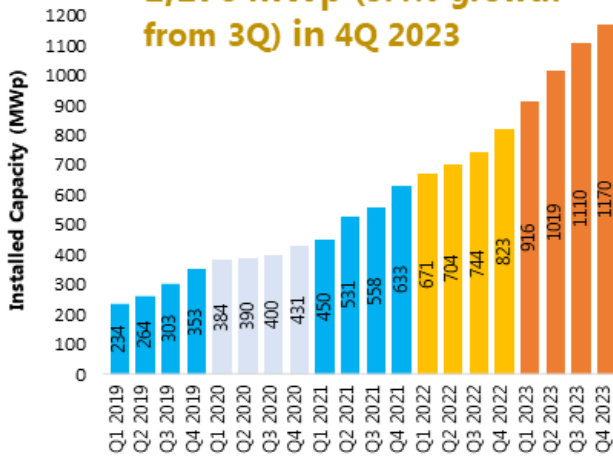




SOLAR PV SNAPSHOT OF SINGAPORE 4Q 2023

Installed capacity

1,170 MWp (5.4% growth from 3Q) in 4Q 2023



Top Contributors based on Installed Capacity



Private Sector

760.7 MWp (65.0%)



Town Councils & Public Housing Common Services

288.5 MWp (24.7%)

Top Contributors based on Number of Solar Installations



Town Councils & Public Housing Common Services

3,653 installations (42.9%)



Residential

3,311 installations (38.8%)

Planned Installations



Additional **~173.5 MWp**

of installed capacity expected by 2Q 2024.

Energy Storage Systems



205.4 MW

of installed ESS capacity has been turned on as of 4Q 2023.

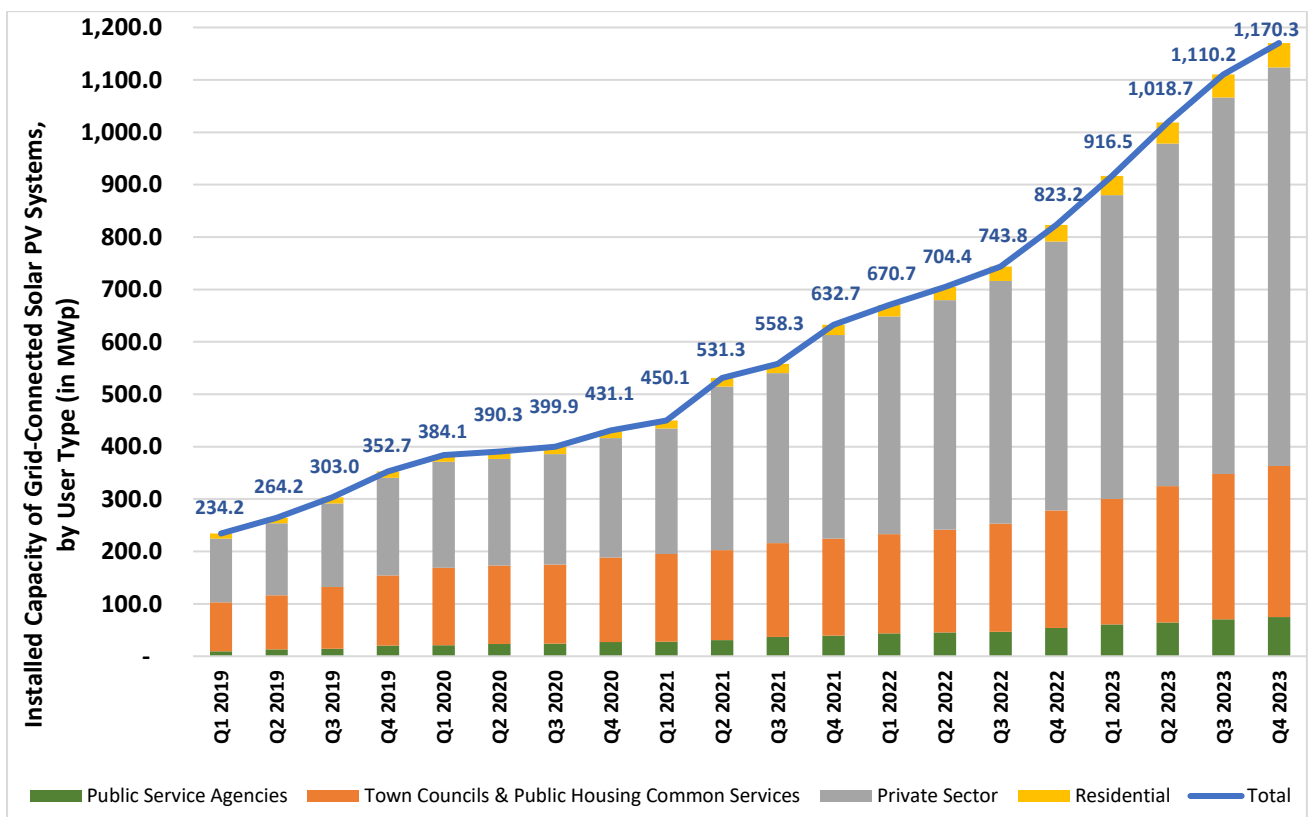
SINGAPORE SOLAR PHOTOVOLTAIC REPORT 4Q 2023

1. This report provides an update on the key solar photovoltaic (PV) statistics (i.e., installed capacity and number of installations) in Singapore for 4Q 2023.
2. There were 8,524 grid-connected solar PV installations as at end 4Q 2023, with a combined installed capacity of 1,170.3 megawatt-peak (MWp) (see [Annex A](#) and [B](#)).

Installed Capacity

3. The total installed capacity of grid-connected solar PV systems was 1,170.3 MWp as at end 4Q 2023. This was a 5.4% (or 60.1 MWp) increase from the preceding quarter, attributed to 329 new installations in 4Q 2023.
4. The private sector contributed to majority of the solar PV capacity (65.0% or 760.7 MWp), followed by town councils & public housing common services (24.7% or 288.5 MWp). The remaining PV capacity contributions were from public service agencies (6.4% or 74.6 MWp) and residential sector (4.0% or 46.6 MWp) (see [Annex A](#)).
5. [Figure 1](#) provides a snapshot of the installed capacity of grid-connected solar PV installations from 2019 to 4Q 2023.

Figure 1: Installed Capacity of Grid-Connected Solar PV Systems (in MWp), 1Q 2019 – 4Q 2023 (as at end of each quarter)



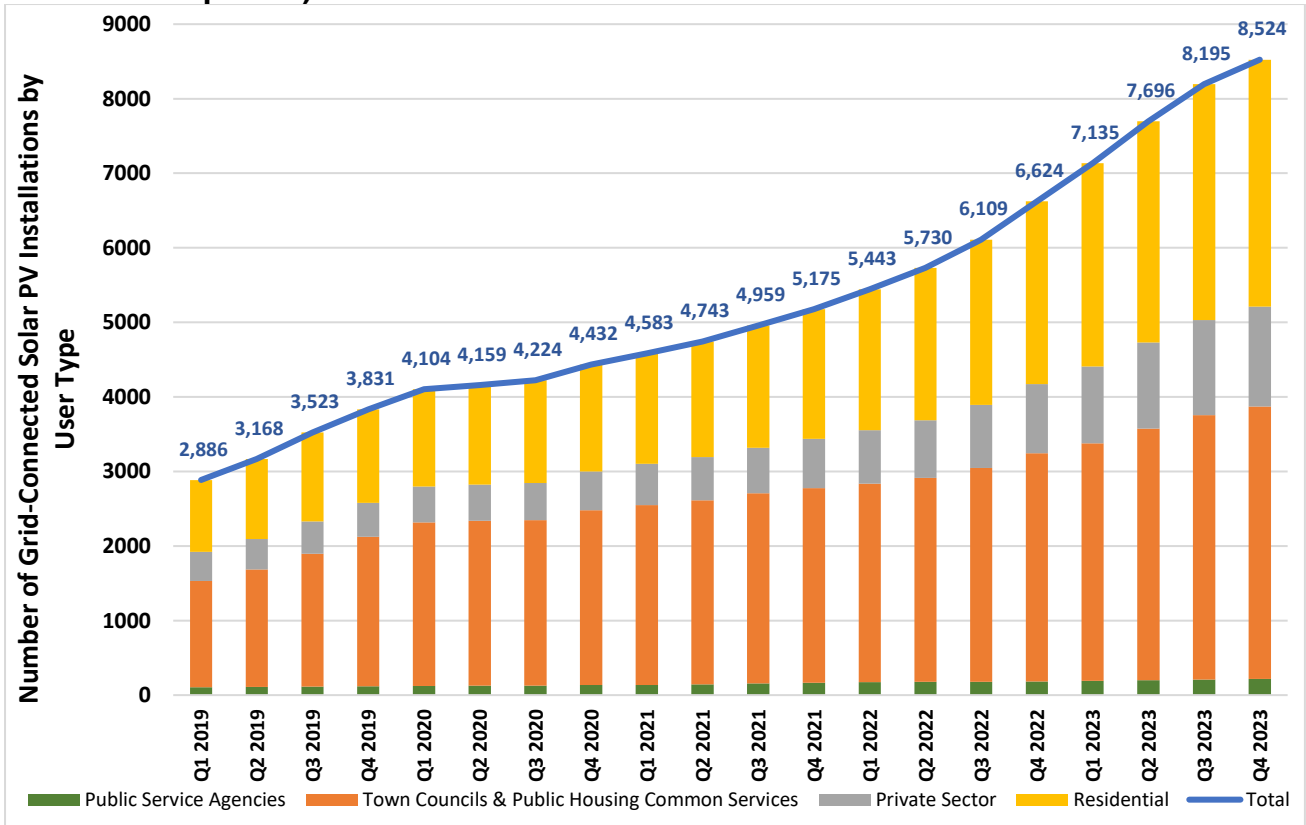
Note:

Historical values have been revised with the incorporation of latest information from SP on de-commissioned installations and reclassification of installations.

Number of Installations

- 6. There were 329 new grid-connected solar PVs installed in Q4 2023, bringing the total number of installations in Singapore to 8,524.
- 7. Town councils & public housing common services accounted for majority (42.9% or 3,653 installations) of total installations, followed by the residential (38.8% or 3,311 installations) and private (15.7% or 1,342 installations) sectors. Public service agencies constituted the remaining (2.6% or 218 installations) of total installations (see Annex B).
- 8. Figure 2 provides a snapshot of the number of grid-connected solar PV installations from 2019 to 4Q 2023.

Figure 2: Number of Grid-Connected Solar PV Installations, 1Q 2019 – 4Q 2023 (as at end of each quarter)



Note:
 Historical values have been revised with the incorporation of latest information from SP on de-commissioned installations and reclassification of installations.

Planned Installations

- 9. As at end 4Q 2023, it is estimated that a combined capacity of around 173.5 MWp is expected for grid-connection by 1H 2024.

Date: 10 Jun 2024

ANNEX A

INSTALLED CAPACITY OF GRID-CONNECTED SOLAR PV SYSTEMS, Q1 2019 – Q4 2023 (AS AT END OF EACH QUARTER)

	2019				2020				2021				2022				2023				Unit: MWp
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Total	234.2	264.2	303.0	352.7	384.1	390.3	399.9	431.1	450.1	531.3	558.3	632.7	670.7	704.4	743.8	823.2	916.5	1,018.7	1,110.2	1,170.3	
Residential	9.8	10.7	11.3	12.2	13.1	13.5	14.2	15.0	15.7	16.8	18.1	19.6	22.1	24.7	27.5	31.7	36.5	40.5	44.0	46.6	
Non-Residential	224.4	253.5	291.7	340.5	371.0	376.9	385.7	416.2	434.4	514.5	540.3	613.1	648.6	679.7	716.3	791.4	880.0	978.2	1,066.2	1,123.8	
Public Service Agencies	9.5	12.8	14.4	20.1	20.7	23.7	24.3	27.2	27.8	30.8	37.0	39.5	43.7	45.2	46.4	54.3	61.0	64.4	70.8	74.6	
Town Councils & Public Housing Common Services	93.3	103.6	117.8	134.3	148.2	149.4	150.4	161.2	167.5	171.7	178.6	185.0	189.2	196.6	206.5	224.1	239.2	260.1	277.2	288.5	
Private Sector	121.6	137.2	159.5	186.1	202.1	203.7	211.0	227.8	239.1	312.0	324.6	388.5	415.7	437.9	463.4	513.1	579.8	653.7	718.1	760.7	

Source: SP PowerGrid Ltd (SPPG)

	2019				2020				2021				2022				2023				Unit: MWac
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Total	180.4	203.4	233.3	271.6	295.8	300.6	307.9	332.0	346.6	409.1	429.9	487.2	516.5	542.4	572.7	633.8	705.7	784.4	854.8	901.2	
Residential	7.6	8.2	8.7	9.4	10.1	10.4	10.9	11.5	12.1	12.9	13.9	15.1	17.0	19.0	21.2	24.4	28.1	31.2	33.9	35.9	
Non-Residential	172.8	195.2	224.6	262.2	285.7	290.2	297.0	320.5	334.5	396.2	416.0	472.1	499.4	523.4	551.6	609.4	677.6	753.2	820.9	865.3	
Public Service Agencies	7.3	9.9	11.1	15.5	16.0	18.3	18.7	20.9	21.4	23.7	28.5	30.4	33.7	34.8	35.7	41.8	47.0	49.6	54.5	57.4	
Town Councils & Public Housing Common Services	71.9	79.7	90.7	103.4	114.1	115.1	115.8	124.1	129.0	132.2	137.5	142.5	145.6	151.4	159.0	172.5	184.2	200.3	213.5	222.1	
Private Sector	93.6	105.6	122.8	143.3	155.6	156.8	162.5	175.4	184.1	240.2	250.0	293.1	320.1	337.2	356.8	395.1	446.4	503.3	553.0	585.7	

Source: SP PowerGrid Ltd (SPPG) & Energy Market Authority (EMA)

Note:

- a. Historical values have been revised with the incorporation of new information on de-commissioned installations and reclassification of installations.
- b. Figures may not add up to the total due to rounding.
- c. MWp refers to megawatt peak, which is a typical measure of the installed nameplate capacity of solar PV systems. MWp represents the amount of electric power than can be produced by a solar PV system at its peak.
- d. MWac refers to the Alternating Current (AC) capacity of the inverters used in solar PV installations.

NUMBER OF GRID-CONNECTED SOLAR PV INSTALLATIONS, Q1 2019 – Q4 2023 (AS AT END OF EACH QUARTER)

Data As At 4Q 2023

	2019				2020				2021				2022				2023			
	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023
Total	2,886	3,168	3,523	3,831	4,104	4,159	4,224	4,432	4,583	4,743	4,959	5,175	5,443	5,730	6,109	6,624	7,135	7,696	8,195	8,524
Residential	962	1075	1195	1252	1307	1335	1378	1431	1481	1552	1640	1737	1891	2043	2215	2451	2727	2967	3165	3311
Non-Residential	1,924	2,093	2,328	2,579	2,797	2,824	2,846	3,001	3,102	3,191	3,319	3,438	3,552	3,687	3,894	4,173	4,408	4,729	5,030	5,213
Public Service Agencies	105	109	113	118	122	127	129	135	136	145	157	165	173	177	179	185	192	201	208	218
Town Councils & Public Housing Common Services	1426	1575	1785	2007	2195	2212	2220	2346	2415	2469	2549	2613	2664	2736	2867	3058	3185	3376	3548	3653
Private Sector	393	409	430	454	480	485	497	520	551	577	613	660	715	774	848	930	1031	1152	1274	1342

Source: SP PowerGrid Ltd (SPPG)

Note:

a. Historical values have been revised with the incorporation of new information on de-commissioned installations and reclassification of installations.