Green Storage TWG ROADMAP- 2020
Approximate and subject to change
Updated 1-22-20, Santa Clara

#	Events	Owner	CY 2020 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	CY 2021 Q1	Q2	Q3	Q4	CY2022
1	SNIA-GTWG F2F Invite EPA to concall		Santa Clara			Fremont Apr (virtual)			Portland July (virtual)			ColoSpr (tbd) Oct			Santa Clara Jan '21				
2	EPA-SNIA Industry Meetings																		
3	EPA DCStorage ENERGY STAR			2nd draft			Final draft	EPA release V2.0		EPA V2.0 will harmonize with Emerald 4.0									
4	ENERGY STAR Data Analysis		Review block & file										New/update white paper w/ TGG (? -tbd)						
5	ISO version of Emerald		ISO 24091 published Nov'19 based on Emerald 3.0.3															Publish ISO standard based on Emerald 4.0 (updated vs. new, tbd)	
6	Emerald Measurement Spec v4.0		1st draft & call for IP review. Includes new taxonomy			2nd draft			Final draft			Final published			Spec V4.0+ (?-tbd)				
7	Validate existing SW tools (VdBench, COMGEN)		> ongoing																
8	Futures																		
	Power / temp reporting		Swordfish SNIA SSM (Extension to Redfish)												Incl. in Swordfish 1.0				
	Memory attached persistent storage		Investigate and make recommendations												Out of scope 4.0				
	New workloads		Consider: unified tool (SPEC filer & block), AFA, tiered 7.2K+SSD (same workload, new generator)												Out of scope 4.0				
	Validate new tool/versions														Out of scope 4.0				
	Test methodologies for capacity optimization, data protection, etc. (impact on performance, energy consumption)														Out of scope 4.0				
	Energy measurement for large / new distributed systems; consider component level measurement, consider small scale measurement as system indicat														Out of scope 4.0				
	Collaborate w/ other Servers, Switch		SW-defined, Hyperconverged configs												Out of scope 4.0				
	Cloud data centers		Data caching, how to actually measure in the cloud												Out of scope 4.0				
	Object storage		Is market large enough?												Out of scope 4.0				
9	Partner Collaboration/Tracking		E*, TGG (incl 80PLUS, ECOS, Digital EU), Clearesults (labels 80PLUS), EU Lot 9, ASHRAE, ITI, SPEC-Storage/Power, SNIA-Jpn TopRunner, ISO, Oracle,																
10	V4.0 Readiness Tracker		Starting templat			Note: Readiness Tracker will align and detail specific tasks													
	Supporting Docs					Begin tracking													
	Training preparation																		
	Release Prep												TDR, What's Changed	User Guide					