

TC#	INPUTS				OUTPUTS							ACTUAL OUTPUT	PASS/ FAIL	REMARKS
	User_type	Sector_type	Consumption	Continue	Total Elec Bil no tax	Total Elec Tax	Total Elec with Tax	Total Discounted Elec Bil no tax	Total Discounted Elec Tax	Total Discounted Elec with Tax	Total Saving during COVID-19			
TC1	R	H	199	0	43,382	0	43,382	21,691	0	21,691	21,691		pass	continue is 0 => launch the function only once
	R	H	200	0	43,6	0	43,6	21,8	0	21,8	21,8		pass	
TC2	R	H	201	0	43,818	0	43,818	21,909	0	21,909	21,909		pass	
	R	H	299	0	76,666	0	76,666	46,5995	0	46,5995	30,0665		pass	
	R	H	300	0	77	0	77	46,85	0	46,85	30,15		pass	
TC3	R	H	301	0	77,334	0	77,334	47,1005	0	47,1005	30,2335		pass	
	R	H	599	0	231,284	0	231,284	177,9914	0	177,9914	53,2926		pass	
	R	H	600	0	231,8	0	231,8	178,43	0	178,43	53,37		pass	
TC4	R	H	601	0	232,316	0,03096	232,34696	178,8686	0,026316	178,894916	53,452044		pass	
	R	H	899	0	395,054	9,79524	404,84924	338,41892	9,5993352	348,0182552	56,8309848		pass	
	R	H	900	0	395,6	9,828	405,428	338,954	9,63144	348,58544	56,84256		pass	
TC5	R	H	901	0	396,146	9,86076	406,00676	339,48908	9,6635448	349,1526248	56,8541352		pass	
TC6	NR	H	601	0	291,109	3,55854	294,66754	247,44265	4,140759	251,583409	43,084131		pass	
TC7	NR	T	601	0	291,109	3,55854	294,66754	247,44265	4,140759	251,583409	43,084131			
TC8	NR	T	599	0	290,091	0	290,091	246,57735	0	246,57735	43,51365		pass	
	NR	T	600	0	290,6	0	290,6	247,01	0	247,01	43,59		pass	
TC9	NR	H	599	0	290,091	0	290,091	246,57735	0	246,57735	43,51365			
	NR	H	600	0	290,6	0	290,6	247,01	0	247,01	43,59			
TC10	NR	C	601	0	291,109	3,55854	294,66754	285,28682	6,4114092	291,6982292	2,9693108		pass	
TC11	NR	I	601	0	291,109	3,55854	294,66754	285,28682	6,4114092	291,6982292	2,9693108			
TC12	NR	C	600	0	290,6	0	290,6	284,788	0	284,788	5,812			
TC13	NR	I	600	0	290,6	0	290,6	284,788	1	285,788	4,812		pass	

TC#	Description
TC1	user_type = Residential AND 0 kWh <= consumption <= 200 kWh
TC2	user_type = Residential AND 200 kWh < consumption <= 300 kWh
TC3	user_type = Residential AND 300 kWh < consumption <= 600 kWh
TC4	user_type = Residential AND 600 kWh < consumption <= 900 kWh
TC5	user_type = Residential AND consumption > 900 kWh
TC6	user_type = Non-Residential AND consumption > 600 kWh AND sector_type = Hotel
TC7	user_type = Non-Residential AND consumption > 600 kWh AND sector_type = Travel
TC8	user_type = Non-Residential AND consumption <= 600 kWh AND sector_type = Hotel
TC9	user_type = Non-Residential AND consumption <= 600 kWh AND sector_type = Travel
TC10	user_type = Non-Residential AND consumption > 600 kWh AND sector_type = Commercial
TC11	user_type = Non-Residential AND consumption > 600 kWh AND sector_type = Industrial
TC12	user_type = Non-Residential AND consumption <= 600 kWh AND sector_type = Commercial or Industrial
TC13	user_type = Non-Residential AND consumption <= 600 kWh AND sector_type = Commercial or Industrial
TC14	user_type = Non-Residential AND sector_type is wrong