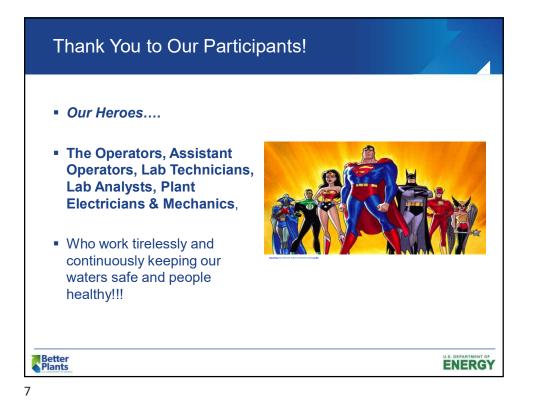
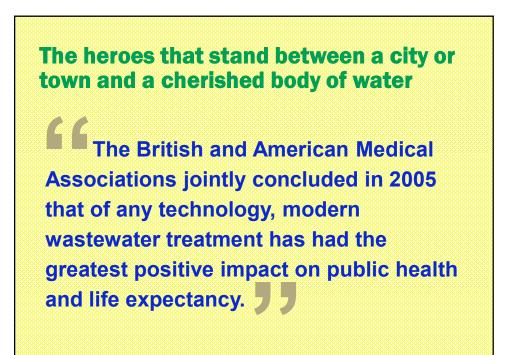
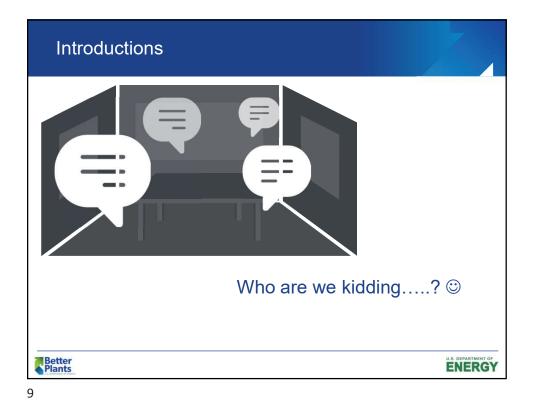


Today's Trainers	S	
Wendy Waudby Cascade Energy	Giulia Pollastri Cascade Energy:	Fic Wahlberg WasteWater Technology TRAINERS
Plants		US DEPARTMENT OF ENERGY

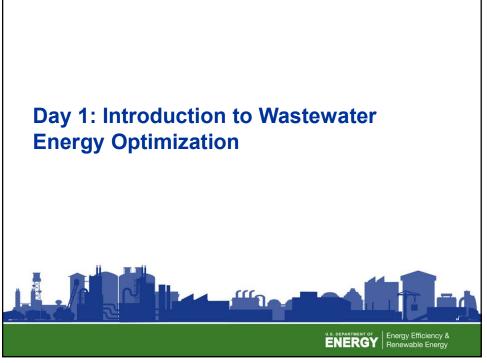




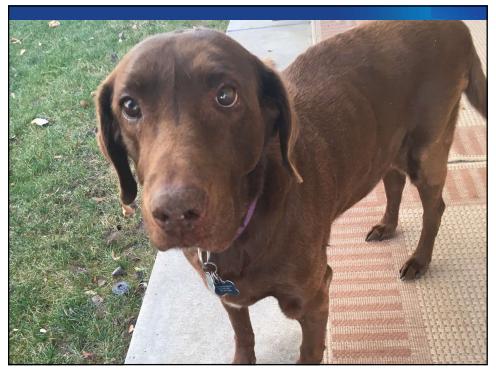








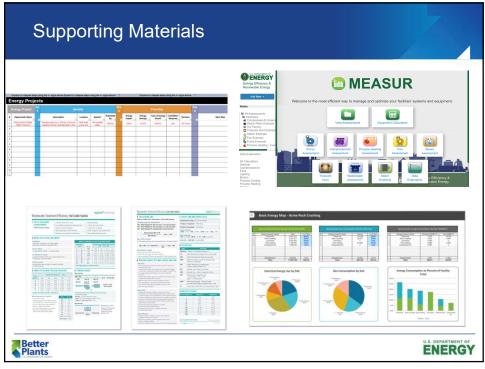






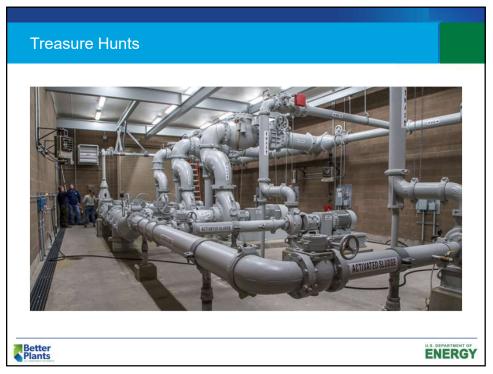
Sessions 1 & 2	Sessions 3, 4, & 5	Sessions 6, 7, & 8
 Wastewater Energy Basics Intro to Wastewater Tools Process Energy Conservation Pumping Systems Non-Potable Water Systems Follow the BOD 	 More Energy Basics Headworks Primary Clarifiers Aeration Energy Sludge Quality & SRT Fans and Odor Control 	 Even More Energy Basics RAS Flow Optimization Thickening, Digestion, and Dewatering Ancillary Systems Disinfection





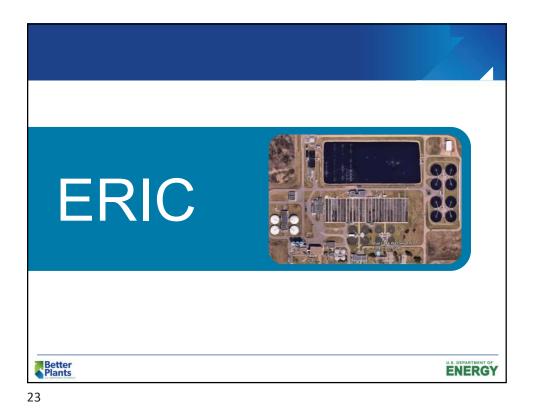


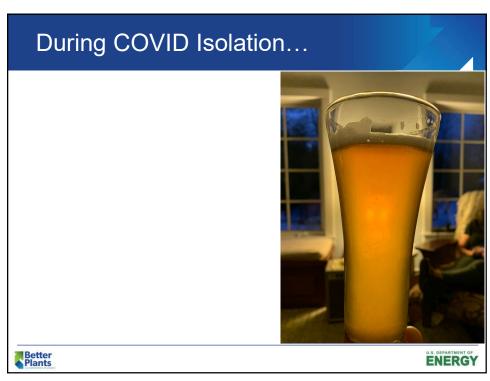
E	nergy Project 1	op I	lentify			Step 2			Prioritize			Step 3	
	Opportunity Name	Description	Location	System*	Submitted By	-	Energy Impact	Energy Savings	Type of Energy Saved*	Cost/Effort Required	Decision		Next St
	Reduce Non-Potable Water Pressure	Average pressure is 100 psi. Pressure needed is 80 psi. Average flow is 300		Non-potable water	Wendy		Gems	24,954	Electric	Low	Do it now		
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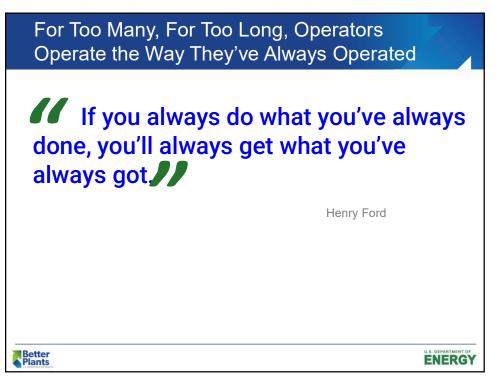


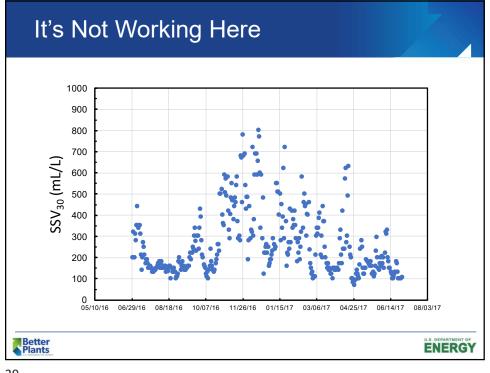


EXAMPLE 1EXAMPLE 1

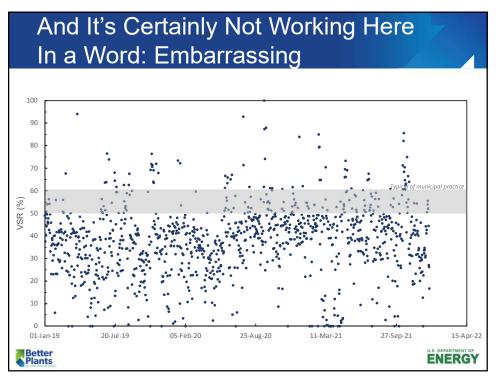


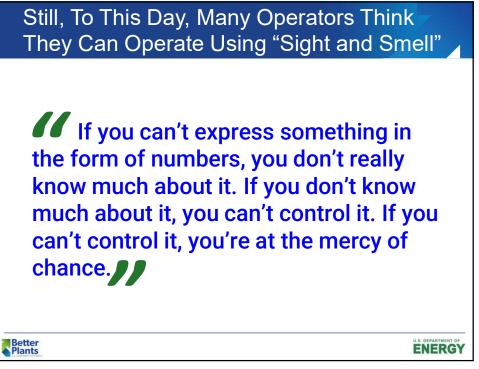


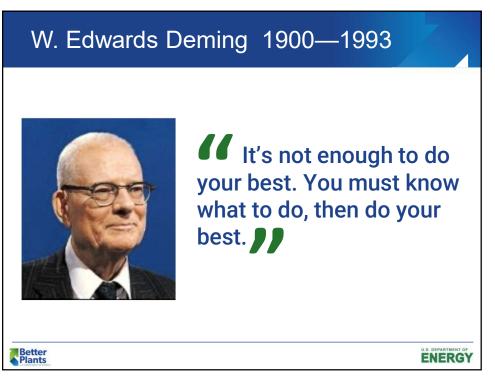














Code of Federal Re Secondary Treatme		0 Part 133				
Biological treatment meeting these standards:						
Parameter	30-day Average	7-day Average				
BOD ₅	30 mg/L	45 mg/L				
cBOD ₅	25 mg/L	40 mg/L				
TSS	30 mg/L	45 mg/L				
BOD and TSS removal (concentration)	Not less t	than 85%				
рН	6.0-	-9.0				
Better		U.S. DEPARTMENT OF				

Regulators Unde Wastewater Trea		ater and			
Biological treatment meeting these standards:					
Parameter	30-day Average	7-day Average			
BOD ₅	30 mg/L	45 mg/L			
cBOD ₅	25 mg/L	40 mg/L			
TSS	30 mg/L	45 mg/L			
BOD and TSS removal (concentration)	Not less t	han 85%			
рН	6.0-	-9.0			
Better Plants		U.S. DEPARTMENT OF			

HIGHLY VARIABLE					
Biological treatment meeting these standards:					
Parameter	30-day Average	7-day Average			
BOD ₅	30 mg/L	45 mg/L			
cBOD ₅	25 mg/L	40 mg/L			
TSS	30 mg/L	45 mg/L			
BOD and TSS removal (concentration)	Not less t	Not less than 85%			
рН	6.0-	-9.0			
Better Plants		U.S. DEPARTMENT OF			

