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Installations

Show the number of solar panel installations up to 2015 for this municipality:

```
SELECT COUNT(*) AS num_installations
FROM installation
WHERE Year_Installed <= '2015-12-31'
      AND Municipality = 'municipality_name';
```

Show the number of solar panel installations up to 2020 for this municipality:

```
SELECT COUNT(*) AS num_installations
FROM installation
WHERE Year_Installed <= '2020-12-31'
      AND Municipality = 'municipality_name';
```

Show the number of residential solar panel installations for this municipality up to 2015:

```
SELECT COUNT(*) AS num_residential_installations
FROM installation
WHERE Year_Installed <= '2015-12-31'
      AND Customer_Type = 'Residential'
      AND Municipality = 'municipality_name';
```

Show the number of residential solar panel installations for this municipality up to 2020:

```
SELECT COUNT(*) AS num_residential_installations
FROM installation
WHERE Year_Installed <= '2020-12-31'
      AND Customer_Type = 'Residential'
      AND Municipality = 'municipality_name';
```

Show the number of commercial solar panel installations for this municipality up to 2015:

```
SELECT COUNT(*) AS num_residential_installations
FROM installation
WHERE Year_Installed <= '2015-12-31'
      AND Customer_Type = 'Commercial'
      AND Municipality = 'municipality_name';
```

Show the number of commercial solar panel installations for this municipality up to 2020:

```
SELECT COUNT(*) AS num_residential_installations
FROM installation
WHERE Year_Installed <= '2020-12-31'
      AND Customer_Type = 'Commercial'
      AND Municipality = 'municipality_name';
```

Show the number of other solar panel installations for this municipality up to 2015:

```
SELECT COUNT(*) AS num_other_installations
FROM installation
WHERE Year_Installed <= '2015-12-31'
      AND Municipality = 'municipality_name'
      AND Program != 'Residential'
      AND Program != 'Commercial';
```

Show the number of other solar panel installations for this municipality up to 2020:

```
SELECT COUNT(*) AS num_other_installations
FROM installation
WHERE Year_Installed <= '2020-12-31'
      AND Municipality = 'municipality_name'
      AND Program != 'Residential'
      AND Program != 'Commercial';
```

Relation to municipality population

Create table that shows the percentage of solar panel installations in regards to population up to 2015 for this municipality:

```
CREATE TABLE insallations_population_2015 AS
SELECT *, COUNT(Solar_Installations.Municipality) AS Total_installations
FROM Municipality
WHERE Year = '2015'
AND Municipality = 'municipality_name'
JOIN Solar_Installations
ON Municipality.Municipality = Solar_Installations.Municipality
AND Solar_Installations.PTO_Date <= '2015-12-31'
```

Create table that show the percentage of solar panel installations in regards to population up to 2020 for this municipality

```
CREATE TABLE insallations_population_2020 AS
SELECT *, COUNT(Solar_Installations.Municipality) AS Total_installations
FROM Municipality
WHERE Year = '2020'
AND Municipality = 'municipality_name'
JOIN Solar_Installations
ON Municipality.Municipality = Solar_Installations.Municipality
AND Solar_Installations.PTO_Date <= '2020-12-31'
```

Create table that show the percentage of total MTCO2e in regards to population in 2015 for this municipality

```
CREATE TABLE MTCO2e_population_2015
SELECT *, CO2_Emissions.Total_MTCO2e
FROM Municipality
WHERE Year = '2015'
AND Municipality = 'municipality_name'
JOIN CO2_Emissions
```

```
ON Municipality.Municipality = CO2_Emissions.Municipality
AND CO2_Emissions.Year = '2015'
```

Create table that show the percentage of total MTCO2e in regards to population in 2015 for this municipality

```
CREATE TABLE MTCO2e_population_2020
SELECT *, CO2_Emissions.Total_MTCO2e
FROM Municipality
WHERE Year = '2020'
AND Municipality = 'municipality_name'
JOIN CO2_Emissions
ON Municipality.Municipality = CO2_Emissions.Municipality
AND CO2_Emissions.Year = '2020'
```

Total MTCO2e

Show the total MTCO2e in 2020 for this municipality

```
SELECT TOTAL_MTCO2e AS Total_CO2_2020
FROM CO2_Emissions
WHERE Year_collected = '2020'
AND Municipality = 'municipality_name'
```

Show the total MTCO2e in 2015 for this municipality

```
SELECT TOTAL_MTCO2e AS Total_CO2_2015
FROM CO2_Emissions
WHERE Year_collected = '2015'
AND Municipality = 'municipality_name'
```