

Turkey- Taiwan Business Council Meeting 6th.

YALÇIN KIROĞLU

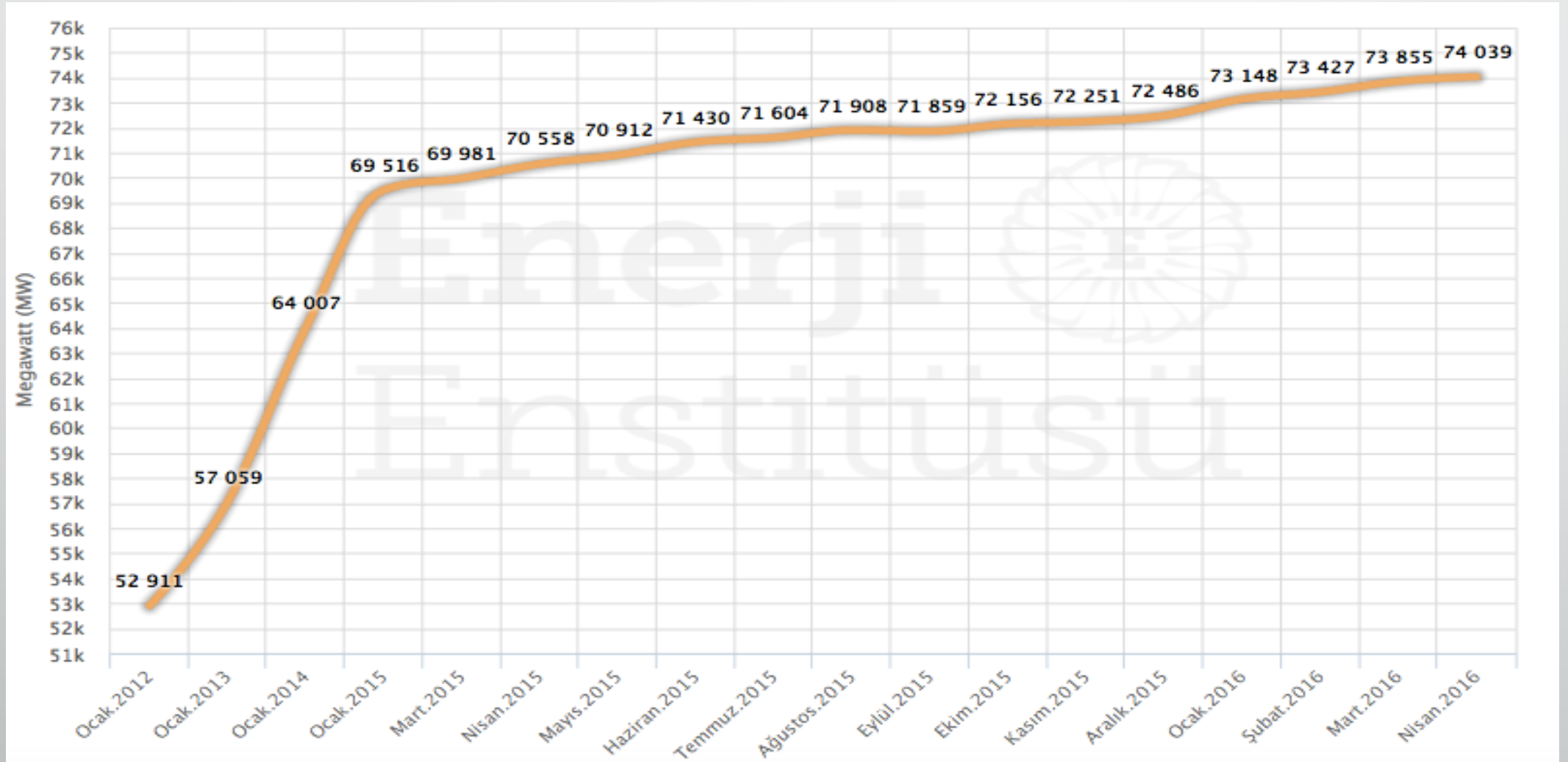
Vice President, DEİK Energy Council

President , Unlicensed Electricity Generation Association

CEO , Mars Holding



Turkey Total Electric Capacity – 74.000 MW

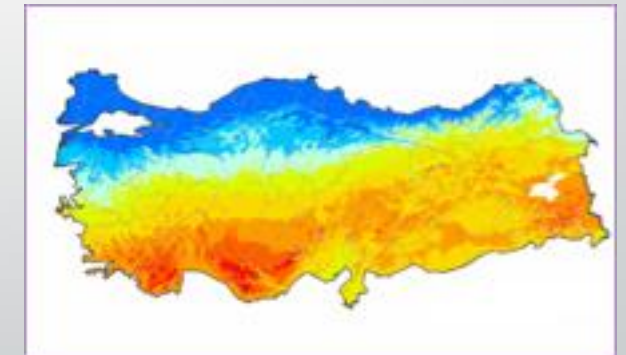
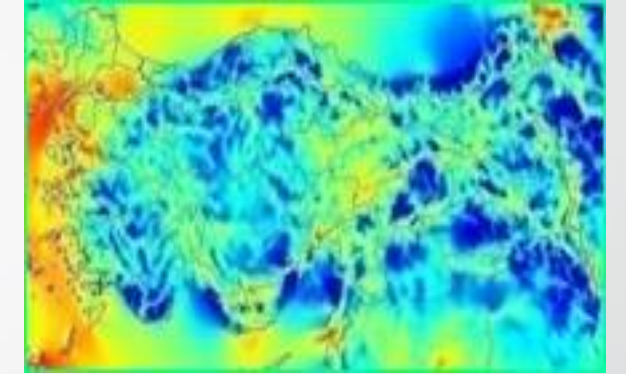


Renewable Energy In Turkey



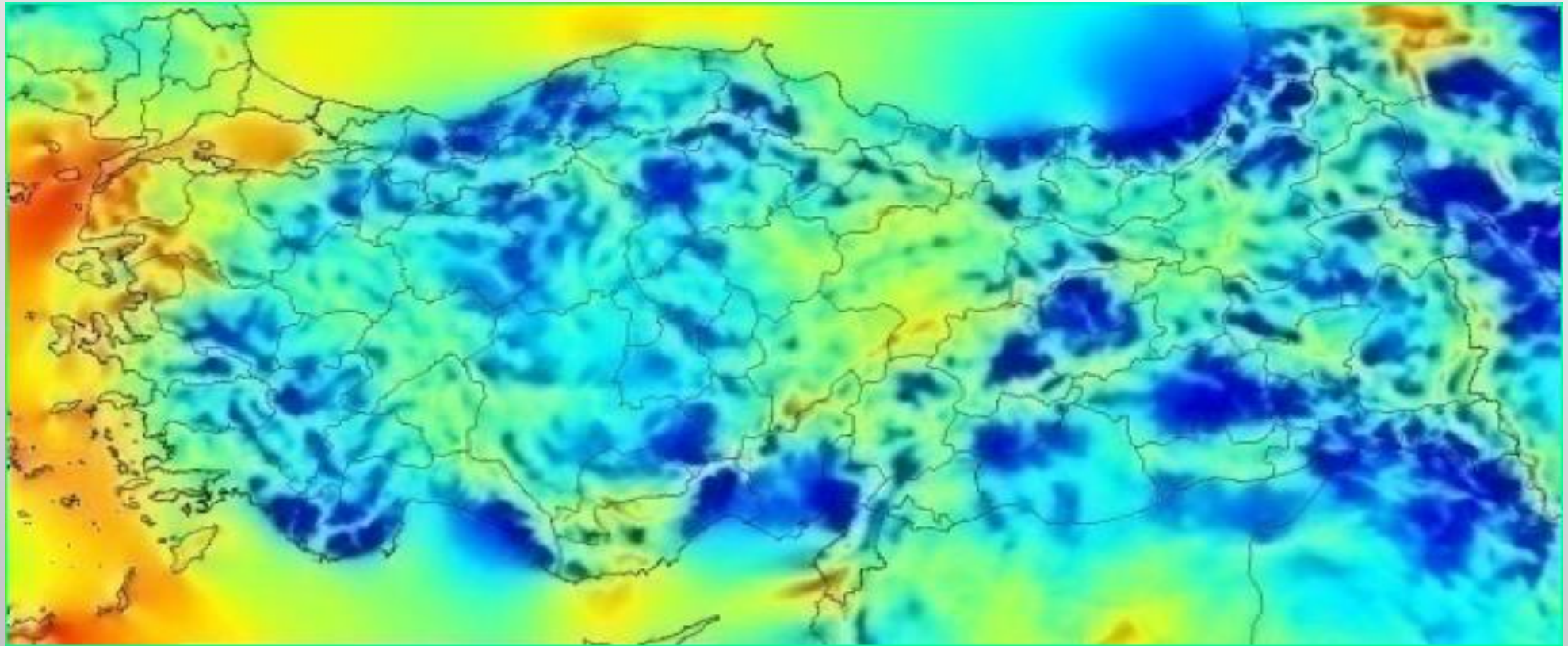
Potential of Renewable Energy In Turkey

Renw	Install	2023 Target	Add
Hydo	25.000 MW	34.000 MW	9.000 MW
Wind	4.500 MW	20.000 MW	15.500 MW
PV	300 MW	10.000 MW	19.700 MW
Geothermal	400 MW	1.000 MW	600 MW
Biomass	275 MW	1.000 MW	725 MW

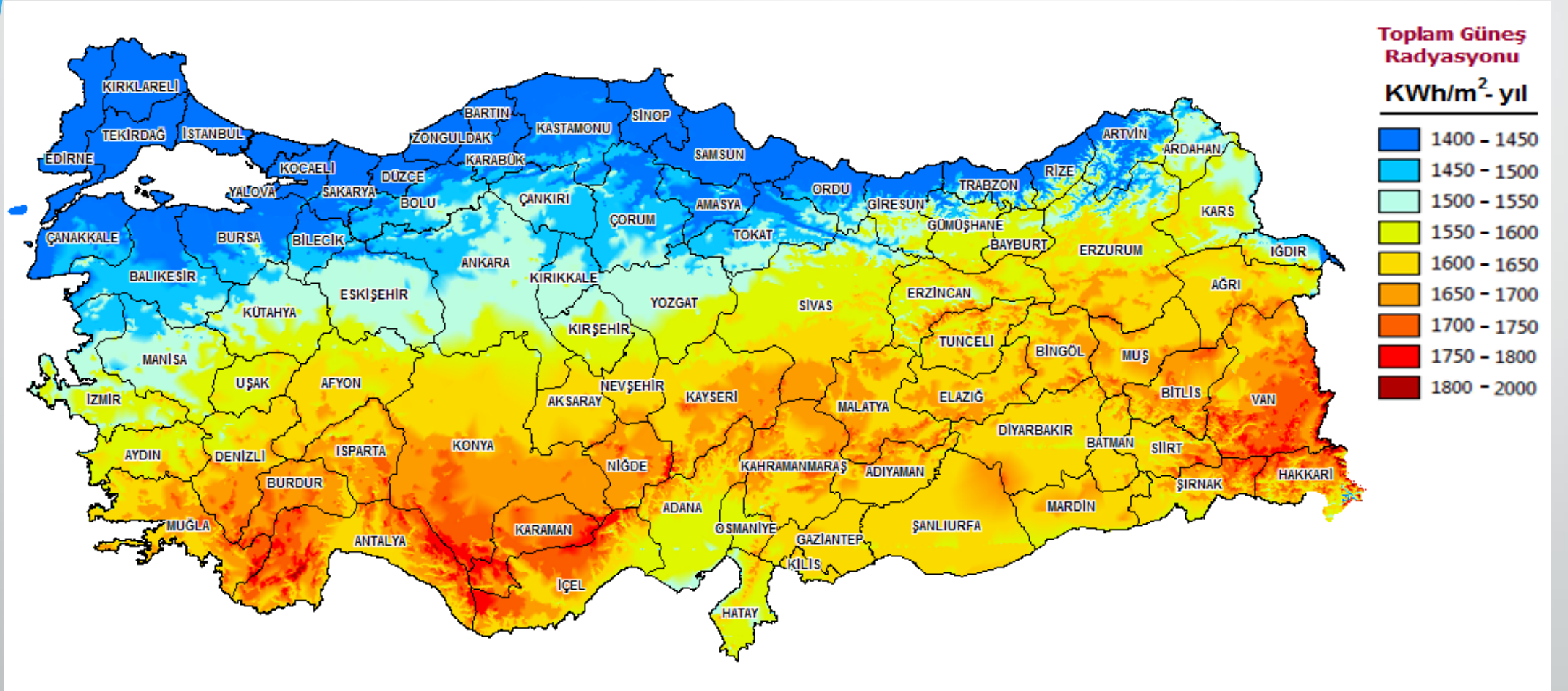


Potential Wind Energy In Turkey

- Wind Potential Capacity **48.000 MW**



Potential Solar Energy In Turkey



Potential Solar Energy In Turkey

Average Global Solar Radiation: **1.500 kWh/m²-year**

- **Installed photovoltaic capacity:**

Estimated total installed capacity **300 MW.**

These products are used viewing in currently; forest fires, roads, communication towers and meteorological stations

- **Equipment Production Capacity**

PV Module Production Capacity is approximately **150 MW/year.--- 600 MW/Year**

Solar Collector in Turkey

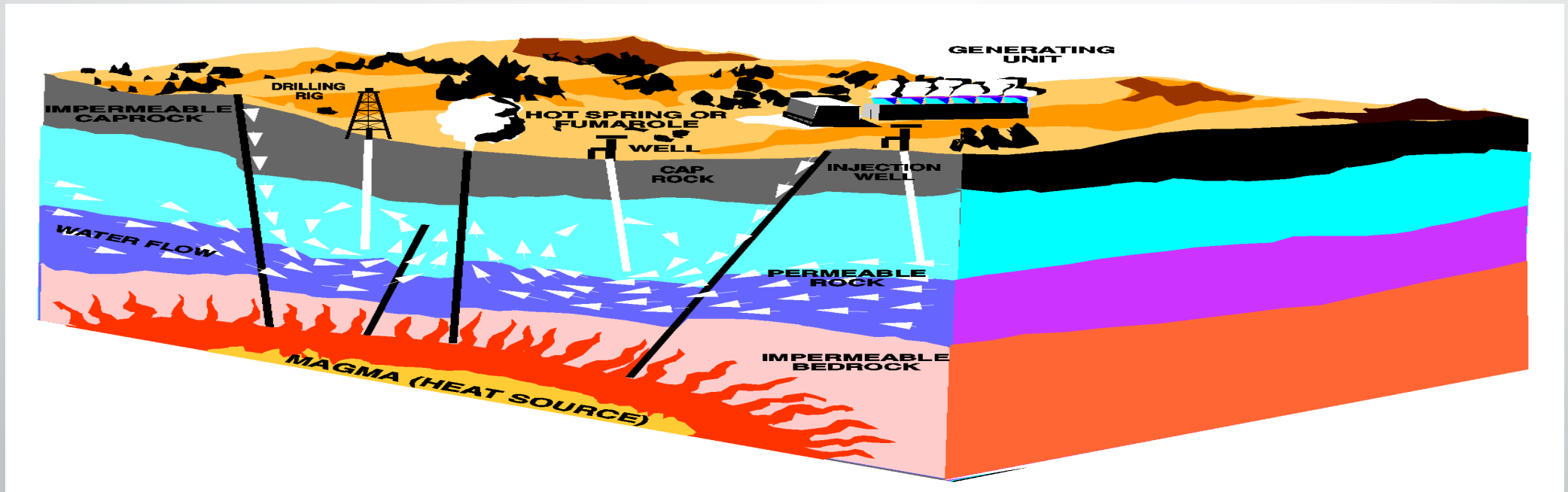


Turkey is one of the world's largest manufacturers of solar collectors

- Flat-plate solar collector's production capacity is approximately 0.5-1 million square in a year
- Flat-plate solar collector which used 18. million m²

Geothermal Energy In Turkey

- Turkey is ranked 1 st in Europe and 7 th in the world with geothermal capacity of Turkey is 31,500 MWt % 77.9 of this potential is in Western Anatolia.
- Geothermal Electricity Potential: 2000 MWe.
- 55% of the geothermal areas in Turkey are suitable for heating practices; 90,000 households in 21 provinces/regions.



Biomass Energy In Turkey

- Biomass sources; agricultural, forest, animal and urban wastes
- Biomass potential is around 8,6 million TEP of which 6 million TEPs are used for heating purposes.
- Total amount of wastes; forest 4,8 million tonnes and agricultural 15 million tones
- 1.5 - 2 MTOE biogas potential.



Unlicensed Electricity Generation In Turkey



Total Grid Connection Application In Turkey_ 2060325

Total Application	20.853
Approved	7.225
Non- approved	9.612
In Progress	4.020

Approved Application	
Wind	432
Solar	6.606
Bio	46
Kojen	56
Hibrit (RES+GES)	6
Hidro *	85

Approved Application Capacity (kW)	
Wind	263.623
Solar	3.832.477
Bio	10.003
Kojen	84.384
Hibrit	1.846
Hidro *	26.244
Total	4.218.577

Turkey- Taiwan Renewable Energy Cooperation

➤ **Product and Solution Sales**

Led Amp., Hydro, Wind Turbine, PV Panel, cell and Invertor. etc

➤ **Production opp. in TURKEY**

PV Panel, Cell, Invertor, Wind, Hydro Turbine, LED Amp, extra feed-in tariff for local prod.

➤ **Invesment in Turkey Energy Sector**

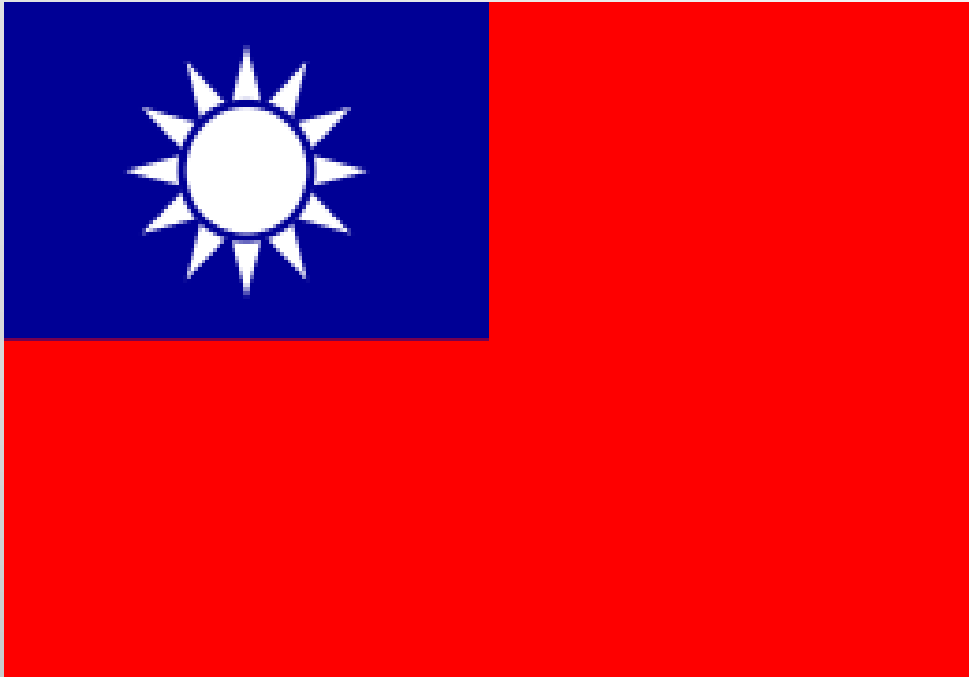
110 Billion dolar invesment for 2023 target.

➤ **Turkey&Taiwan Cooperation for diff. Country Project**

Africa, Middle East



Turkey- Taiwan Energy Cooperation



THANK YOU

Contact

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