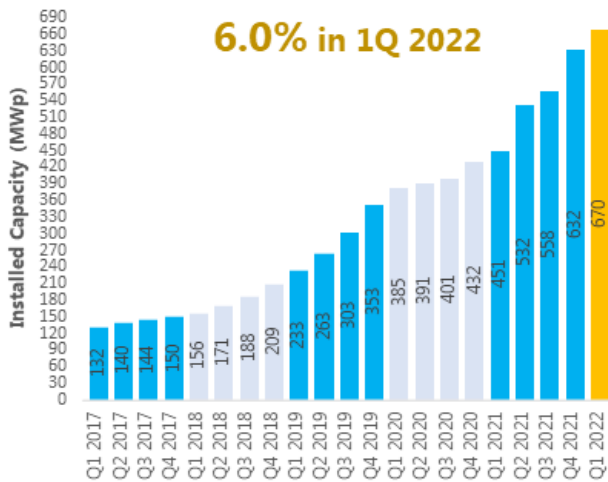




# SOLAR PV SNAPSHOT OF SINGAPORE 1Q 2022

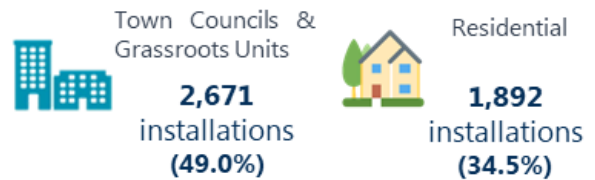
## Installed capacity grew by



## Top Contributors based on Installed Capacity



## Top Contributors based on Number of Solar Installations



## Planned Installations



Additional  
**~120 MWp**

of installed capacity expected by end 2022.

## Energy Storage Systems



**2,799 kW**

of installed ESS capacity has been turned on as of 1Q 2022.

## SINGAPORE SOLAR PHOTOVOLTAIC REPORT 1Q 2022

This solar PV report provides an update on the key solar photovoltaic (PV) statistics (i.e. installed capacity and number of installations) in Singapore for 1Q 2022.

2. There were 5,459 grid-connected solar PV installations as at end 4Q 2021, with a combined installed capacity of 670.4 megawatt-peak (MWp) (see [Annex A](#) and [Annex B](#)).

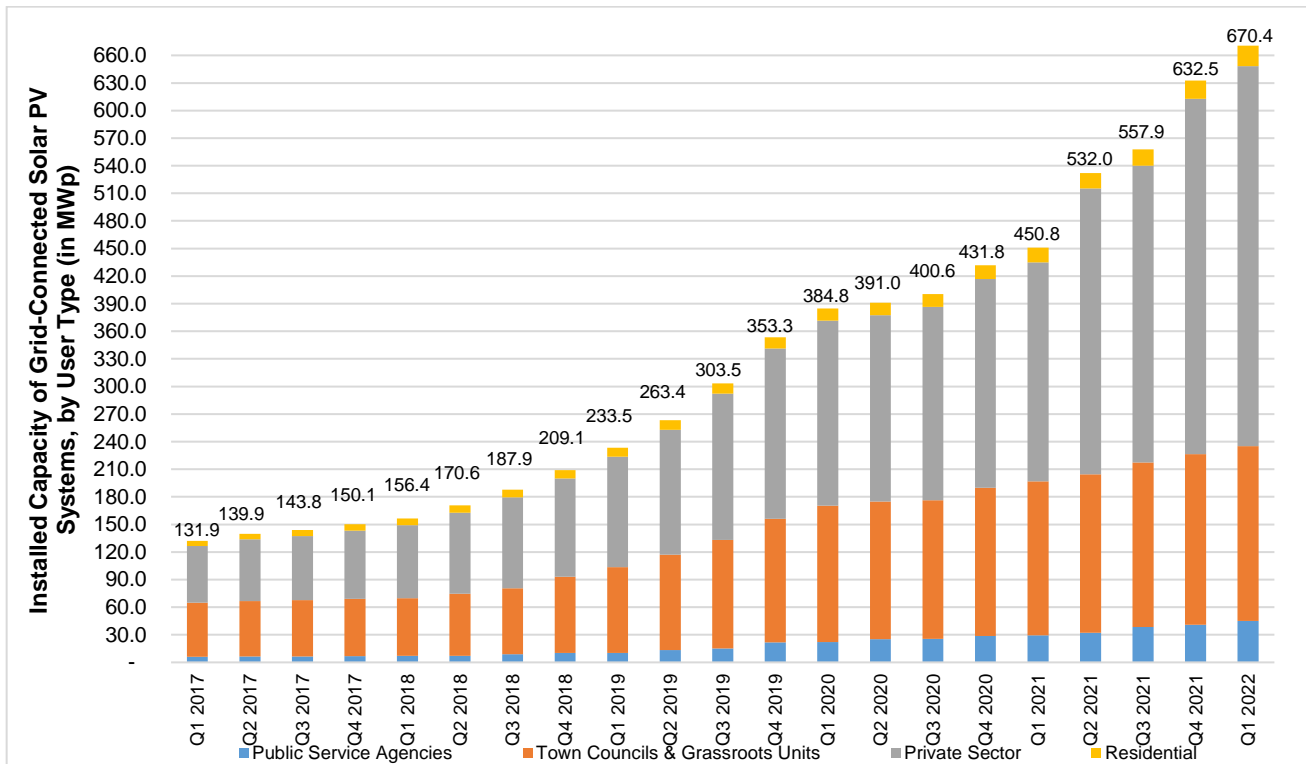
### Installed Capacity

3. The total installed capacity of grid-connected solar PV systems was 670.4 MWp as at end 1Q 2022. This was a 6.0% (37.9MWp) increase from the preceding quarter, attributed to 271 new installations in 1Q 2022. There was a lower quarter-on-quarter solar growth in Q1 2022 (6.0%) as compared to Q4 2021 (13.3%).

4. The private sector contributed to majority of the solar PV capacity (61.6% or 413.1MWp), followed by town councils & grassroots units (28.3% or 190.0MWp). The remaining PV capacity contributions were from public service agencies (6.7% or 45.2MWp) and residential sector (3.3% or 22.1MWp) (see [Annex A](#)).

5. [Figure 1](#) provides a snapshot of the installed capacity of grid-connected solar PV installations from 2017 to 4Q 2022.

**Figure 1: Installed Capacity of Grid-Connected Solar PV Systems (in MWp), 1Q 2017 – 1Q 2022 (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.

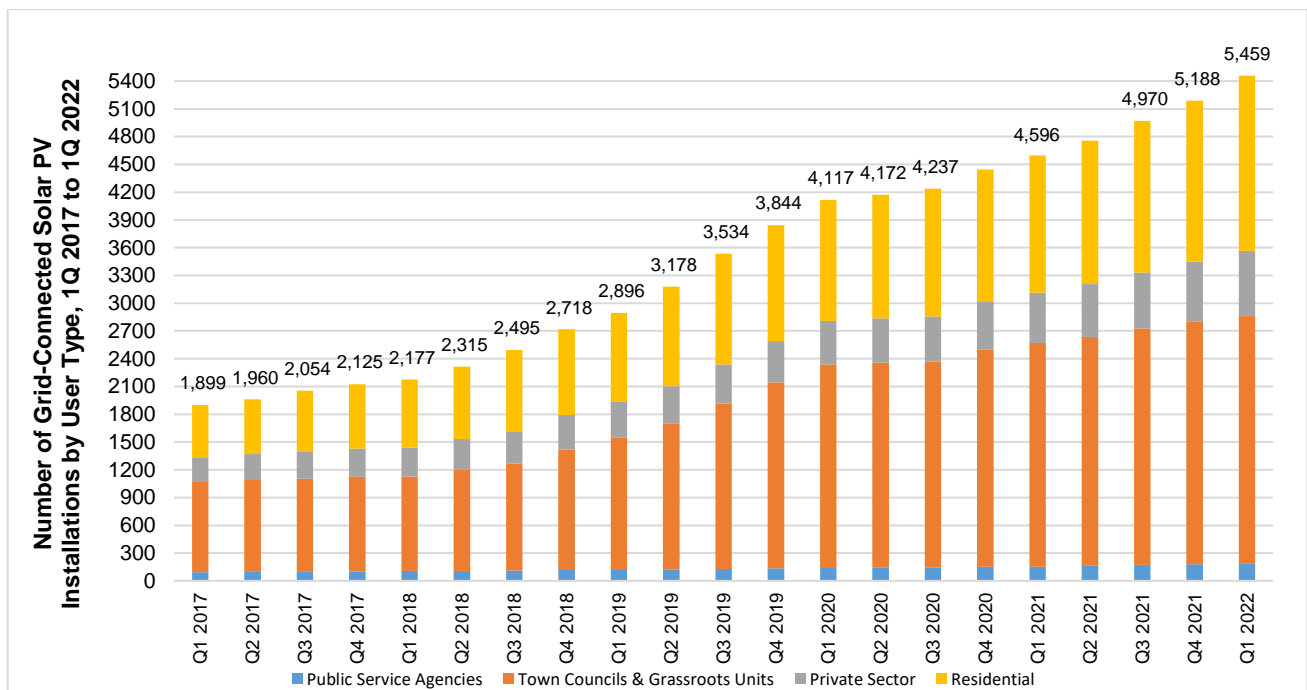
## Number of Installations

6. There were 271 new grid-connected solar PVs installed in 1Q 2022, bringing the total number of installations in Singapore to 5,459.

7. Town councils & grassroots units accounted for majority (48.9% or 2,671 installations) of total installations, followed by the residential (34.7% or 1,892 installations) and private (13.0% or 707 installations) sectors. Public service agencies constituted the remaining (3.5% or 189 installations) of total installations (see Annex B).

8. Figure 2 provides a snapshot of the number of grid-connected solar PV installations from 1Q 2017 to 1Q 2022.

**Figure 2: Number of Grid-Connected Solar PV Installations, 1Q 2017 – 1Q 2022 (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 1Q 2022, a combined installed capacity of 53.2MWp (not yet installed) was slated for grid-connection by Q2 2022 and 61.4MWp was planned for grid-connection by Q3 2022.

**Published Date: 8 September 2022**

## ANNEX A

### INSTALLED CAPACITY OF GRID-CONNECTED SOLAR PV SYSTEMS, Q1 2017 – Q1 2022 (AS AT END OF EACH QUARTER)

	Unit: MWp																				
	2017				2018				2019				2020				2021				2022
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<b>Total</b>	131.9	139.9	143.8	150.1	156.4	170.6	187.9	209.1	233.5	263.4	303.5	353.3	384.8	391.0	400.6	431.8	450.8	532.0	557.9	632.5	670.4
<b>Residential</b>	5.6	5.9	6.4	6.9	7.4	7.9	8.6	9.3	9.8	10.7	11.3	12.2	13.1	13.5	14.2	14.9	15.7	16.7	18.0	19.6	22.1
<b>Non-Residential</b>	126.4	134.0	137.4	143.2	149.0	162.7	179.3	199.8	223.7	252.8	292.1	341.2	371.7	377.5	386.4	416.9	435.1	515.2	539.9	612.9	648.3
Public Service Agencies	6.2	6.3	6.3	6.6	7.1	7.3	8.8	10.1	10.3	13.6	15.1	21.6	22.2	25.2	25.7	28.7	29.2	32.3	38.3	41.0	45.2
Town Councils & Grassroots Units	58.8	60.5	61.4	62.4	62.5	67.5	71.8	83.0	93.4	103.6	117.9	134.4	148.3	149.5	150.5	161.3	167.6	172.2	179.1	185.5	190.0
Private Sector	61.4	67.1	69.7	74.2	79.4	87.9	98.8	106.7	120.0	135.6	159.1	185.2	201.2	202.8	210.1	226.9	238.2	310.7	322.5	386.4	413.1

Source: SP PowerGrid Ltd (SPPG)

	Unit: MWac																				
	2017				2018				2019				2020				2021				2022
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<b>Total</b>	101.6	107.7	110.7	115.6	120.4	131.4	144.7	161.0	179.8	202.8	233.7	272.1	296.3	301.1	308.5	332.5	347.1	409.6	429.6	487.0	516.2
<b>Residential</b>	4.3	4.5	4.9	5.3	5.7	6.1	6.6	7.1	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
<b>Non-Residential</b>	97.3	103.1	105.8	110.3	114.8	125.3	138.0	153.8	172.2	194.6	224.9	262.7	286.2	290.7	297.5	321.0	335.0	396.7	415.7	471.9	499.2
Public Service Agencies	4.8	4.8	4.8	5.1	5.5	5.6	6.7	7.8	7.9	10.4	11.7	16.7	17.1	19.4	19.8	22.1	22.5	24.9	29.5	31.6	34.8
Town Councils & Grassroots Units	45.2	46.6	47.3	48.1	48.1	52.0	55.3	63.9	71.9	79.8	90.8	103.5	114.2	115.2	115.9	124.2	129.1	132.6	137.9	142.8	146.3
Private Sector	47.3	51.7	53.7	57.1	61.1	67.7	76.0	82.2	92.4	104.4	122.5	142.6	154.9	156.1	161.8	174.7	183.4	239.3	248.3	297.5	318.1

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.

## ANNEX B

### **NUMBER OF GRID-CONNECTED SOLAR PV INSTALLATIONS, Q1 2017 – Q1 2022 (AS AT END OF EACH QUARTER)**

	2017				2018				2019				2020				2021				2022
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<b>Total</b>	<b>1,899</b>	<b>1,960</b>	<b>2,054</b>	<b>2,125</b>	<b>2,177</b>	<b>2,315</b>	<b>2,495</b>	<b>2,718</b>	<b>2,896</b>	<b>3,178</b>	<b>3,534</b>	<b>3,844</b>	<b>4,117</b>	<b>4,172</b>	<b>4,237</b>	<b>4,445</b>	<b>4,596</b>	<b>4,756</b>	<b>4,970</b>	<b>5,188</b>	<b>5,459</b>
<b>Residential</b>	562	591	660	698	737	781	880	927	963	1,076	1,196	1,253	1,308	1,336	1,379	1,432	1,482	1,551	1,640	1,738	1,892
<b>Non-Residential</b>	<b>1,337</b>	<b>1,369</b>	<b>1,394</b>	<b>1,427</b>	<b>1,440</b>	<b>1,534</b>	<b>1,615</b>	<b>1,791</b>	<b>1,933</b>	<b>2,102</b>	<b>2,338</b>	<b>2,591</b>	<b>2,809</b>	<b>2,836</b>	<b>2,858</b>	<b>3,013</b>	<b>3,114</b>	<b>3,205</b>	<b>3,330</b>	<b>3,450</b>	<b>3,567</b>
Public Service Agencies	94	96	97	102	106	109	112	116	119	123	127	134	138	143	145	151	152	161	172	181	189
Town Councils & Grassroots Units	975	995	1,006	1,022	1,021	1,091	1,154	1,304	1,429	1,578	1,788	2,011	2,199	2,216	2,224	2,350	2,419	2,474	2,553	2,617	2,671
Private Sector	268	278	291	303	313	334	349	371	385	401	423	446	472	477	489	512	543	570	605	652	707

Note:

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