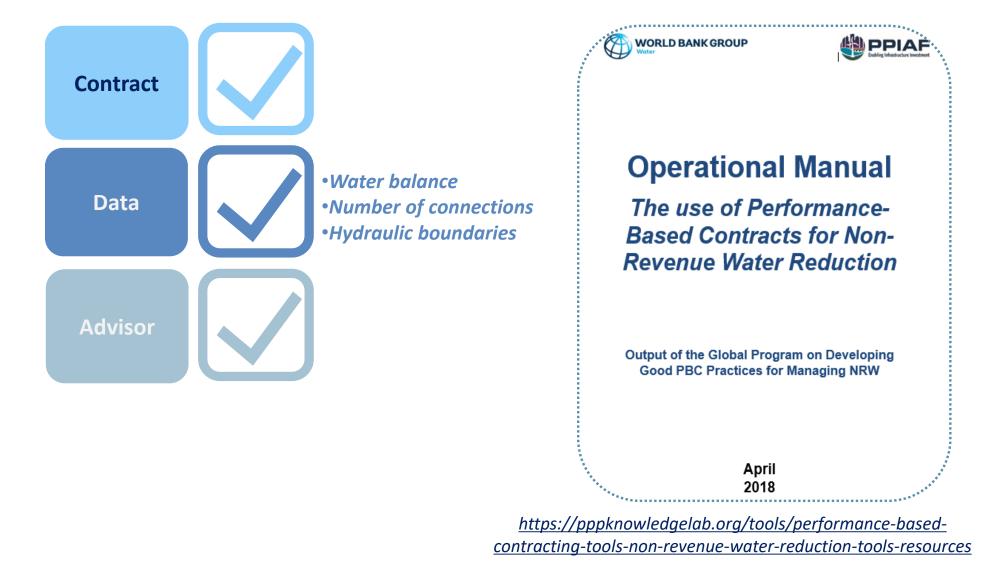


Structure for Privately Financed NRW-PBC



Service flow

Model contracts and support from international agencies are available



Competitive market of service providers in Americas

Name	Home country	Relevant experience includes	
BBL ENGENHARIA	Brazil	Brazil	
EGIS	France	Guyana, Jamaica	
GARZON-SALINAS, SA	Colombia	Guyana, Jamaica, Puerto Rico, Argentina, Brazil, Chile, Colombia, Dominican Republic, Honduras, Mexico, Nicaragua, Panama, Peru	
JOAT	South Africa	Suriname, Honduras, Nicaragua	
MIYA	Spain	Bahamas, Jamaica	
THORNTON INTERNATIONAL	Brazil	Bahamas, Brazil	
SEURECA	France	Trinidad & Tobago, Ecuador, Mexico, Peru, Venezuela	
SUEZ	France	Jamaica, Colombia	
VEOLIA	France	Brazil, Colombia, Ecuador	
VINCI-WMI	France	Barbados, Jamaica, Dominican Republic, Colombia	
VITENS-EVIDES INTERNATIONAL	The Netherlands	Curaçao, Haiti	

If your company is not listed here please contact David.Ehrhardt@Castalia-advisors.com



Regulators have the tools to support NRW reduction PBCs

Actions	Jamaica OUR	UK OFWAT	Manila-MWSS-RO
Set targets	2018 target: 74%	Thames Water 2019 leakage target (ml/d): 612	2007 target: 43%
Penalize not meeting targets		Ofwat fined Thames Water (TW) £120 million after TW failed to control leaks	2007 reward threshold: 42% 2007 penalty threshold: 44%
Direct utilities that fail to meet targets to implement PBC			
Ensure funding in tariff to cover costs	K-factor		
Enable or require utilities revenue to be put in special account to secure payment	K-factor account		



Conclusion

We need NRW-PBCs now because they

- Are often the fastest way to improve water services to fight infection
- Are one of the best infrastructure-stimulus projects possible
- Help utilities to remain financially viable
- Privately financed NRW-PBCs will be best because:
 - Utilities in the Americas are often not able to finance NRW reduction activities—lower cashflows from the pandemic will make this worse
 - Fiscal positions will deteriorate because of the pandemic, so government finance will be scarce
 - Conventional sources for finance NRW projects will often not be available
- Privately financed NRW-PBCs can be made to work given:
 - Project finance structures adapted from WTP BOOTs and ESCOS
 - Model contracts and contracting tools developed by international agencies
 - Vibrant field of service providers
 - Regulatory support
 - Financiers looking for investments with good returns plus social and resilience impact

