



Power Supply Procurement Plan 2021

OFF-GRID UNDER QTP (LAHUY & QUINALASAG ISLAND)

**CAMARINES SUR IV ELECTRIC COOPERATIVE, INC
(CASURECO)**

Forecasted Consumption Data

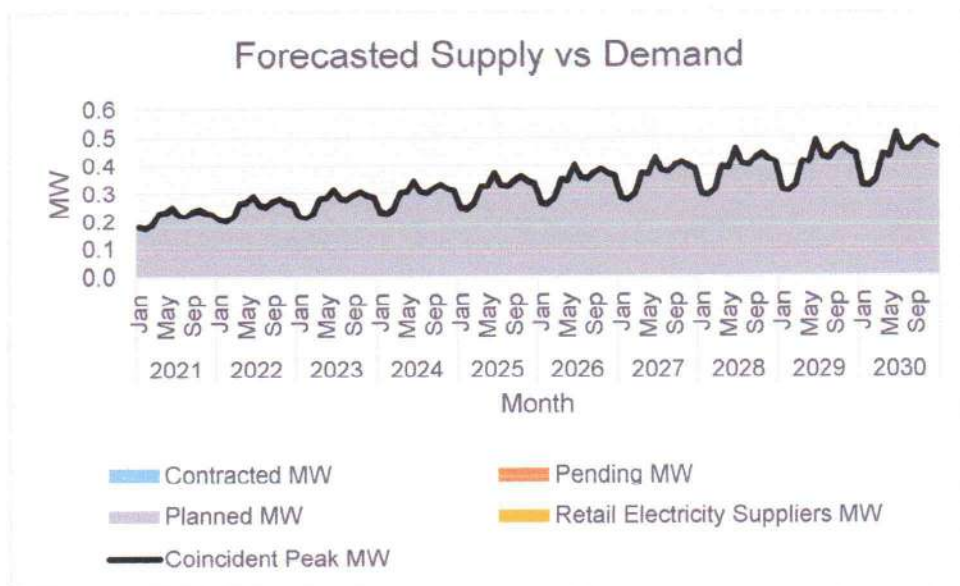
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2021	Jan	0.18	0.00	0.00	0.180		0%	100%	0.00
	Feb	0.17	0.00	0.00	0.174		0%	100%	0.00
	Mar	0.19	0.00	0.00	0.188		0%	100%	0.00
	Apr	0.23	0.00	0.00	0.228		0%	100%	0.00
	May	0.23	0.00	0.00	0.233		0%	100%	0.00
	Jun	0.25	0.00	0.00	0.250		0%	100%	0.00
	Jul	0.22	0.00	0.00	0.222		0%	100%	0.00
	Aug	0.22	0.00	0.00	0.220		0%	100%	0.00
	Sep	0.23	0.00	0.00	0.234		0%	100%	0.00
	Oct	0.24	0.00	0.00	0.242		0%	100%	0.00
	Nov	0.23	0.00	0.00	0.232		0%	100%	0.00
	Dec	0.23	0.00	0.00	0.226		0%	100%	0.00
2022	Jan	0.21	0.00	0.00	0.207		0%	100%	0.00
	Feb	0.20	0.00	0.00	0.201		0%	100%	0.00
	Mar	0.22	0.00	0.00	0.216		0%	100%	0.00
	Apr	0.26	0.00	0.00	0.263		0%	100%	0.00
	May	0.27	0.00	0.00	0.267		0%	100%	0.00
	Jun	0.29	0.00	0.00	0.288		0%	100%	0.00
	Jul	0.26	0.00	0.00	0.256		0%	100%	0.00
	Aug	0.25	0.00	0.00	0.253		0%	100%	0.00
	Sep	0.27	0.00	0.00	0.269		0%	100%	0.00
	Oct	0.28	0.00	0.00	0.279		0%	100%	0.00
	Nov	0.27	0.00	0.00	0.266		0%	100%	0.00
	Dec	0.26	0.00	0.00	0.260		0%	100%	0.00
2023	Jan	0.22	0.00	0.00	0.217		0%	100%	0.00
	Feb	0.21	0.00	0.00	0.212		0%	100%	0.00
	Mar	0.23	0.00	0.00	0.228		0%	100%	0.00
	Apr	0.28	0.00	0.00	0.280		0%	100%	0.00
	May	0.28	0.00	0.00	0.282		0%	100%	0.00

	Jun	0.31	0.00	0.00	0.313		0%	100%	0.00
	Jul	0.28	0.00	0.00	0.278		0%	100%	0.00
	Aug	0.28	0.00	0.00	0.275		0%	100%	0.00
	Sep	0.29	0.00	0.00	0.293		0%	100%	0.00
	Oct	0.30	0.00	0.00	0.303		0%	100%	0.00
	Nov	0.29	0.00	0.00	0.290		0%	100%	0.00
	Dec	0.28	0.00	0.00	0.283		0%	100%	0.00
2024	Jan	0.23	0.00	0.00	0.233		0%	100%	0.00
	Feb	0.23	0.00	0.00	0.228		0%	100%	0.00
	Mar	0.24	0.00	0.00	0.245		0%	100%	0.00
	Apr	0.30	0.00	0.00	0.302		0%	100%	0.00
	May	0.30	0.00	0.00	0.304		0%	100%	0.00
	Jun	0.34	0.00	0.00	0.342		0%	100%	0.00
	Jul	0.30	0.00	0.00	0.304		0%	100%	0.00
	Aug	0.30	0.00	0.00	0.300		0%	100%	0.00
	Sep	0.32	0.00	0.00	0.320		0%	100%	0.00
	Oct	0.33	0.00	0.00	0.331		0%	100%	0.00
	Nov	0.32	0.00	0.00	0.317		0%	100%	0.00
	Dec	0.31	0.00	0.00	0.309		0%	100%	0.00
2025	Jan	0.25	0.00	0.00	0.249		0%	100%	0.00
	Feb	0.24	0.00	0.00	0.244		0%	100%	0.00
	Mar	0.26	0.00	0.00	0.262		0%	100%	0.00
	Apr	0.33	0.00	0.00	0.325		0%	100%	0.00
	May	0.33	0.00	0.00	0.325		0%	100%	0.00
	Jun	0.37	0.00	0.00	0.371		0%	100%	0.00
	Jul	0.33	0.00	0.00	0.330		0%	100%	0.00
	Aug	0.33	0.00	0.00	0.326		0%	100%	0.00
	Sep	0.35	0.00	0.00	0.347		0%	100%	0.00
	Oct	0.36	0.00	0.00	0.359		0%	100%	0.00
	Nov	0.34	0.00	0.00	0.343		0%	100%	0.00
	Dec	0.34	0.00	0.00	0.335		0%	100%	0.00
2026	Jan	0.26	0.00	0.00	0.265		0%	100%	0.00
	Feb	0.26	0.00	0.00	0.260		0%	100%	0.00
	Mar	0.28	0.00	0.00	0.279		0%	100%	0.00
	Apr	0.35	0.00	0.00	0.348		0%	100%	0.00

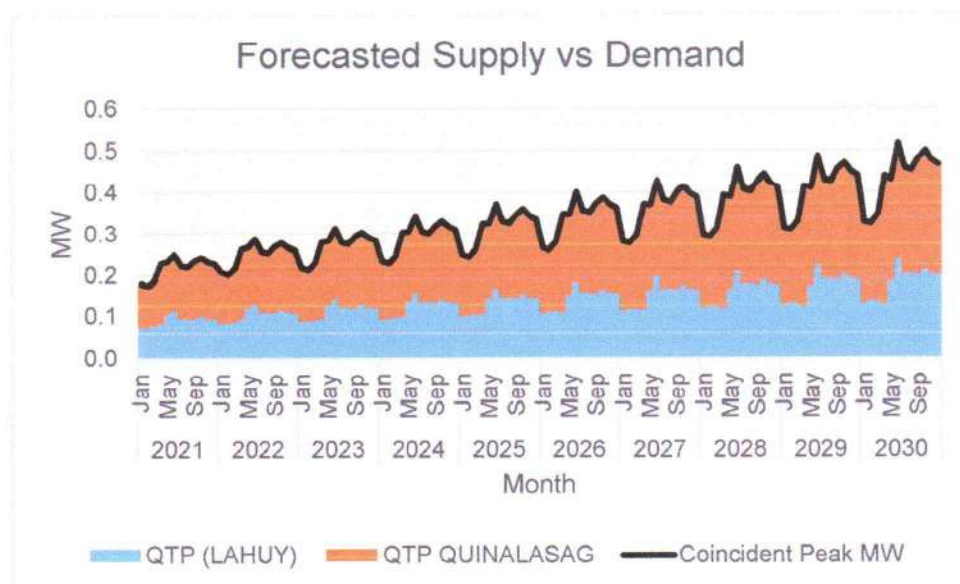
	May	0.35	0.00	0.00	0.347		0%	100%	0.00
	Jun	0.40	0.00	0.00	0.400		0%	100%	0.00
	Jul	0.36	0.00	0.00	0.355		0%	100%	0.00
	Aug	0.35	0.00	0.00	0.351		0%	100%	0.00
	Sep	0.37	0.00	0.00	0.374		0%	100%	0.00
	Oct	0.39	0.00	0.00	0.387		0%	100%	0.00
	Nov	0.37	0.00	0.00	0.370		0%	100%	0.00
	Dec	0.36	0.00	0.00	0.361		0%	100%	0.00
2027	Jan	0.28	0.00	0.00	0.281		0%	100%	0.00
	Feb	0.28	0.00	0.00	0.276		0%	100%	0.00
	Mar	0.30	0.00	0.00	0.296		0%	100%	0.00
	Apr	0.37	0.00	0.00	0.371		0%	100%	0.00
	May	0.37	0.00	0.00	0.368		0%	100%	0.00
	Jun	0.43	0.00	0.00	0.429		0%	100%	0.00
	Jul	0.38	0.00	0.00	0.381		0%	100%	0.00
	Aug	0.38	0.00	0.00	0.377		0%	100%	0.00
	Sep	0.40	0.00	0.00	0.401		0%	100%	0.00
	Oct	0.41	0.00	0.00	0.415		0%	100%	0.00
	Nov	0.40	0.00	0.00	0.396		0%	100%	0.00
	Dec	0.39	0.00	0.00	0.387		0%	100%	0.00
2028	Jan	0.30	0.00	0.00	0.297		0%	100%	0.00
	Feb	0.29	0.00	0.00	0.292		0%	100%	0.00
	Mar	0.31	0.00	0.00	0.313		0%	100%	0.00
	Apr	0.39	0.00	0.00	0.393		0%	100%	0.00
	May	0.39	0.00	0.00	0.390		0%	100%	0.00
	Jun	0.46	0.00	0.00	0.458		0%	100%	0.00
	Jul	0.41	0.00	0.00	0.407		0%	100%	0.00
	Aug	0.40	0.00	0.00	0.402		0%	100%	0.00
	Sep	0.43	0.00	0.00	0.428		0%	100%	0.00
	Oct	0.44	0.00	0.00	0.443		0%	100%	0.00
	Nov	0.42	0.00	0.00	0.423		0%	100%	0.00
	Dec	0.41	0.00	0.00	0.413		0%	100%	0.00
2029	Jan	0.31	0.00	0.00	0.313		0%	100%	0.00
	Feb	0.31	0.00	0.00	0.309		0%	100%	0.00
	Mar	0.33	0.00	0.00	0.330		0%	100%	0.00

	Apr	0.42	0.00	0.00	0.416		0%	100%	0.00
	May	0.41	0.00	0.00	0.411		0%	100%	0.00
	Jun	0.49	0.00	0.00	0.487		0%	100%	0.00
	Jul	0.43	0.00	0.00	0.432		0%	100%	0.00
	Aug	0.43	0.00	0.00	0.427		0%	100%	0.00
	Sep	0.45	0.00	0.00	0.454		0%	100%	0.00
	Oct	0.47	0.00	0.00	0.471		0%	100%	0.00
	Nov	0.45	0.00	0.00	0.450		0%	100%	0.00
	Dec	0.44	0.00	0.00	0.440		0%	100%	0.00
2030	Jan	0.33	0.00	0.00	0.328		0%	100%	0.00
	Feb	0.32	0.00	0.00	0.325		0%	100%	0.00
	Mar	0.35	0.00	0.00	0.347		0%	100%	0.00
	Apr	0.44	0.00	0.00	0.439		0%	100%	0.00
	May	0.43	0.00	0.00	0.432		0%	100%	0.00
	Jun	0.52	0.00	0.00	0.516		0%	100%	0.00
	Jul	0.46	0.00	0.00	0.458		0%	100%	0.00
	Aug	0.45	0.00	0.00	0.453		0%	100%	0.00
	Sep	0.48	0.00	0.00	0.481		0%	100%	0.00
	Oct	0.50	0.00	0.00	0.498		0%	100%	0.00
	Nov	0.48	0.00	0.00	0.476		0%	100%	0.00
	Dec	0.47	0.00	0.00	0.466		0%	100%	0.00

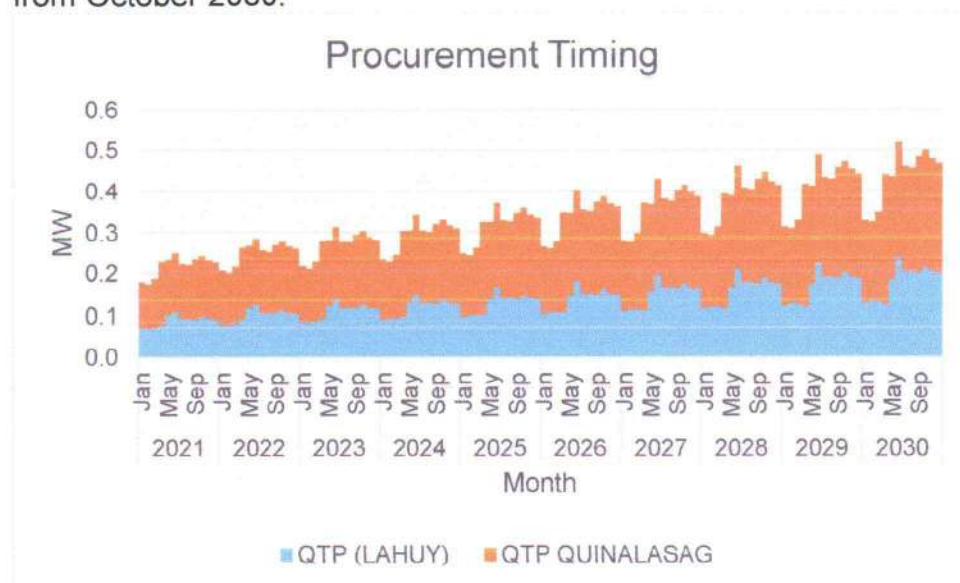
The Peak Demand was forecasted using linear trend analysis and was assumed to occur on the month of June due to summer weather. Monthly Peak Demand is at its lowest on the month of February due to cooler weather and low demand in the island.



By year 2021, the two island grids Lahuy and Quinalasag, will be turned over to FP Island Energy Corporation (FPIC) under the QTP.



Of the available supply, the largest is 0.516 MW from June 2030. This is followed by 0.498 MW from October 2030.



The first wave of supply procurement will be for 0.17966 MW planned to be available by the month of January 2021.



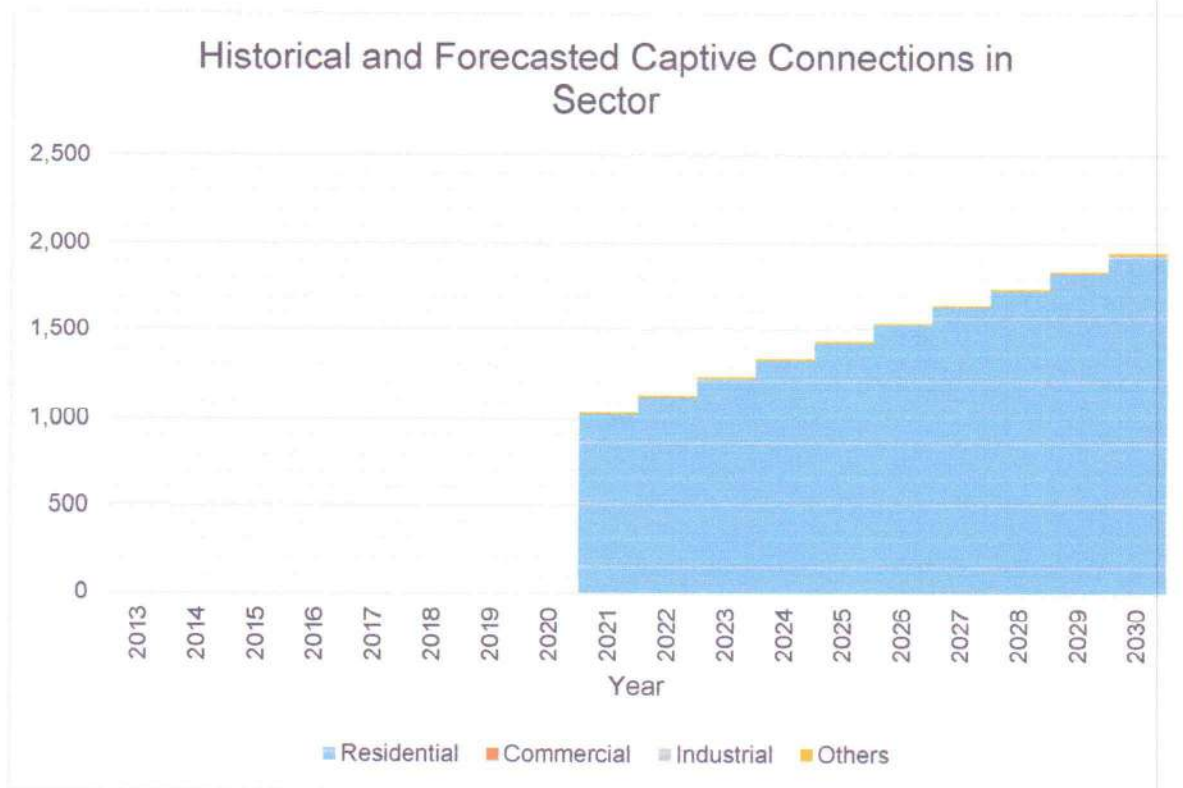
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2021	Jan	34	30	4	0.17%	10.90%
	Feb	28	23	5	0.25%	16.51%
	Mar	29	26	3	0.16%	10.65%
	Apr	29	25	3	0.17%	11.42%
	May	45	39	6	0.19%	12.46%
	Jun	45	40	5	0.18%	11.55%
	Jul	42	40	2	0.08%	4.97%
	Aug	41	35	6	0.22%	14.44%
	Sep	41	40	1	0.03%	2.24%
	Oct	37	34	3	0.12%	7.82%
	Nov	39	33	6	0.22%	14.70%
	Dec	41	36	5	0.17%	11.23%
2022	Jan	39	35	4	0.17%	10.90%
	Feb	32	27	5	0.25%	16.51%
	Mar	34	30	4	0.16%	10.65%
	Apr	33	29	4	0.17%	11.42%
	May	52	45	6	0.19%	12.46%
	Jun	52	46	6	0.18%	11.55%
	Jul	48	46	2	0.08%	4.97%
	Aug	47	40	7	0.22%	14.44%
	Sep	47	46	1	0.03%	2.24%
	Oct	43	40	3	0.12%	7.82%
	Nov	44	38	6	0.22%	14.70%
	Dec	47	42	5	0.17%	11.23%
2023	Jan	43	38	5	0.17%	10.91%
	Feb	32	27	5	0.25%	16.59%
	Mar	35	31	4	0.16%	10.67%

	Apr	30	27	3	0.17%	11.50%
	May	55	48	7	0.19%	12.49%
	Jun	56	50	6	0.18%	11.57%
	Jul	52	50	3	0.08%	4.97%
	Aug	51	43	7	0.22%	14.47%
	Sep	51	50	1	0.03%	2.23%
	Oct	45	42	4	0.12%	7.84%
	Nov	48	41	7	0.22%	14.74%
	Dec	51	45	6	0.17%	11.25%
2024	Jan	47	42	5	0.17%	10.92%
	Feb	33	28	6	0.25%	16.64%
	Mar	37	33	4	0.16%	10.70%
	Apr	30	27	4	0.18%	11.56%
	May	59	51	7	0.19%	12.51%
	Jun	61	54	7	0.18%	11.59%
	Jul	57	54	3	0.08%	4.98%
	Aug	55	47	8	0.22%	14.50%
	Sep	56	54	1	0.03%	2.24%
	Oct	49	45	4	0.12%	7.87%
	Nov	52	44	8	0.22%	14.78%
	Dec	56	49	6	0.17%	11.27%
2025	Jan	52	46	6	0.17%	10.94%
	Feb	35	29	6	0.25%	16.70%
	Mar	40	35	4	0.16%	10.73%
	Apr	31	27	4	0.18%	11.63%
	May	63	55	8	0.19%	12.54%
	Jun	67	59	8	0.18%	11.61%
	Jul	62	59	3	0.08%	5.00%
	Aug	60	51	9	0.22%	14.52%
	Sep	60	59	1	0.03%	2.25%
	Oct	52	48	4	0.12%	7.89%
	Nov	56	48	8	0.22%	14.80%
	Dec	60	53	7	0.17%	11.29%
2026	Jan	56	50	6	0.17%	10.95%
	Feb	37	30	6	0.25%	16.76%
	Mar	42	37	4	0.16%	10.75%
	Apr	31	27	4	0.18%	11.70%
	May	67	59	8	0.19%	12.56%
	Jun	72	63	8	0.18%	11.63%
	Jul	67	63	3	0.08%	5.01%
	Aug	65	55	9	0.22%	14.54%
	Sep	65	63	1	0.03%	2.26%
	Oct	55	51	4	0.12%	7.91%
	Nov	60	51	9	0.23%	14.83%
	Dec	65	58	7	0.17%	11.30%
2027	Jan	60	54	7	0.17%	10.96%
	Feb	38	32	6	0.26%	16.80%
	Mar	44	39	5	0.16%	10.77%
	Apr	31	27	4	0.18%	11.76%
	May	71	62	9	0.19%	12.58%
	Jun	77	68	9	0.18%	11.65%

	Jul	72	68	4	0.08%	5.02%
	Aug	69	59	10	0.22%	14.56%
	Sep	70	68	2	0.03%	2.27%
	Oct	59	54	5	0.12%	7.92%
	Nov	65	55	10	0.23%	14.85%
	Dec	70	62	8	0.17%	11.32%
2028	Jan	65	57	7	0.17%	10.97%
	Feb	40	33	7	0.26%	16.85%
	Mar	47	41	5	0.16%	10.79%
	Apr	31	27	4	0.18%	11.83%
	May	76	66	10	0.19%	12.59%
	Jun	82	72	10	0.18%	11.66%
	Jul	76	72	4	0.08%	5.03%
	Aug	74	63	11	0.22%	14.58%
	Sep	74	73	2	0.03%	2.27%
	Oct	62	57	5	0.12%	7.94%
	Nov	69	58	10	0.23%	14.87%
	Dec	74	66	8	0.17%	11.33%
2029	Jan	69	61	8	0.17%	10.97%
	Feb	41	34	7	0.26%	16.88%
	Mar	49	43	5	0.16%	10.80%
	Apr	31	27	4	0.18%	11.89%
	May	80	70	10	0.19%	12.61%
	Jun	87	77	10	0.18%	11.67%
	Jul	81	77	4	0.08%	5.03%
	Aug	79	67	11	0.22%	14.59%
	Sep	79	77	2	0.03%	2.27%
	Oct	65	60	5	0.12%	7.95%
	Nov	73	62	11	0.23%	14.88%
	Dec	79	70	9	0.17%	11.34%
2030	Jan	73	65	8	0.17%	10.98%
	Feb	43	35	7	0.26%	16.92%
	Mar	51	46	6	0.16%	10.81%
	Apr	31	27	4	0.18%	11.96%
	May	84	73	11	0.19%	12.62%
	Jun	92	82	11	0.18%	11.68%
	Jul	86	82	4	0.08%	5.04%
	Aug	83	71	12	0.22%	14.60%
	Sep	84	82	2	0.03%	2.28%
	Oct	69	63	5	0.12%	7.96%
	Nov	77	66	11	0.23%	14.90%
	Dec	84	74	10	0.17%	11.35%

MWh Offtake was forecasted using linear trend analysis.
The assumed load factor is 100%.

Captive Customer Connections



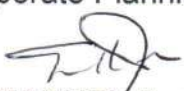
FPIC is due to be on commercial operation in 2021 for the Islands of Lahuy and Quinalasag under QTP.

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