



Renewable Energy Insights

Leveraging Data for a Better Future

Home

Overview

Management

Distribution

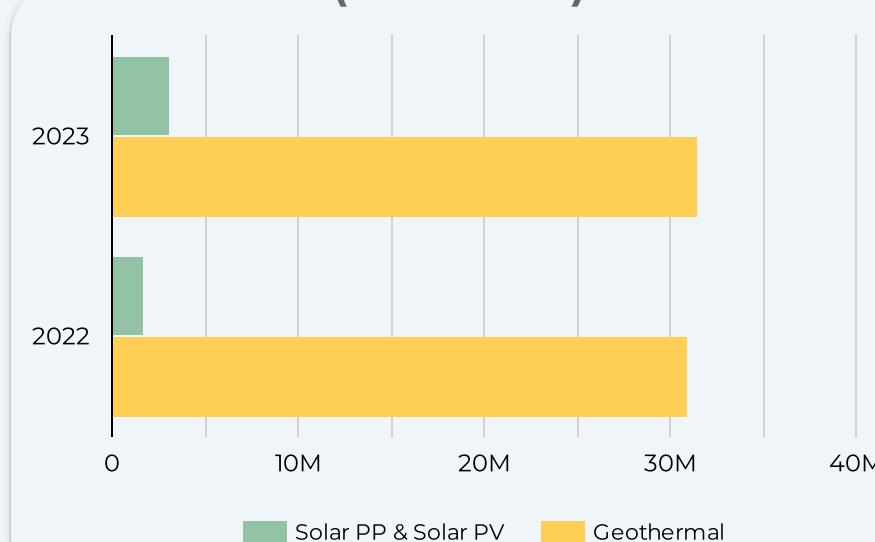
Efficiency

Jelajahi Potensi Energi Terbarukan!

Tempat di mana data bertemu dengan keberlanjutan.



Suplai Energi Terbarukan di Indonesia
(dalam BoE)



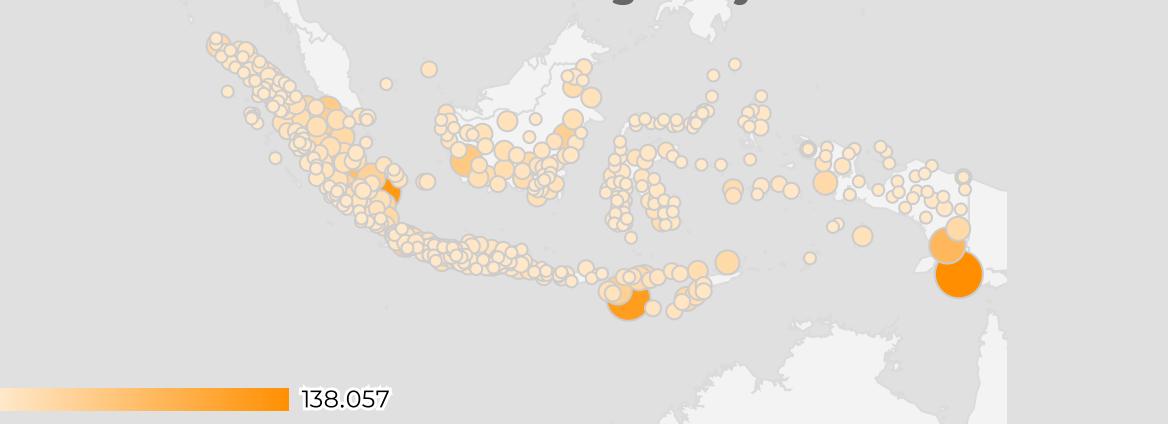
Profil Jumlah Pembangkit Listrik di Indonesia

Jumlah PLTP
18

Jumlah PLT Surya
204



Persebaran Potensi Energi Surya di Indonesia



Persebaran Potensi Energi Panas Bumi di Indonesia



Main Menu



Hai, Data Enthusiast!

Selamat datang di **RENERGY**, suatu dashboard yang berisi tentang **analisis, visualisasi, dan informasi** terkait energi terbarukan, khususnya **energi panas bumi dan surya**, meliputi **potensi, pengelolaan, distribusi, dan efisiensi**.

Sumber Data:
Kementerian ESDM



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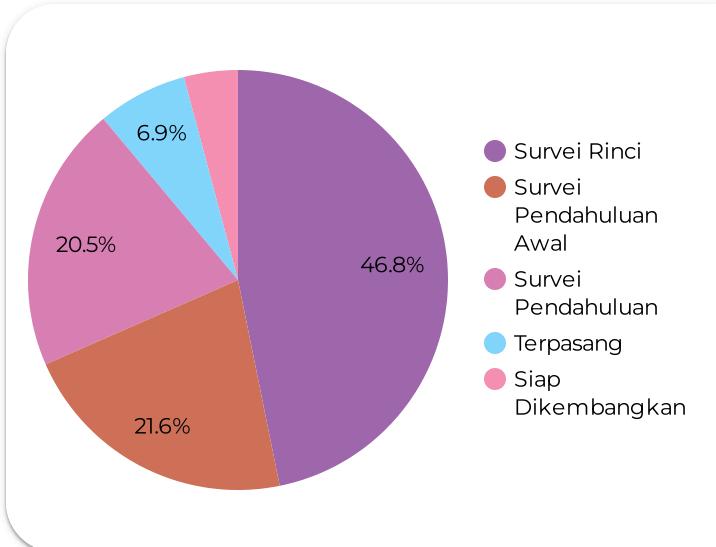
Efficiency

Provinsi

Kabupaten/Kota

Tahun

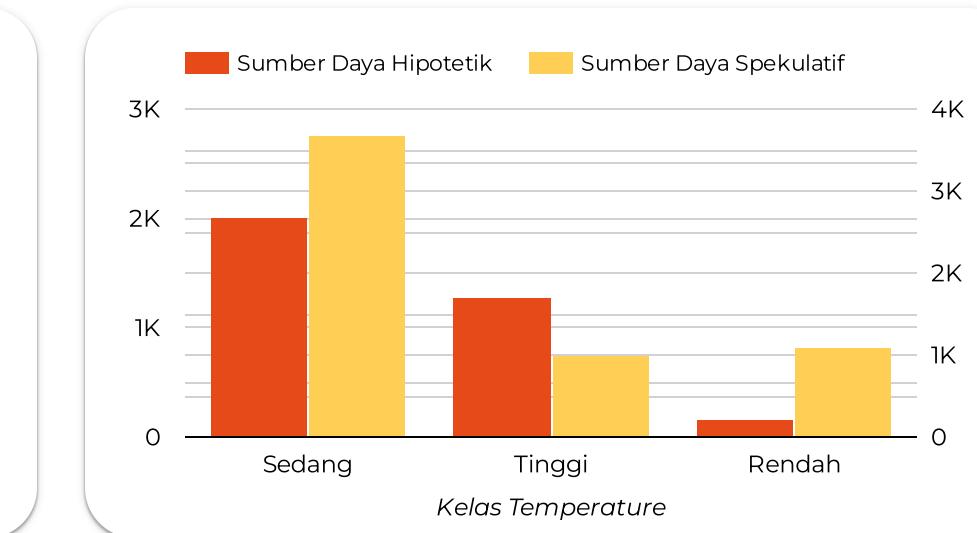
Status Kelas



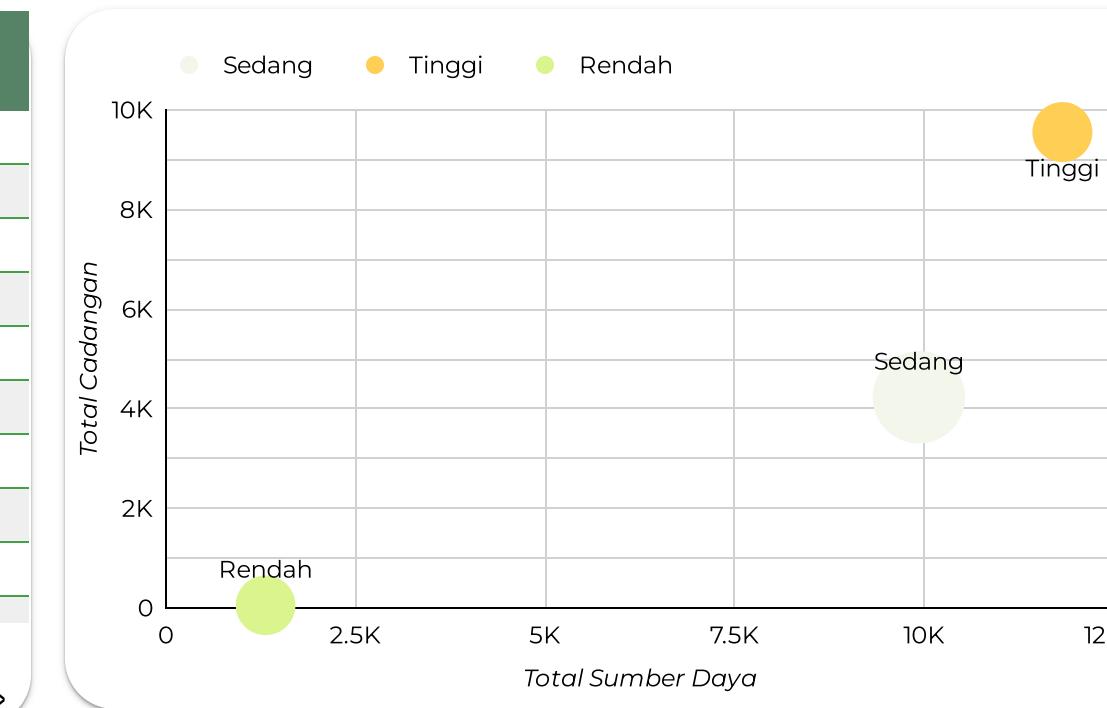
Kelas Temperature



Jenis Sumber Daya



Lokasi Geotermal	Suhu Reservoir (°C)	Total Sumber Daya (MW)	Total Cadangan (MW)
1. Beras Tepu	~150°C	~1000	~500
2. Lau Debukdebuk - Sibavak	~180°C	~1500	~800
3. Jailolo	~160°C	~1200	~600
4. Tompaso	~170°C	~1800	~900
5. Telaga Ranu	~150°C	~1000	~500
6. Lahendong	~160°C	~1200	~600
7. Buyan - Bratan	~180°C	~1500	~800
8. Suban Ayam	~150°C	~1000	~500
9. Seulawah Agam	~160°C	~1200	~600
10. Gunung	~170°C	~1800	~900
Grand total		61.7K	23.1K
			1 - 100 / 361 < >



Overview

Geotherma

Solar

Total Sumber Daya (MW)
23060

Sumatera Utara

Jumlah Lokasi Panas Bumi
361

Total Cadangan (MW)
13,841.9

Kapasitas Terpasang (MW)
2,355.43

Sumber Data:
Kementerian ESDM



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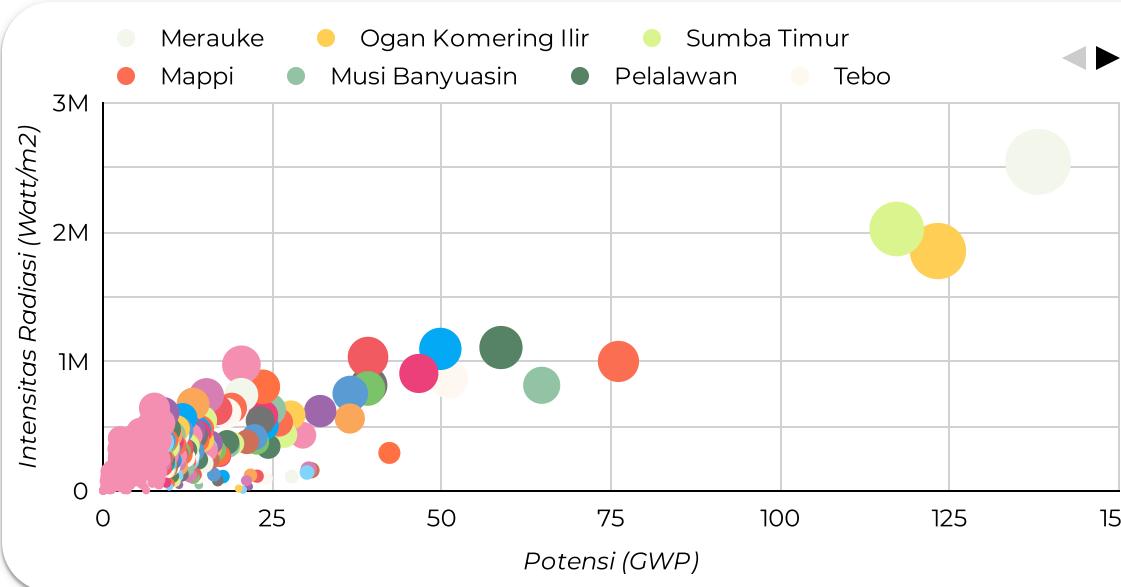
Management

Distribution

Efficiency

Provinsi

Karakterisasi Provinsi: Potensi dan Intensitas Radiasi



Energi (kWh/m²)

700.7K

Intensitas Radiasi (Watt/m²)

107.8M

Kapasitas (kWh/KWP)

570.7K

Produksi Tahunan (TWh/Tahun)

5.1K

Luas (km²)

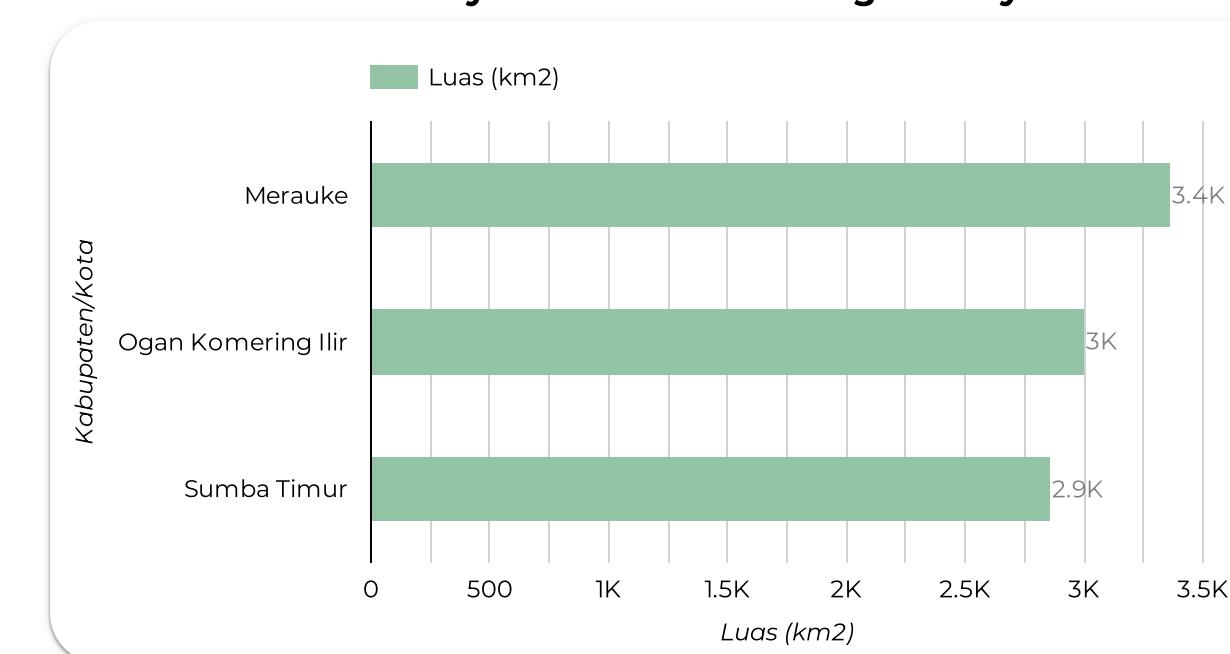
96.3K

Potensi (GWP)

3.9K

Kabupaten/Kota	Potensi (GWP)	Energi (kWh/m ²)	Kapasitas (kWh/K)	Luas (km ²)	Produksi Tahunan	Potensi (GWP)
1. Merauke						
2. Ogan Komering Ilir						
3. Sumba Timur						
4. Mappi						
5. Musi Banyuasin						
6. Pelalawan						
Grand total	3.9K	700,684....	570,698.01	96,325.39	5,054	3,949.34

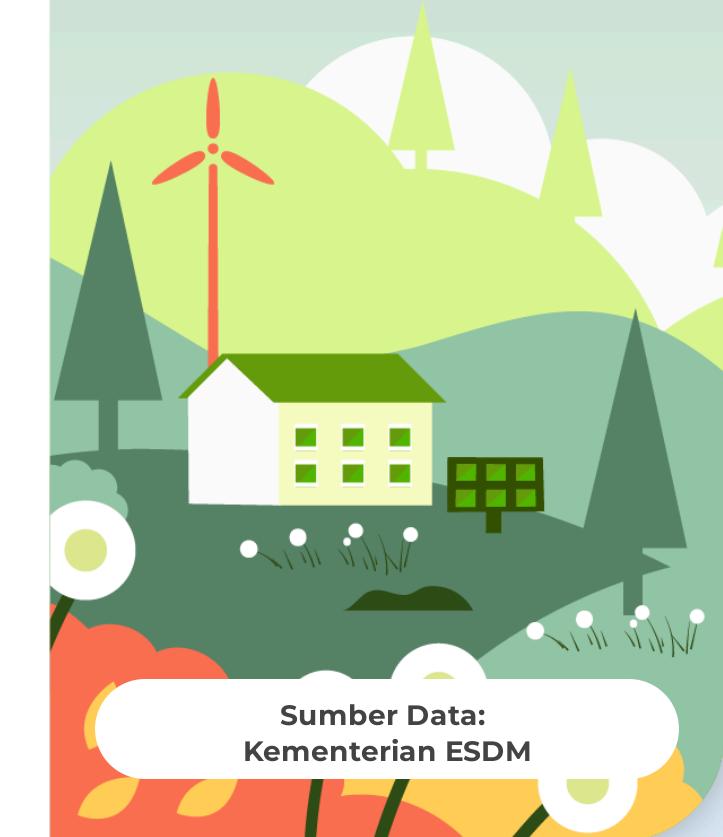
Luas Wilayah Potensi Pembangkit Surya



Overview

Geotherma

Solar



Sumber Data:
Kementerian ESDM



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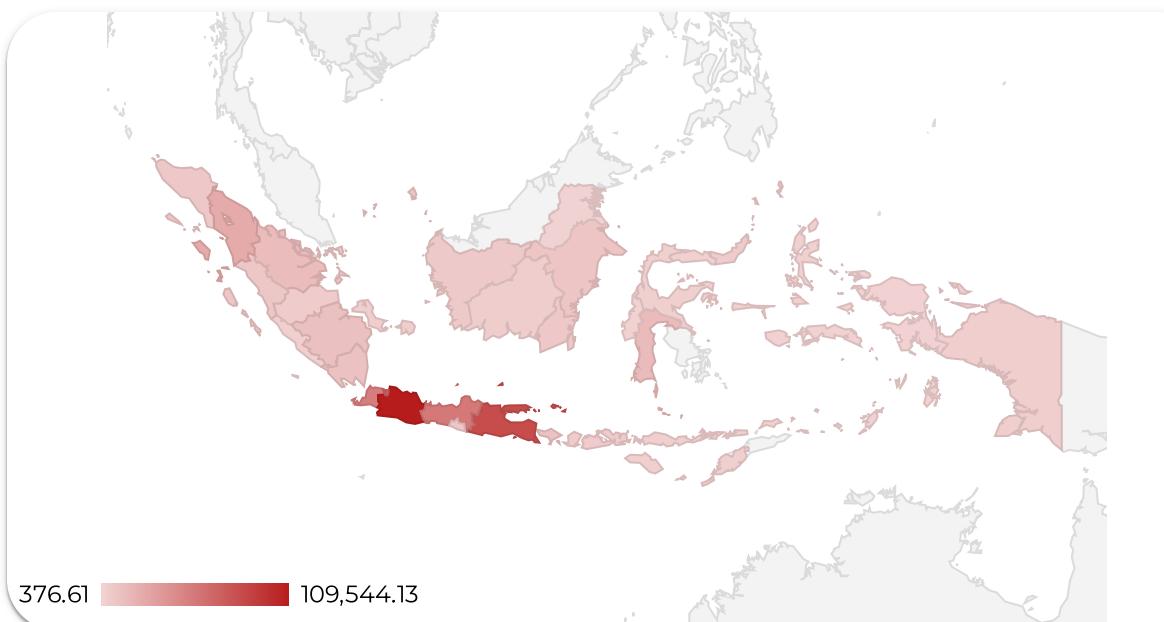
Distribution

Efficiency

Tenaga Listrik yang Dibangkitkan (GWh)



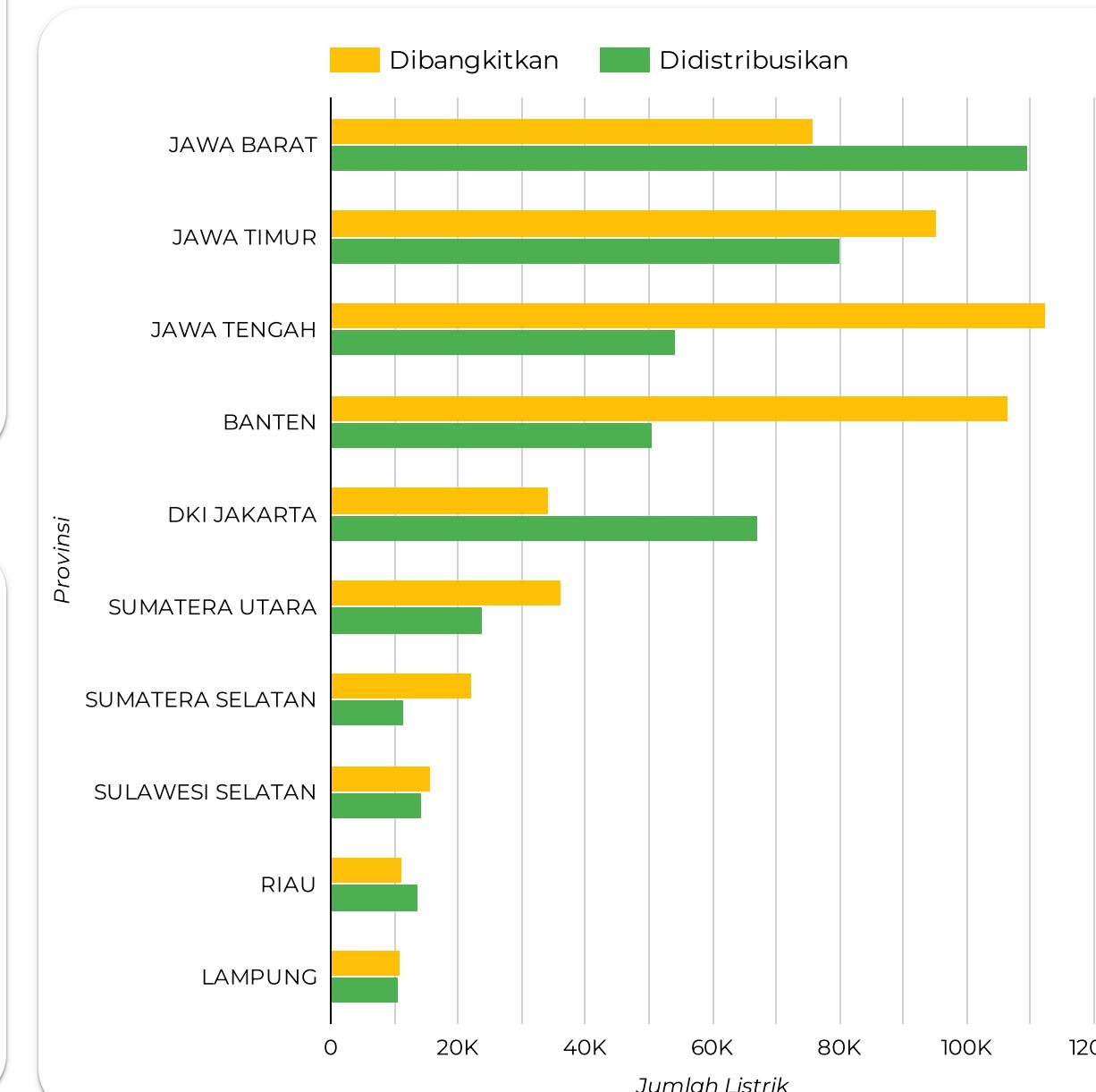
Tenaga Listrik yang Didistribusikan (GWh)



Provinsi

Tahun

Perbandingan Produksi dan Distribusi Listrik



Management

Jumlah Listrik Dibangkitkan
616.5K

Jumlah Listrik Didistribusikan
531.4K

Sumber Data:
Badan Pusat Statistik



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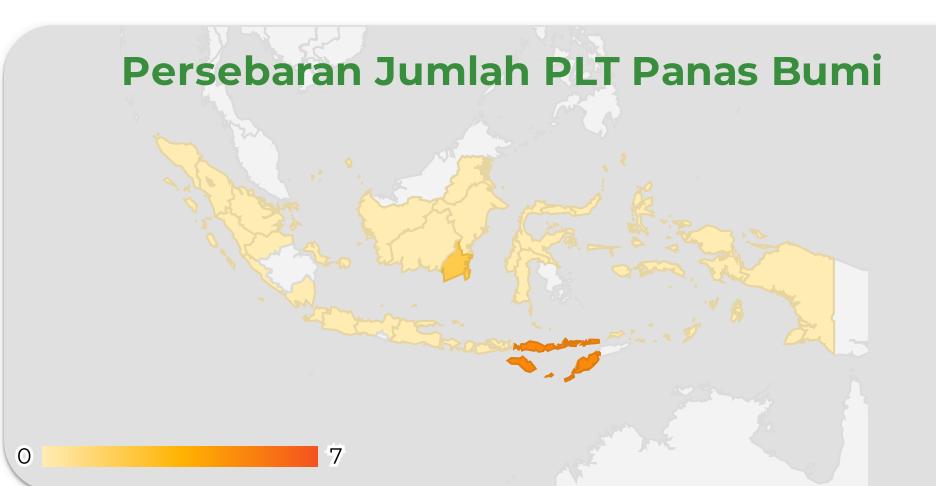
Distribution

Efficiency

Persebaran Jumlah PLT Surya

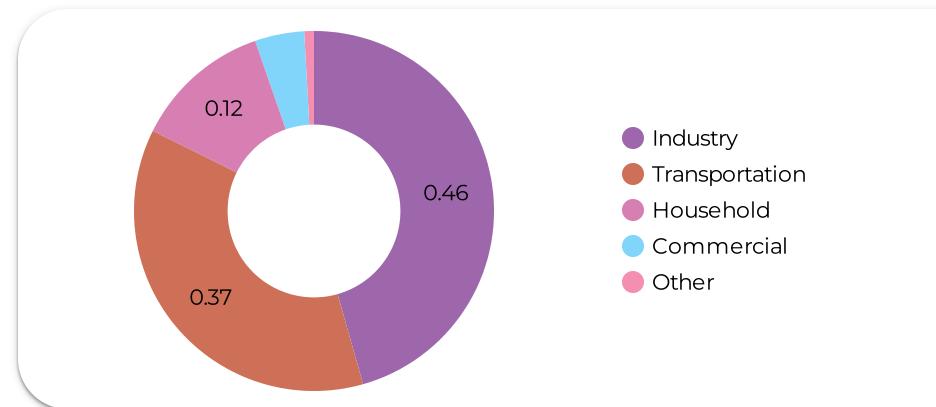


Persebaran Jumlah PLT Panas Bumi

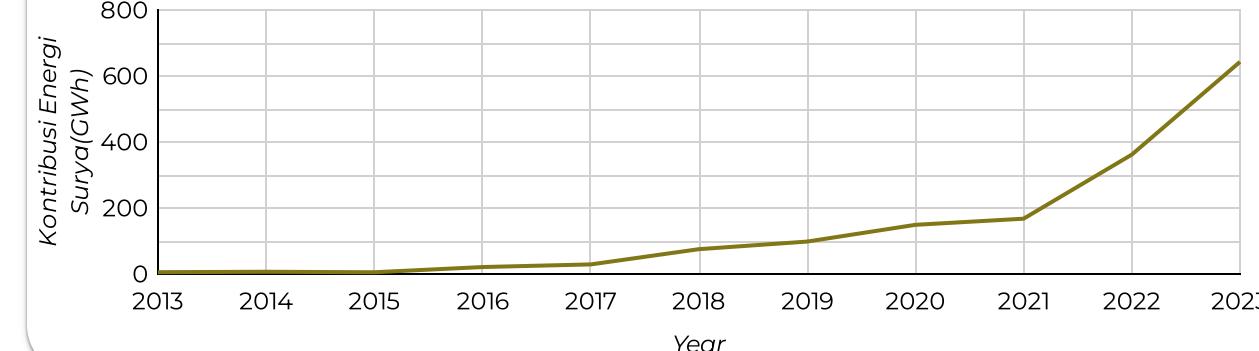


Sumber Data: Statistik PLN 2022

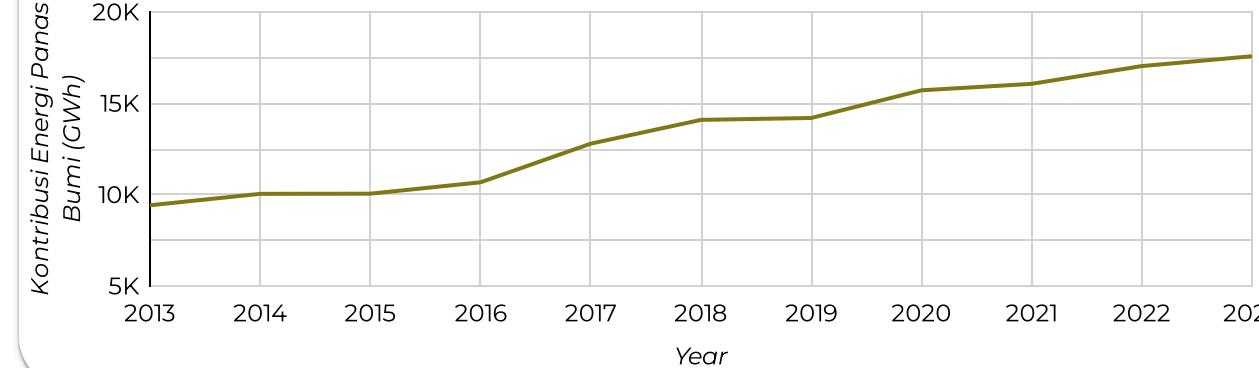
Konsumsi Energi berdasarkan Jenis



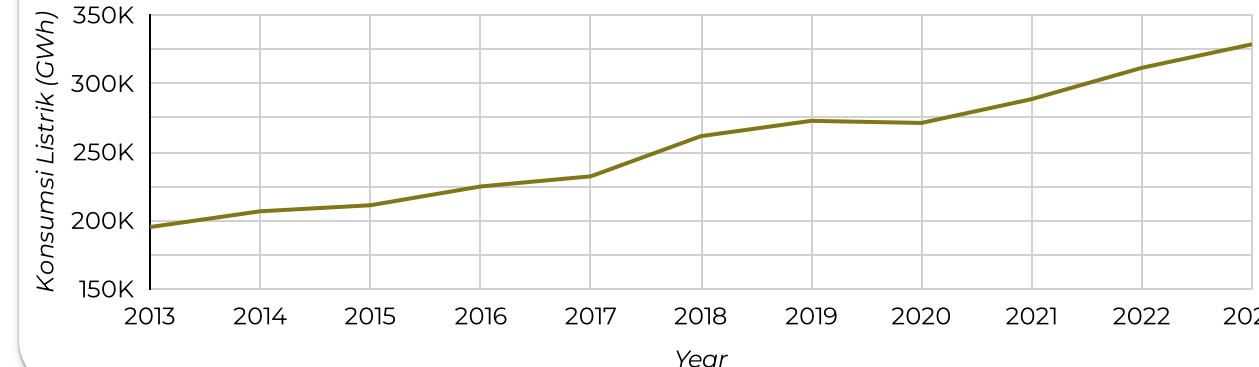
Kontribusi Energi Surya(GWh)



Kontribusi Energi Panas Bumi (GWh)



Konsumsi Listrik (GWh)



Distribution

Kontribusi Energi Surya
0.2%

Kontribusi Energi Panas Bumi
5.35%

Prakiraan
Listrik Hasil
Tenaga Surya*
↓549,46 GWh

*Double Exponential Smoothing [alpha= 1, beta= 0,1]

Prakiraan
Listrik Hasil Tenaga
Geothermal*
↓17.320,34 GWh

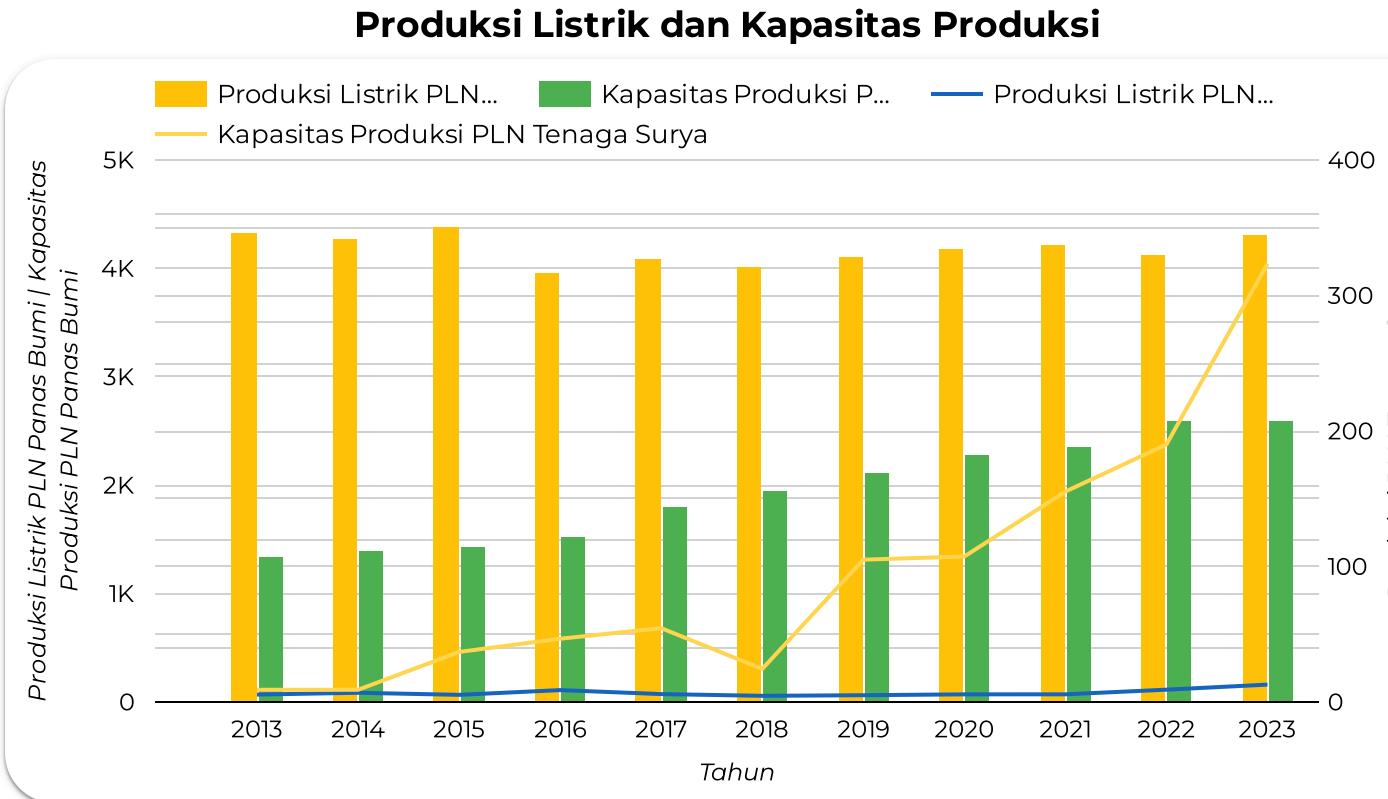
* Double Exponential Smoothing [alpha= 1, beta= 0,1]

Sumber Data:
Kementerian ESDM

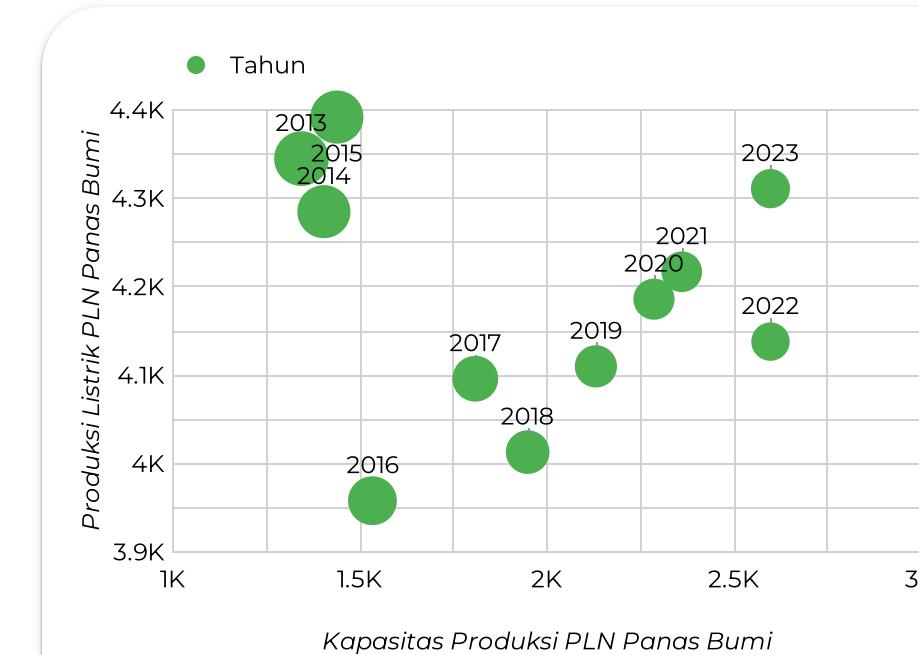


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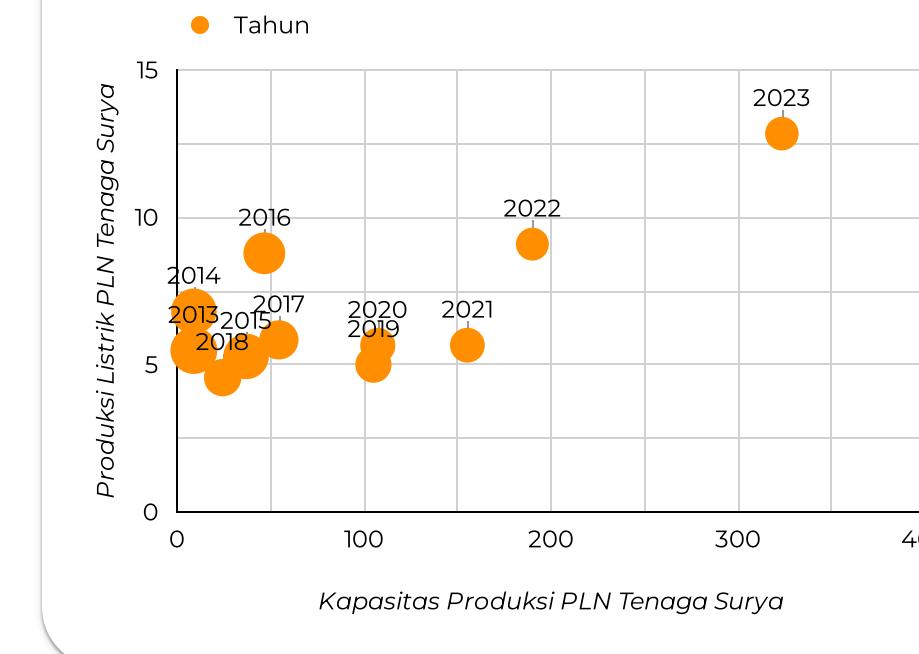
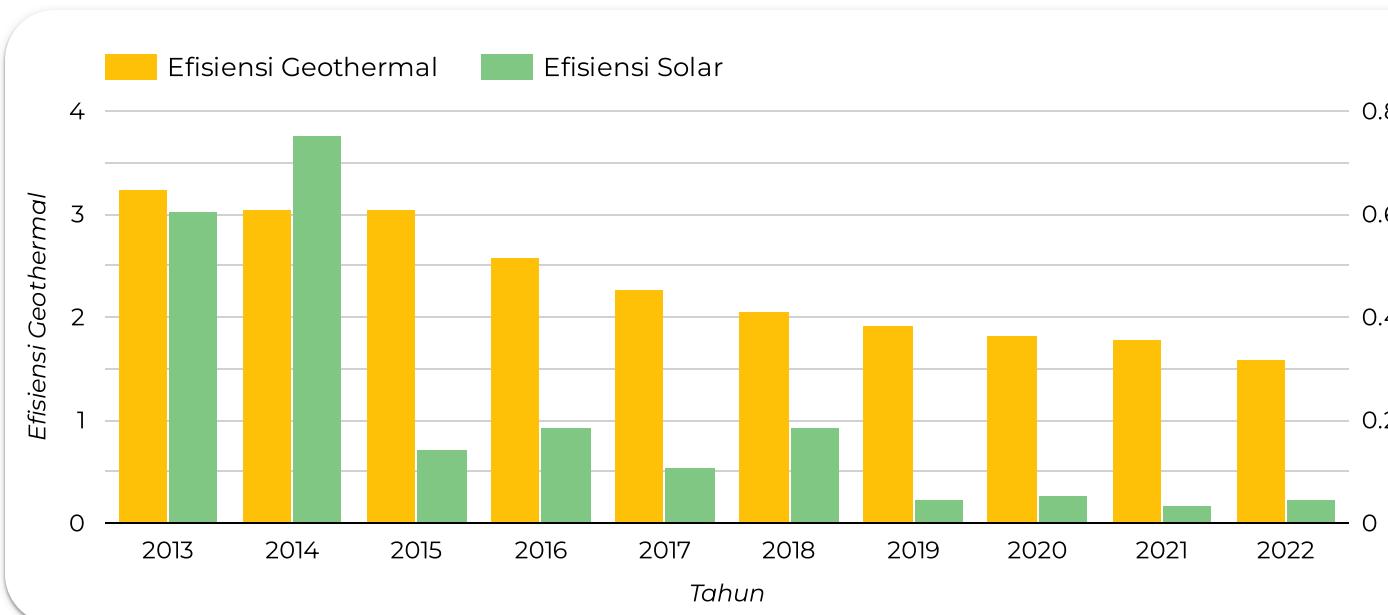
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Korelasi Antara Kapasitas Terpasang dan Produksi Energi



Efisiensi



Efficiency

Tahun

2,013

2,023

Produksi Listrik PLN Panas Bumi
46.05K

Kapasitas Produksi PLN Panas Bumi
21.45K

Produksi Listrik PLN Tenaga Surya
74.99

Kapasitas Produksi PLN Tenaga Surya
1.06K

