

## INNOVATION AND TECHNOLOGY PERFORMANCE DATA

GRI Standards	Required Data	Unit	Data Collection Period			
			2018	2019	2020	2021
-	Innovation and Technology					
	Budget for technology research and development	MMUSD	18	24	12	12.5
	Projects for technology research and development;	Number of project	63	72	66	56
	Phase 1 (Preliminary Study)	Number of project	7	10	8	5
	Phase 2 (Lab-scale)	Number of project	27	33	29	23
	Phase 3 (Prototype)	Number of project	21	8	14	14
	Phase 4 (Pilot)	Number of project	5	16	12	10
	Phase 5 (Deployment or Commercialization)	Number of project	3	5	3	4
	Intellectual property registrations					
	Patent	Number	7	12	9	19
	Software copyrights	Number	2	2	0	0
	Publication of the study results					
	Research paper publicized in journals and conferences	Number	8	12	6	8