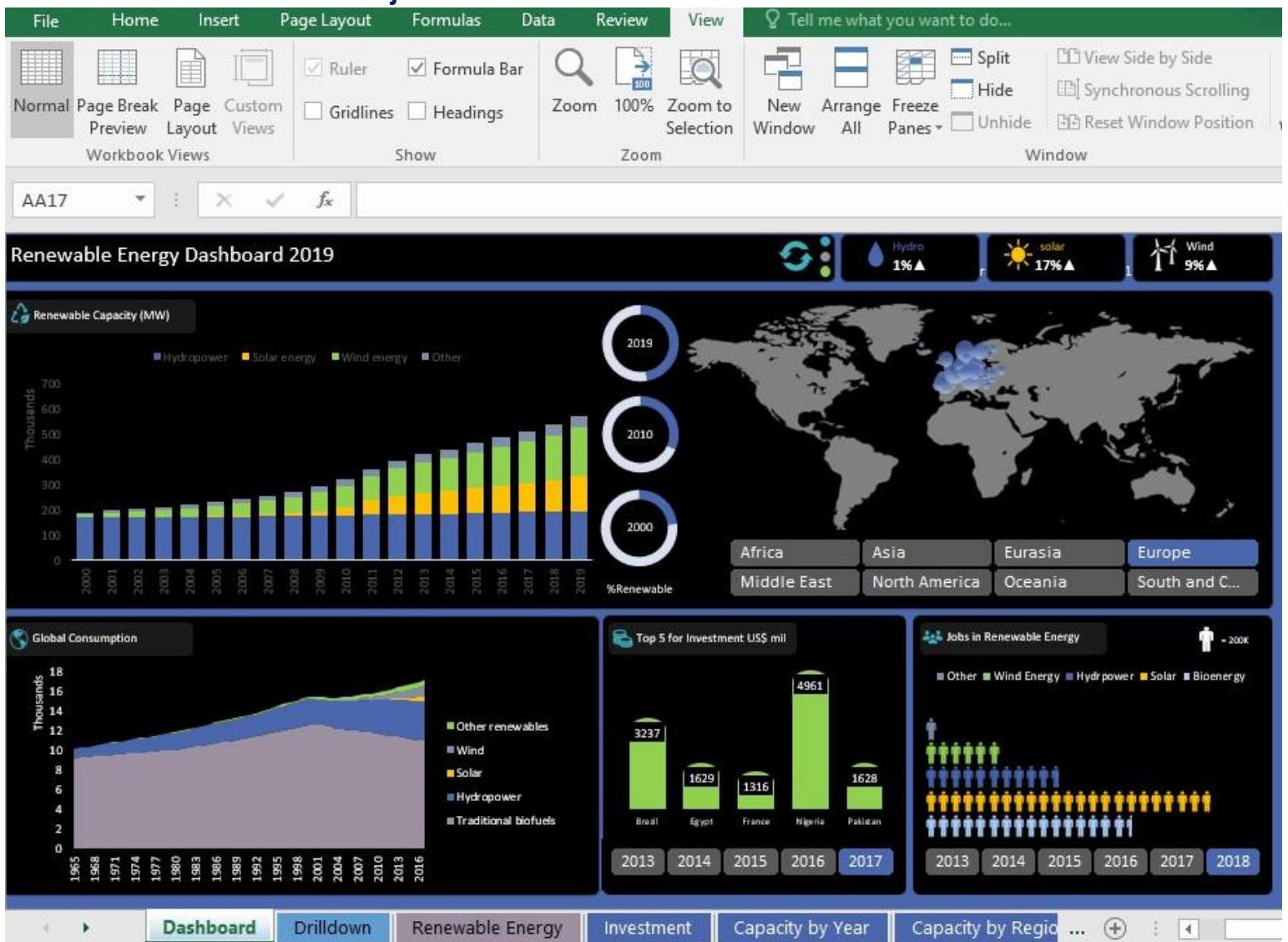


# Project-2: Renewable Energy Dashboard

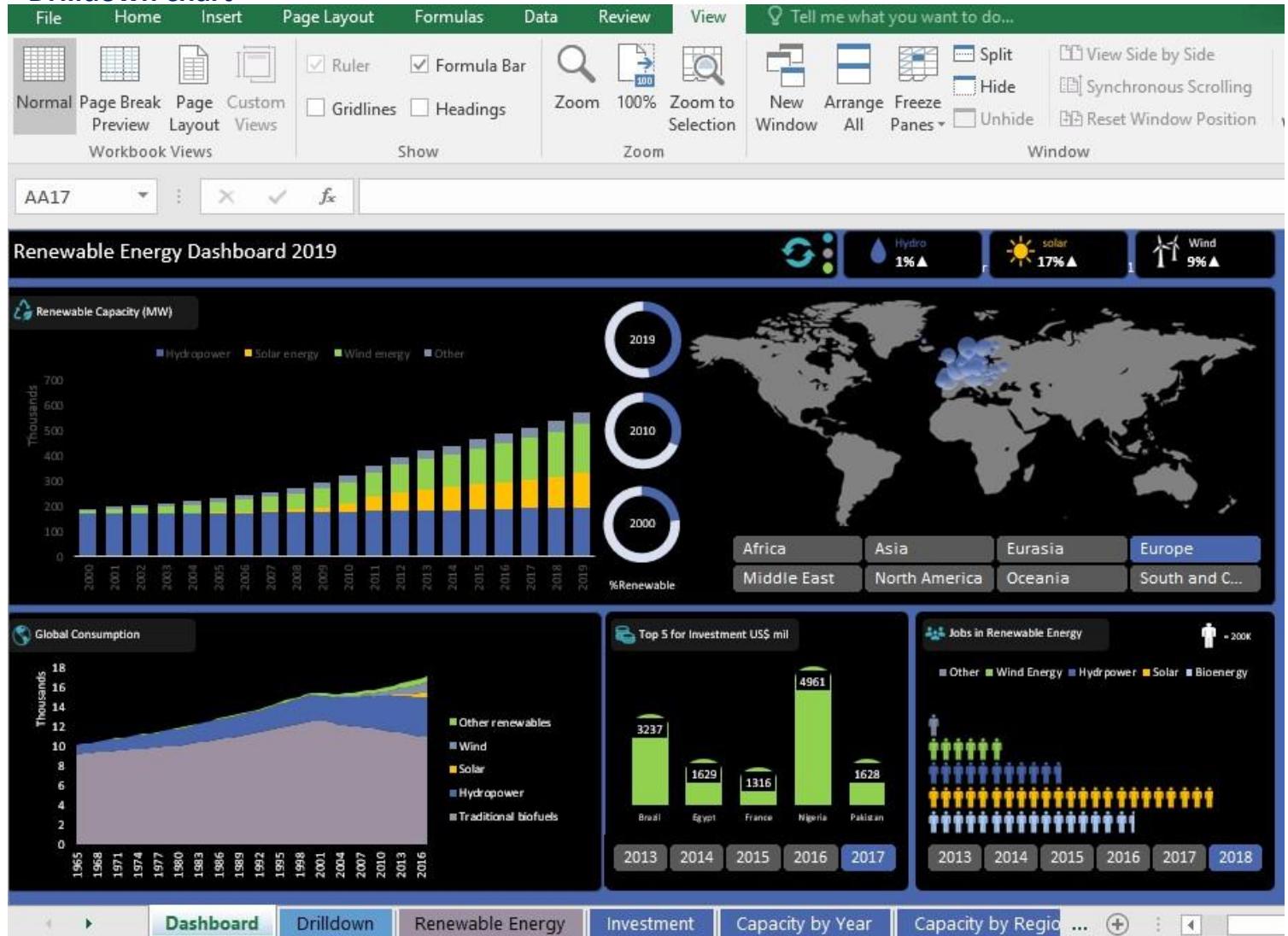
## Dashboard

- ✓ This Dashboard contains visualization about...
- ✓ Renewable capacity(MW) by different Region
- ✓ Global Consumption of Renewable Energy
- ✓ Top 5 Countries for investment in different years
- ✓ Jobs in Renewable Energy in different years
- ✓ % of Renewable and non-renewable energy
- ✓ Capacity Trends by Top 5 Countries in Region
- ✓ Energy generation of Renewable & Non-Renewable Energy Region-wise.

## Screenshots of Project - 2



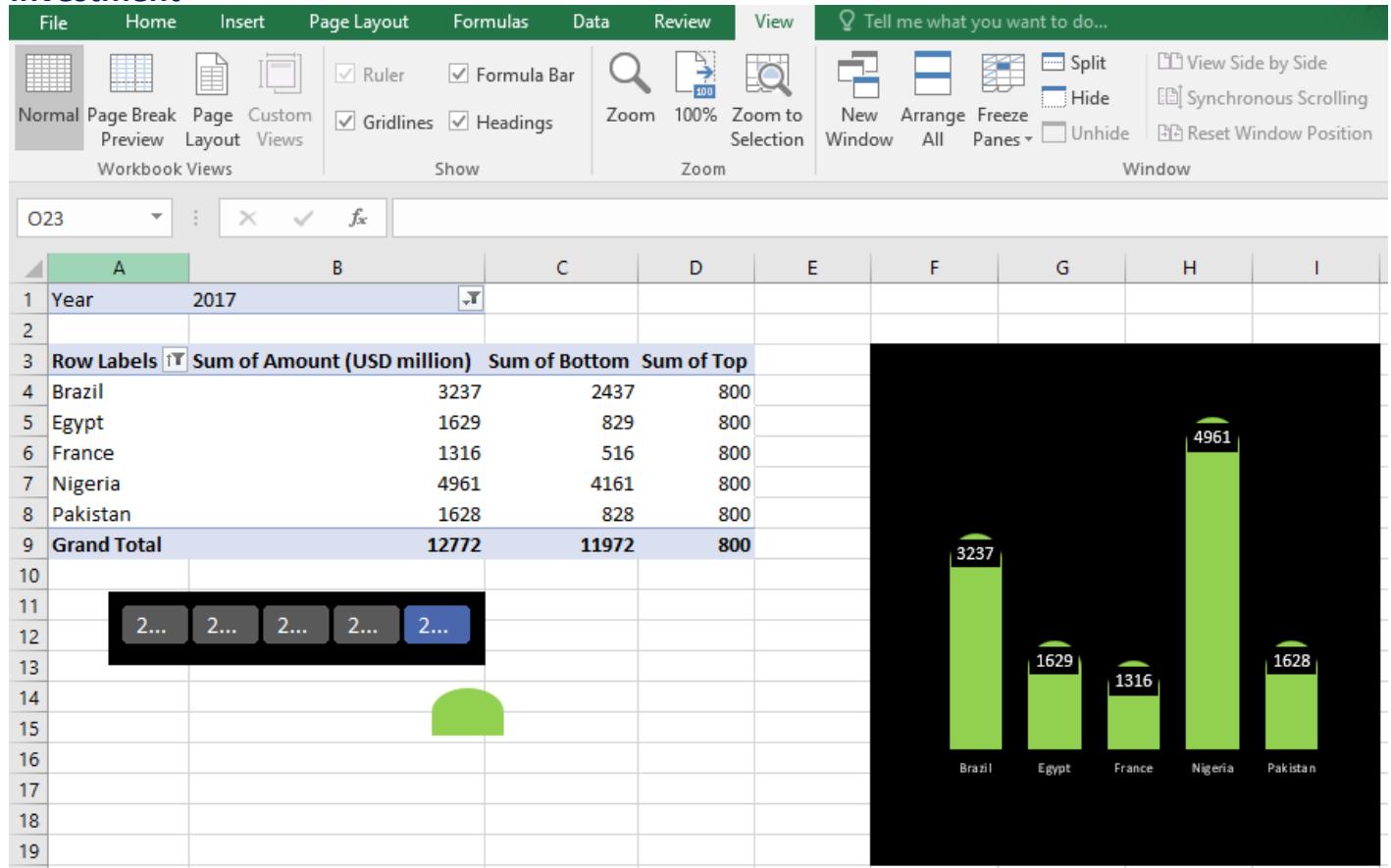
## Drilldown chart



Renewable Energy Capacity and Generation

Region	Country	ISO.Code	RE or Non-RE	Main Technology	Technologies	Year	Electricity Capacity (Mw)	Electricity Generation (Gw)
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2000	5630.01	24954.17
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2001	5626.5	26187.5
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2002	6062.01	27345.3
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2003	6184.24	28927.1
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2004	6476.24	30633.6
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2005	7215.64	32970
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2006	7656.88	34704.313
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2007	8181.4	36724.781
Africa	Algeria	DZA	Non-Renewable	Fossil fuels	Fossil fuels	2008	8232.27	39703.234

## Investment



## Capacity by years

The screenshot shows a Microsoft Excel spreadsheet with data on electricity capacity in MW by year and technology. The data is presented in a table with columns for Year, Hydropower, Solar energy, Wind energy, Other, and Grand Total. The "Wind energy" column is highlighted with a green border.

	A	B	C	D	E	F
2						
3	Electricity Capacity in MW	Main Technology				
4	Year	Hydropower	Solar energy	Wind energy	Other	Grand Total
5	2000	168,665	199	12,731	9,161	190,756
6	2001	168,639	299	17,393	10,086	196,418
7	2002	169,194	385	23,288	10,735	203,602
8	2003	169,942	624	28,153	12,527	211,245
9	2004	171,412	1,335	34,320	14,025	221,092
10	2005	173,476	2,315	40,684	17,341	233,816
11	2006	173,924	3,277	47,919	19,563	244,682
12	2007	175,602	5,050	56,341	19,923	256,915
13	2008	177,062	10,518	64,055	21,494	273,129
14	2009	177,987	17,118	75,808	24,634	295,546
15	2010	179,489	30,856	84,920	26,901	322,167
16	2011	181,243	54,719	94,714	30,261	360,937
17	2012	182,508	73,801	107,191	31,781	395,281

## Capacity by Region

Excel ribbon: File, Home, Insert, Page Layout, Formulas, Data, Review, View, Tell me what you want to do...

Normal Page Break Preview Layout Views Workbook Views

Ruler Formula Bar Gridlines Headings

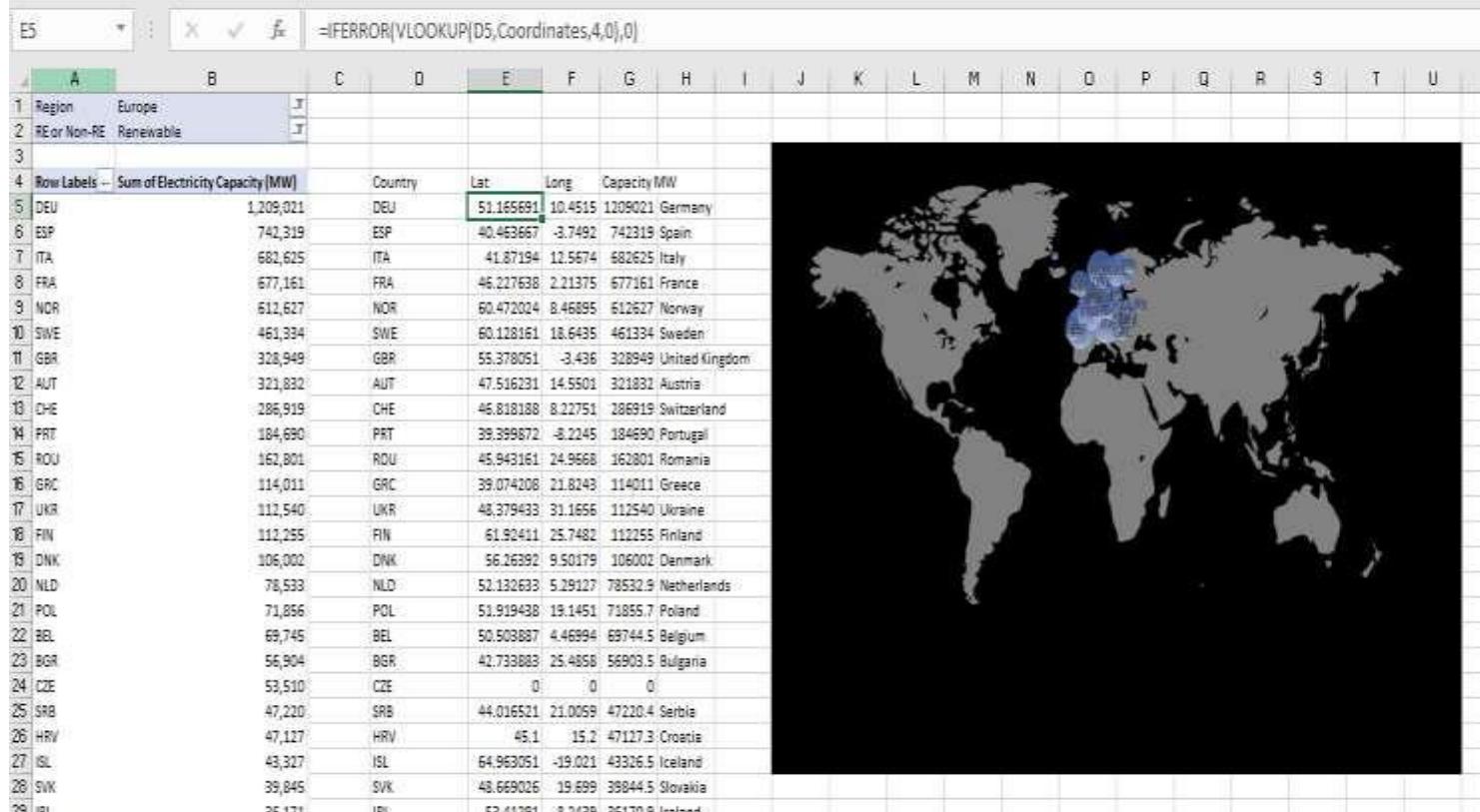
Zoom 100% Zoom to Selection

New Window Arrange All Freeze Panes Hide Unhide

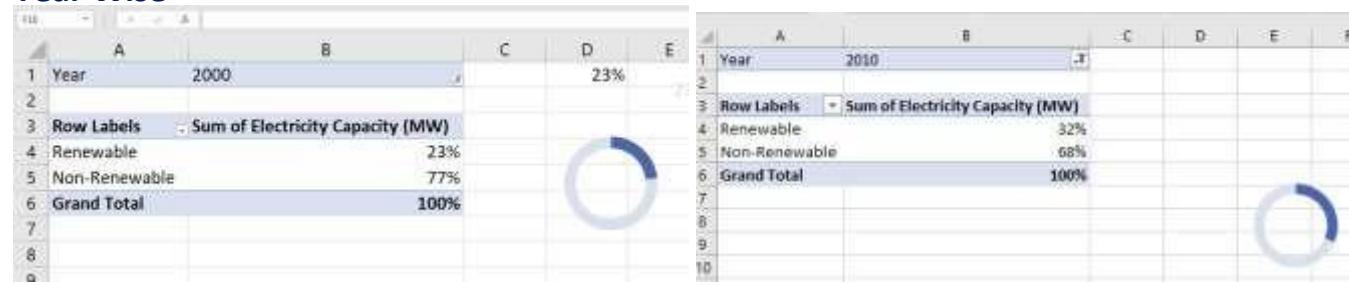
C3

	A	B	C	D	E	F
1	Region	Europe				
2	RE or Non-RE	Renewable				
3						
4	Row Labels	Sum of Electricity Capacity (MW)		Country	Capacity MW	
5	Albania	32,795		Albania	32795.4	
6	Andorra	867		Andorra	866.616	
7	Austria	321,832		Austria	321832.183	
8	Belarus	2,576		Belarus	2575.628	
9	Belgium	69,745		Belgium	69744.51	
10	Bosnia and Herzegovina	33,004		Bosnia and Herz.	33004.373	
11	Bulgaria	56,904		Bulgaria	56903.521	
12	Croatia	47,127		Croatia	47127.305	
13	Cyprus	2,225		Cyprus	2225.388	
14	Czechia	53,510		Czechia	53510.231	
15	Denmark	106,002		Denmark	106002.028	
16	Estonia	5,721		Estonia	5721.42	
17	Faroe Islands	859		Faroe Islands	859.34	
18	Finland	112,255		Finland	112254.714	
19	France	677,161		France	677161.322	
20	Germany	1,209,021		Germany	1209020.6	
21	Greece	114,011		Greece	114010.8	
22	Hungary	14,588		Hungary	14588.132	
23	Iceland	43,327		Iceland	43326.531	

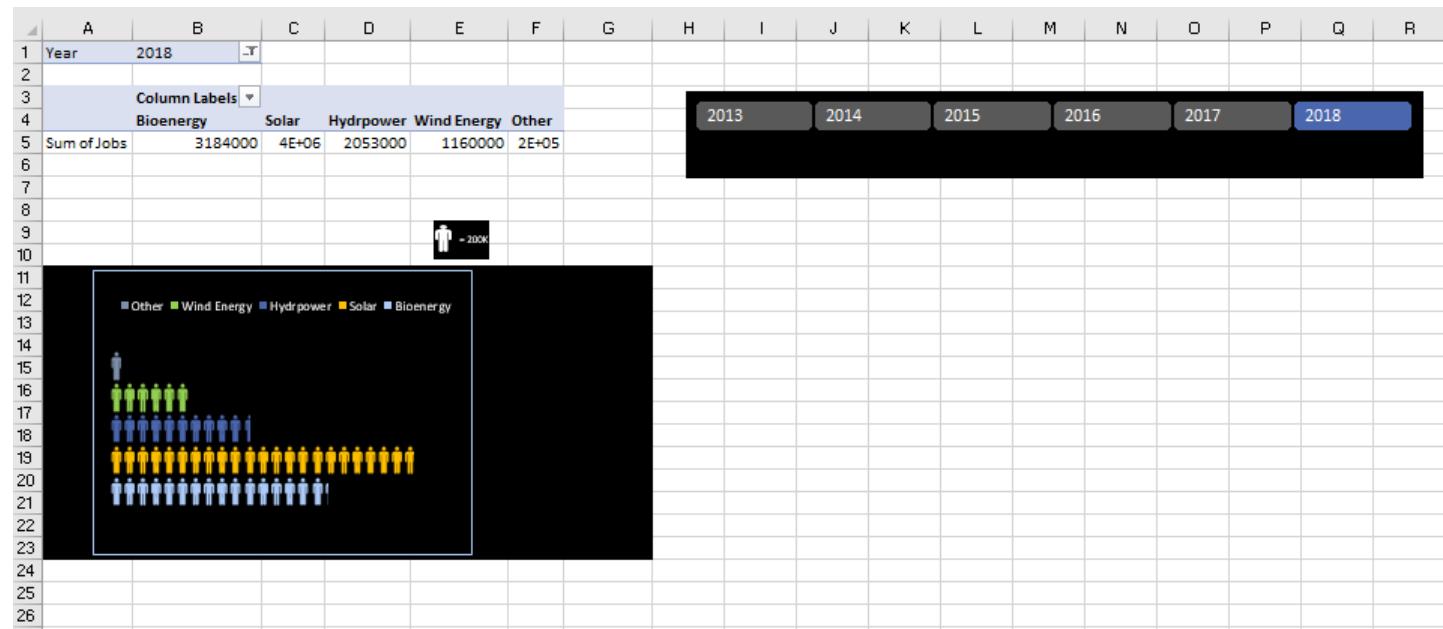
## Capacity by Region with Latitude and Longitude



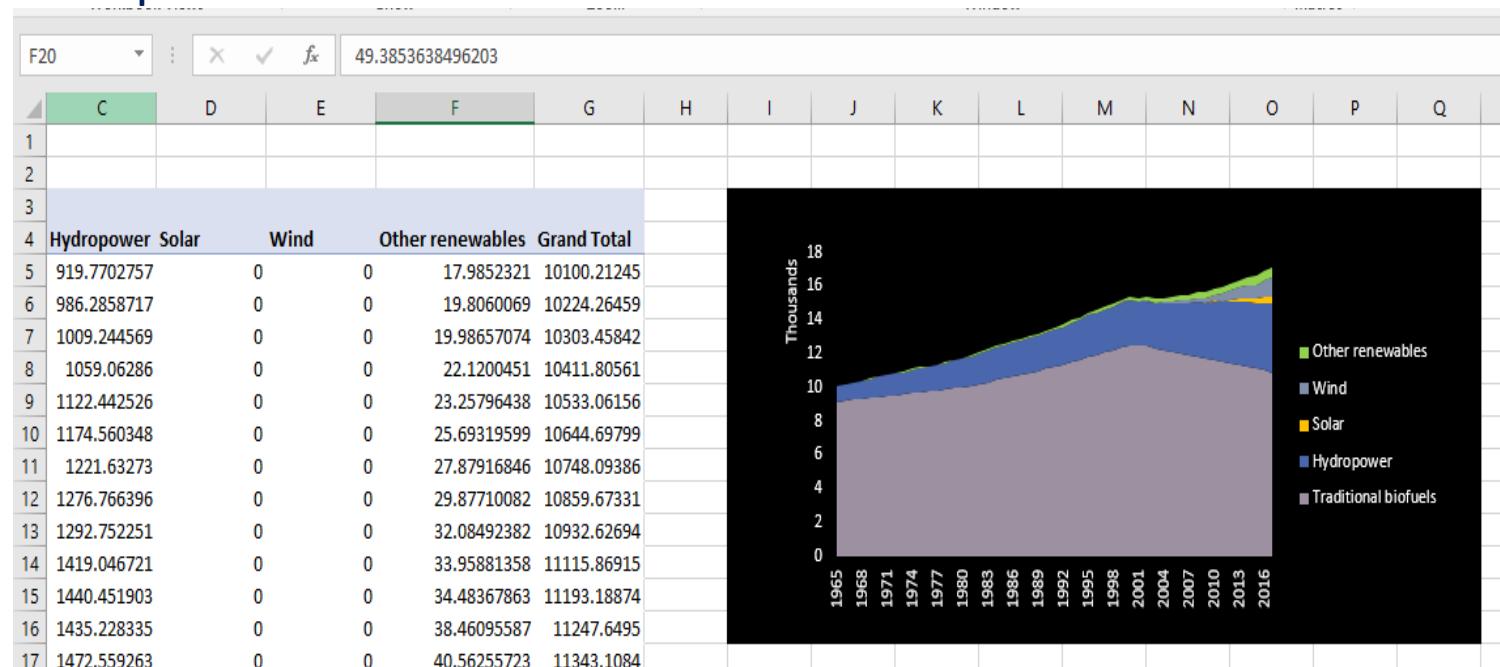
## Year Wise



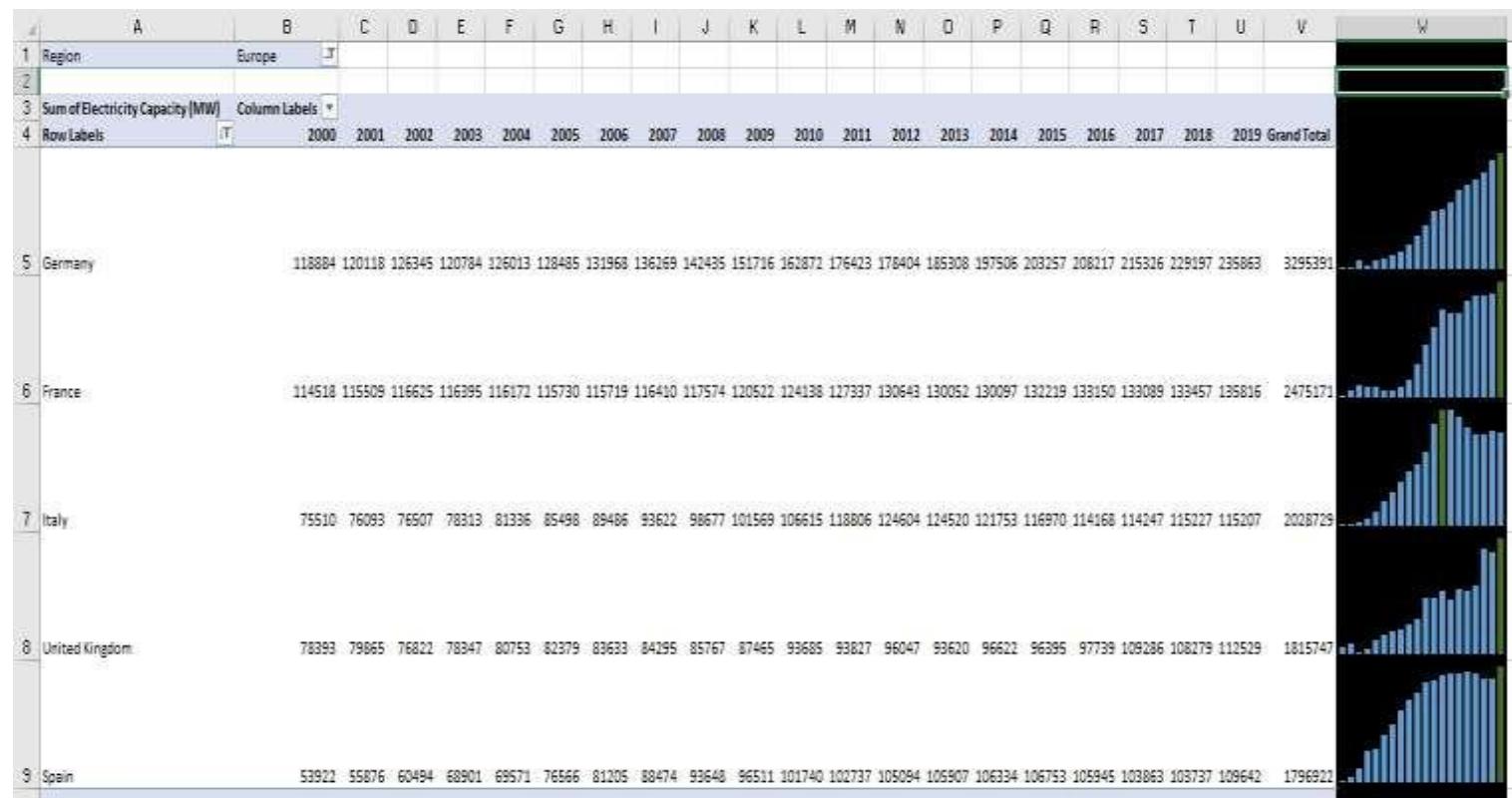
## Jobs



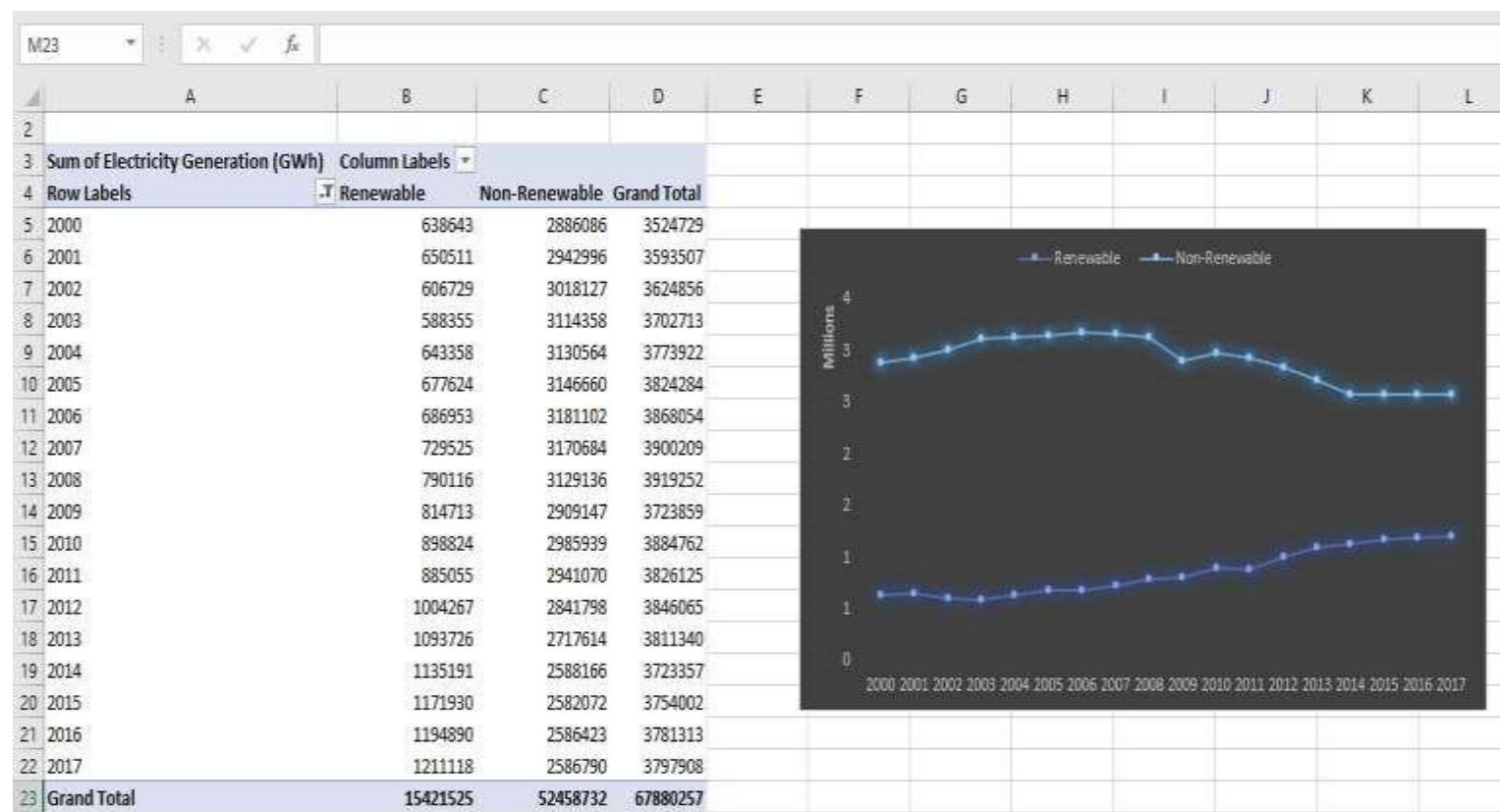
## Consumption



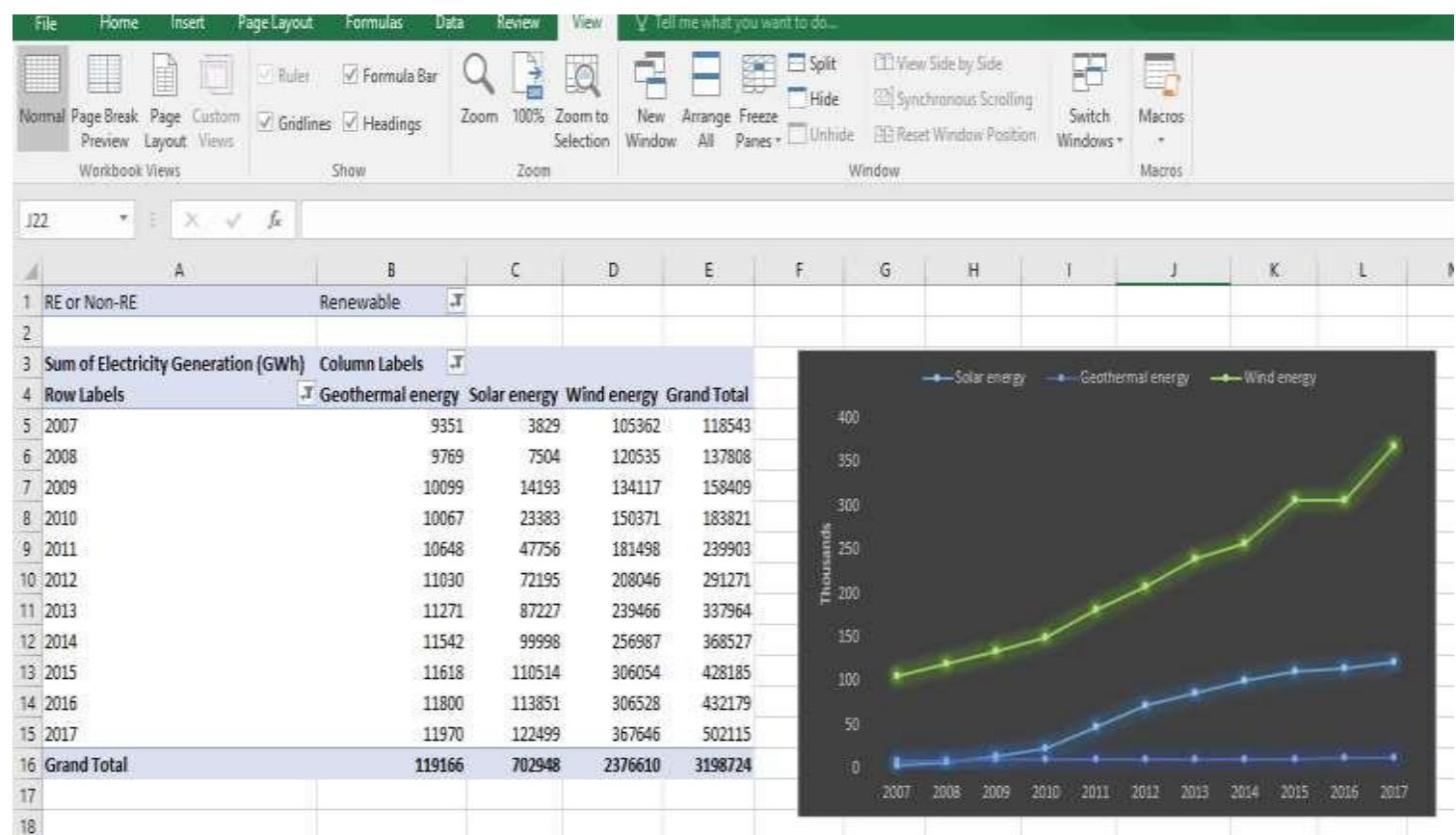
# Small Multiples



## Generation Chart – Non Renewable



## Generation Chart – Renewable



## Renewable Data

The screenshot shows an Excel spreadsheet with data on investment in renewable energy projects from 2013. The table includes columns for Project ID, Country/Region, ISO code, Region, Project name, Date, Investor, Technology, Asset Class, Amount (USD million), and Source. Projects include decentralized power supply through renewable energies, solar assistance to social development, wind projects, and various energy efficiency programs in countries like Afghanistan, Chile, Palestine, Romania, Brazil, Nepal, Senegal, and others.

	A	B	C	D	E	F	G	H	I	
1	Investment in Renewable Energy									
2										
3	Recipient Country/Area	ISO-cod	Region	Project	Date	Investor	Technology	Asset Class	Amount (USD million)	Source
4	Afghanistan	AFG	Asia	Decentralized Power Supply through Renewable Energies	1/01/2013	Others	Multiple renewab	Grant	20.94393394	2013 OECD Cred
5	Chile	CHL	South Am	Renewable Energy and Energy Efficiency Programme in Chile (AM)	1/01/2013	Others	Multiple renewab	Grant	1.846094985	2013 OECD Cred
6	Palestine	PSE	Middle Ea	Assistance to Social and Development Projects in Palestine - Essahaba C	1/01/2013	Others	Solar energy	Grant	0.045061927	2013 OECD Cred
7	Romania	ROU	Europe	Smardan Wind Project	1/01/2013	EBRD	Wind energy	Loan	68.32739934	<a a="" href="http://www.eb&lt;/a&gt;&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;8&lt;/td&gt; &lt;td&gt;Brazil&lt;/td&gt; &lt;td&gt;BRA&lt;/td&gt; &lt;td&gt;South Am&lt;/td&gt; &lt;td&gt;Dos Arcas Wind Project&lt;/td&gt; &lt;td&gt;2/01/2013&lt;/td&gt; &lt;td&gt;BNDES&lt;/td&gt; &lt;td&gt;Wind energy&lt;/td&gt; &lt;td&gt;Loan&lt;/td&gt; &lt;td&gt;23.23537661&lt;/td&gt; &lt;td&gt;Online databas&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;9&lt;/td&gt; &lt;td&gt;Nepal&lt;/td&gt; &lt;td&gt;NPL&lt;/td&gt; &lt;td&gt;Asia&lt;/td&gt; &lt;td&gt;PROJECT PREPARATORY FACILITY FOR ENERGY&lt;/td&gt; &lt;td&gt;2/01/2013&lt;/td&gt; &lt;td&gt;AsDB&lt;/td&gt; &lt;td&gt;Renewable Hydro&lt;/td&gt; &lt;td&gt;Grant&lt;/td&gt; &lt;td&gt;14.19450689&lt;/td&gt; &lt;td&gt;2013 OECD Cred&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;10&lt;/td&gt; &lt;td&gt;Other Cent Am Carib&lt;/td&gt; &lt;td&gt;XCC&lt;/td&gt; &lt;td&gt;Central Ar&lt;/td&gt; &lt;td&gt;Development of a Clean and Sustainable Electric Grid in Latin America&lt;/td&gt; &lt;td&gt;2/01/2013&lt;/td&gt; &lt;td&gt;IADB&lt;/td&gt; &lt;td&gt;Multiple renewab&lt;/td&gt; &lt;td&gt;Grant&lt;/td&gt; &lt;td&gt;0.720990826&lt;/td&gt; &lt;td&gt;2013 OECD Cred&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;11&lt;/td&gt; &lt;td&gt;Senegal&lt;/td&gt; &lt;td&gt;SEN&lt;/td&gt; &lt;td&gt;Africa&lt;/td&gt; &lt;td&gt;SOLAR ENERGY AT THE SERVICE OF EDUCATION. A PHOTOVOLTAIC POWE&lt;/td&gt; &lt;td&gt;2/01/2013&lt;/td&gt; &lt;td&gt;Others&lt;/td&gt; &lt;td&gt;Solar energy&lt;/td&gt; &lt;td&gt;Grant&lt;/td&gt; &lt;td&gt;0.00138199&lt;/td&gt; &lt;td&gt;2013 OECD Cred&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;12&lt;/td&gt; &lt;td&gt;Other Africa&lt;/td&gt; &lt;td&gt;XAF&lt;/td&gt; &lt;td&gt;Africa&lt;/td&gt; &lt;td&gt;Employment through development of renewable energy&lt;/td&gt; &lt;td&gt;3/01/2013&lt;/td&gt; &lt;td&gt;Others&lt;/td&gt; &lt;td&gt;Multiple renewab&lt;/td&gt; &lt;td&gt;Grant&lt;/td&gt; &lt;td&gt;5.817765269&lt;/td&gt; &lt;td&gt;2013 OECD Cred&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;13&lt;/td&gt; &lt;td&gt;Thailand&lt;/td&gt; &lt;td&gt;THA&lt;/td&gt; &lt;td&gt;Asia&lt;/td&gt; &lt;td&gt;TC AGGREGATED ACTIVITIES&lt;/td&gt; &lt;td&gt;3/01/2013&lt;/td&gt; &lt;td&gt;JICA&lt;/td&gt; &lt;td&gt;Multiple renewab&lt;/td&gt; &lt;td&gt;Grant&lt;/td&gt; &lt;td&gt;1.05247116&lt;/td&gt; &lt;td&gt;2013 OECD Cred&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;14&lt;/td&gt; &lt;td&gt;Brazil&lt;/td&gt; &lt;td&gt;BRA&lt;/td&gt; &lt;td&gt;South Am&lt;/td&gt; &lt;td&gt;Faisa IV Wind Project&lt;/td&gt; &lt;td&gt;4/01/2013&lt;/td&gt; &lt;td&gt;BNDES&lt;/td&gt; &lt;td&gt;Wind energy&lt;/td&gt; &lt;td&gt;Loan&lt;/td&gt; &lt;td&gt;6.301203807&lt;/td&gt; &lt;td&gt;Online databas&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;15&lt;/td&gt; &lt;td&gt;Bosnia Herzg&lt;/td&gt; &lt;td&gt;BIH&lt;/td&gt; &lt;td&gt;Europe&lt;/td&gt; &lt;td&gt;Energy Sector Program III&lt;/td&gt; &lt;td&gt;5/01/2013&lt;/td&gt; &lt;td&gt;KFW&lt;/td&gt; &lt;td&gt;Multiple renewab&lt;/td&gt; &lt;td&gt;Loan&lt;/td&gt; &lt;td&gt;11.63554807&lt;/td&gt; &lt;td&gt;2013 OECD Cred&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;16&lt;/td&gt; &lt;td&gt;Brazil&lt;/td&gt; &lt;td&gt;BRA&lt;/td&gt; &lt;td&gt;South Am&lt;/td&gt; &lt;td&gt;Corredor do Senandes IV Wind Project&lt;/td&gt; &lt;td&gt;5/01/2013&lt;/td&gt; &lt;td&gt;BNDES&lt;/td&gt; &lt;td&gt;Wind energy&lt;/td&gt; &lt;td&gt;Loan&lt;/td&gt; &lt;td&gt;25.88641507&lt;/td&gt; &lt;td&gt;Online databas&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;17&lt;/td&gt; &lt;td&gt;Other Africa&lt;/td&gt; &lt;td&gt;XAF&lt;/td&gt; &lt;td&gt;Africa&lt;/td&gt; &lt;td&gt;CEDEAO/ECOWAS 2013. Recruitment of technical assistance ECREEE (Re)&lt;/td&gt; &lt;td&gt;5/01/2013&lt;/td&gt; &lt;td&gt;Others&lt;/td&gt; &lt;td&gt;Multiple renewab&lt;/td&gt; &lt;td&gt;Grant&lt;/td&gt; &lt;td&gt;0.09131202&lt;/td&gt; &lt;td&gt;2013 OECD Cred&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;18&lt;/td&gt; &lt;td&gt;Romania&lt;/td&gt; &lt;td&gt;ROU&lt;/td&gt; &lt;td&gt;Europe&lt;/td&gt; &lt;td&gt;Crucea North Wind Farm&lt;/td&gt; &lt;td&gt;5/01/2013&lt;/td&gt; &lt;td&gt;EBRD&lt;/td&gt; &lt;td&gt;Wind energy&lt;/td&gt; &lt;td&gt;Loan&lt;/td&gt; &lt;td&gt;81.44672866&lt;/td&gt; &lt;td&gt;&lt;a href=" http:="" www.eb<=""></a>
19	Brazil	BRA	South Am	Bagasse Pre-Treatment Equipment	6/01/2013	BNDES	Bioenergy	Loan	6.777304448	Online databas

## Jobs Data and World Consumption

File Home Insert Page Layout Formulas

Normal Page Break Preview Page Layout Custom Views

Ruler Gridlines Headers

Show Workbook Views

B11

A B C D

1	Year	Technology	Jobs
2	2013	Solar	2776000
3	2013	Bioenergy	2499000
4	2013	Hydrpower	2210000
5	2013	Wind Energy	834000
6	2013	Other	227000
7	2014	Solar	3258000
8	2014	Bioenergy	2990000
9	2014	Hydrpower	2036000
10	2014	Wind Energy	1027000
11	2014	Other	187000
12	2015	Solar	3710000
13	2015	Bioenergy	2882000
14	2015	Hydrpower	2164000
15	2015	Wind Energy	1081000
16	2015	Other	200000
17	2016	Solar	3918000
18	2016	Bioenergy	2743000
19	2016	Hydrpower	2062000
20	2016	Wind Energy	1160000
21	2016	Other	240000

A	B	C	D	E
1	Region	Year	Type	Value
2	World	1965	Traditional	9162.457
3	World	1965	Hydropow	919.7703
4	World	1965	Solar	0
5	World	1965	Wind	0
6	World	1965	Other ren	17.98523
7	World	1966	Traditional	9218.173
8	World	1966	Hydropow	986.2859
9	World	1966	Solar	0
10	World	1966	Wind	0
11	World	1966	Other ren	19.80601
12	World	1967	Traditional	9274.227
13	World	1967	Hydropow	1009.245
14	World	1967	Solar	0
15	World	1967	Wind	0
16	World	1967	Other ren	19.98657
17	World	1968	Traditional	9330.623
18	World	1968	Hydropow	1059.063
19	World	1968	Solar	0
20	World	1968	Wind	0
21	World	1968	Other ren	22.12005