

FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

November 7-8, 2019
Washington, DC

A Maryland Story

Hosted by:



A Maryland Story - Background

- General Assembly passed EmPOWER Maryland Energy Efficiency Act of 2008 – 15% reduction by 2015
- 2016 – Public Service Commission sets 2% target
- Participating utilities
 - Baltimore Gas & Electric
 - Potomac Electric Power Co.
 - Delmarva Power & Light Co.
 - Potomac Edison
 - Southern Maryland Electric Cooperative



A Maryland Story – Partnership

- EmPOWER EE programs grew rapidly
- Separate CHP program evolved from the Custom path
 - Launched end of 2012
 - Program requirements/incentives identical throughout MD programs
- Maryland Energy Administration
 - Launched CHP Grant program in 2014
 - Current grant offering... up to \$575/kW, capped at \$500,000
 - mCHP ($\leq 60\text{kW}$) capped at \$75,000



Maryland
Energy
Administration

A Maryland Story - Status

BGE CHP Program Today

- 65% HHV, 100% on-site use
- Incentive Structure
 - ≤ 1 MW \$1,200/kW
 - > 1 MW \$900/kW
- Payment Timing
 - 10% Design – Completed drawings and permits filed
 - 30% Commissioning – Subject to inspection
 - 60% Production – 12 contiguous months, based on actual data vs. estimated
- Project Cap
 - \$2.5M maximum, one project/customer site/3-year program cycle
- Technical Field Support
 - BGE's "secret ingredient"



A Maryland Story - Impact

Completed Projects

	<u>Projects</u>	<u>MWh</u>	<u>Incentive</u>	<u>Participants</u>
2013			\$184,875	
2014	5	17,531	\$1,154,875	2 Schools, University, Casino, & Hospital
2015			\$909,217	
2016	3	59,703	\$1,402,170	DOD, Sports Club, & Food Processing
2017	2	30,900	\$1,975,918	(2) Hospitals
2018			\$1,963,093	
YTD 2019			\$1,794,716	
Total	10	108,134	\$9,384,864	

CHP brings three times more energy efficiency per dollar versus other programs

A Maryland Story - Future

Looking Forward...

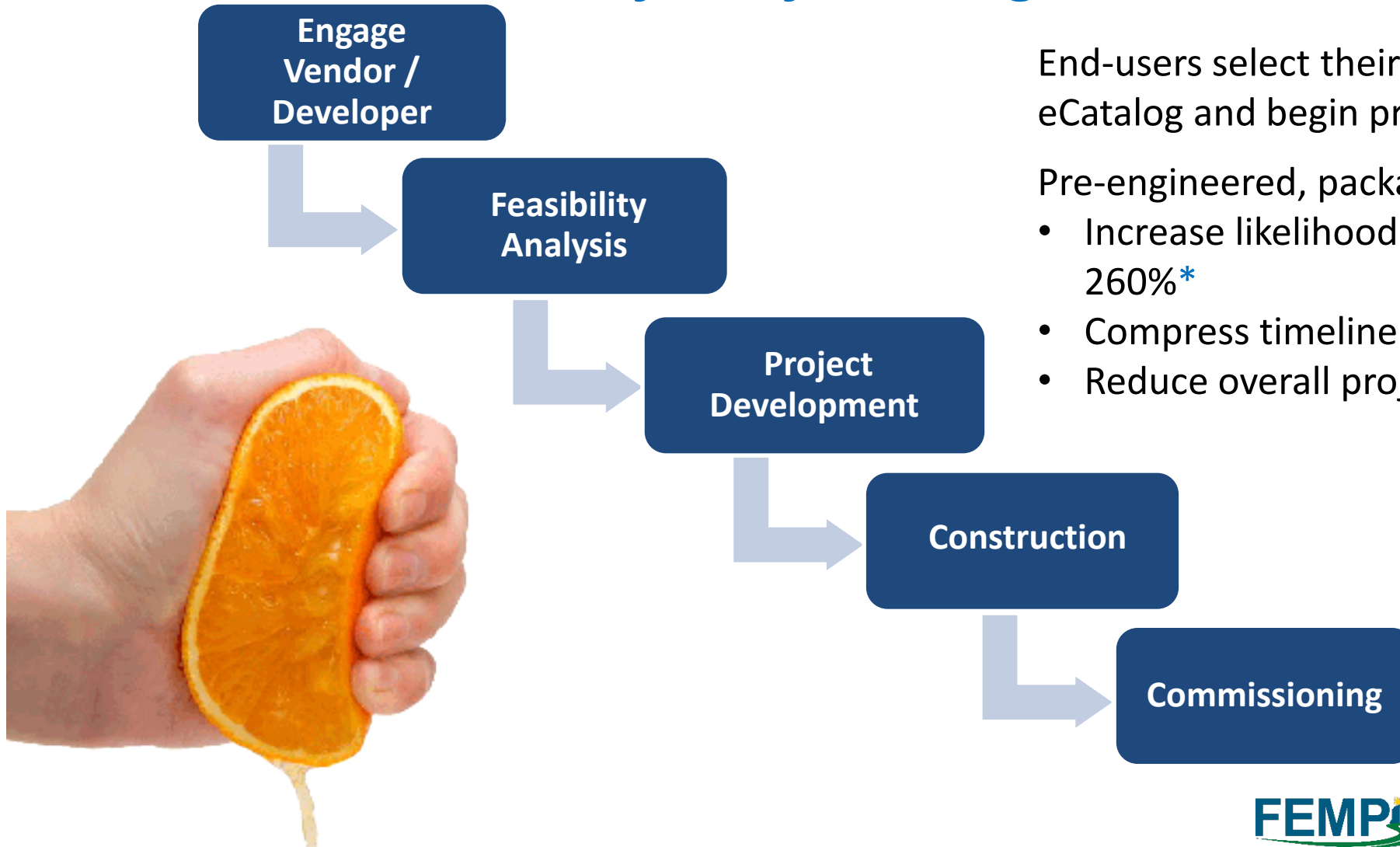
- Robust pipeline of potential projects
 - 2 X 2.5 MW coming on-line in January
- Potential incentive adjustment for 2021-23 Program Cycle
 - Higher incentive tier for ≤ 200 kW
- Employ DOE eCatalog to promote CHP to smaller facilities
 - Multifamily, nursing homes, & schools

“We spent a lot of time making sure the technology would work with our building’s operating characteristics. The availability of the incentives was a driving factor that helped facilitate the project and offset some of the costs. BGE’s technical support to validate the feasibility of the system also was critical.”

- Jeremy Scharfenberg, Energy Manager, Columbia Association

A Maryland Story – Plus DOE

Benefits of Packaged CHP



End-users select their system from DOE CHP eCatalog and begin project development swiftly.

Pre-engineered, packaged CHP systems can:

- Increase likelihood of project completion by 260%*
- Compress timeline by 40%*
- Reduce overall project cost by 25%*

*NYSERDA Catalog and Market Engagement Program