

```
SELECT
  SUM(net_generation-demand) AS total_enrg,
  region
FROM
  intel.energy_data
GROUP BY
  region
ORDER BY
  total_enrg DESC;
```

```
SELECT
  SUM(solar+wind+hydropower_and_pumped_storage) AS to_re_enrg,
  region
FROM
  intel.energy_data
GROUP BY
  region
ORDER BY
  to_re_enrg DESC;
```

```
SELECT
  (SUM(solar+wind+hydropower_and_pumped_storage)/SUM(net_generation))*100 AS
  per_re_enrg,
  region
FROM
  intel.energy_data
GROUP BY
  region
ORDER BY
  per_re_enrg DESC;
```

```
SELECT
  date,
  region,
  SUM(solar+wind+hydropower_and_pumped_storage) AS energy_generated_mw
FROM
  intel.energy_data
GROUP BY
  date,
  Region;
```

```
SELECT
  date,
  region,
```

```

SUM(solar+wind+hydropower_and_pumped_storage) AS energy_generated_mw,
'renewable energy' AS energy_type
FROM
  intel.energy_data
GROUP BY
  date,
  region;

SELECT
  date,
  region,
  SUM(all_petroleum_products + coal + natural_gas + nuclear + other_fuel_sources) AS
energy_generated_mw
FROM
  intel.energy_data
GROUP BY
  date,
  region;

SELECT
  date,
  region,
  SUM(all_petroleum_products + coal + natural_gas + nuclear + other_fuel_sources) AS
energy_generated_mw,
'renewable energy' AS energy_type
FROM
  intel.energy_data
GROUP BY
  date,
  region;

SELECT
  date,
  region,
  SUM(all_petroleum_products + coal + natural_gas + nuclear + other_fuel_sources) AS
energy_generated_mw,
'renewable energy' AS energy_type
FROM
  intel.energy_data
GROUP BY
  date,
  region
UNION

```

```

SELECT
    date,
    region,
    SUM(solar+wind+hydropower_and_pumped_storage) AS energy_generated_mw,
    'renewable energy' AS energy_type
FROM
    intel.energy_data
GROUP BY
    date,
    Region;

```

```

SELECT
    *
FROM
    intel.power_plants as p
INNER JOIN
    intel.energy_by_plant as e
ON
    p.plant_code=e.plant_code;

```

```

SELECT
    COUNT(e.energy_type),
    p.region
FROM
    intel.power_plants as p
    INNER JOIN intel.energy_by_plant as e ON p.plant_code = e.plant_code
GROUP BY
    p.region,
    e.energy_type
HAVING
    energy_type = 'renewable_energy';

```

```

SELECT
    COUNT(e.plant_code),
    SUM(e.energy_generated_mw),
    p.region
FROM
    intel.power_plants as p
    INNER JOIN intel.energy_by_plant as e ON p.plant_code = e.plant_code
WHERE
    p.primary_technology = 'Solar Photovoltaic'
GROUP BY
    p.region,

```

```
e.energy_generated_mw,  
e.plant_code  
;
```

```
SELECT  
  COUNT(e.plant_code),  
  p.region  
FROM  
  intel.power_plants as p  
  INNER JOIN intel.energy_by_plant as e ON p.plant_code = e.plant_code  
WHERE  
  p.primary_technology = 'Solar Photovoltaic'  
GROUP BY  
  p.region  
;
```

```
SELECT  
  SUM(hydropower_and_pumped_storage+solar+wind) AS net_renew,  
  region,  
  date_part('hour', time_at_end_of_hour) AS hour  
FROM  
  intel.energy_data  
GROUP BY  
  region,  
  hour;
```

```
SELECT  
  SUM(hydropower_and_pumped_storage+solar+wind) AS net_renew,  
  region,  
  date_part('hour', time_at_end_of_hour) AS hour  
FROM  
  intel.energy_data  
WHERE  
  region = 'California'  
  OR  
  region = 'Northwest'  
GROUP BY  
  region,  
  hour;
```

