

## Project Title: HAM – Residential Sector

**ALBANIAN TEAM**

20-22 April 2016

Figure 1. GDP indicators.

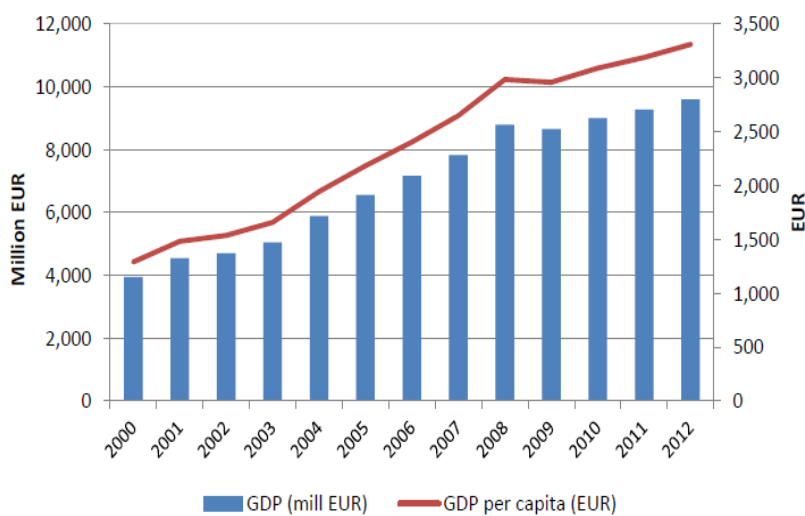
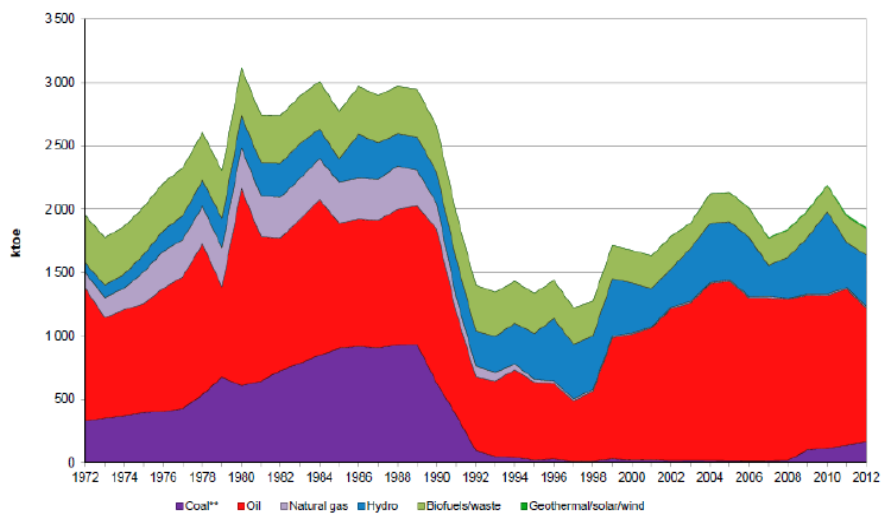
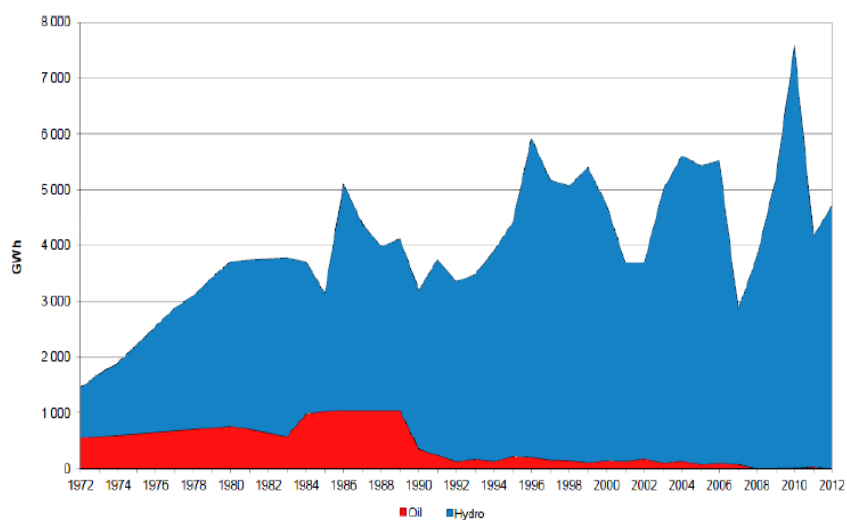


Figure 2. Total primary energy supply in Albania.



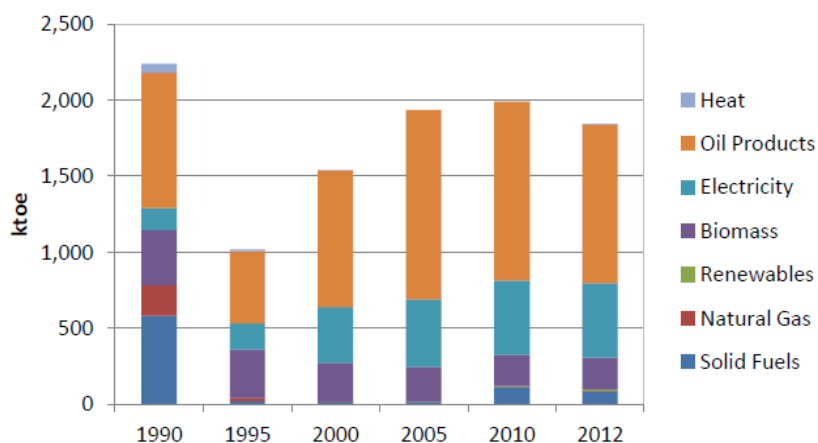
Source: IEA

Figure 3. Electricity generation by fuel in Albania.



Source: IEA

Figure 4. Final energy consumption by fuel.



Source: IEA (years 1990-2010), AKBN (2012)

Figure 8. Baseline scenario primary energy requirements.

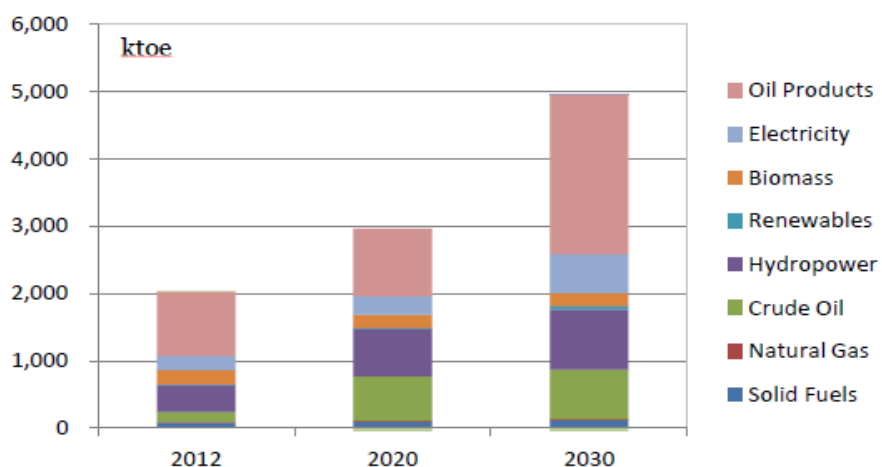


Figure 9. Baseline scenario final energy demand in 2012, 2020, 2030.

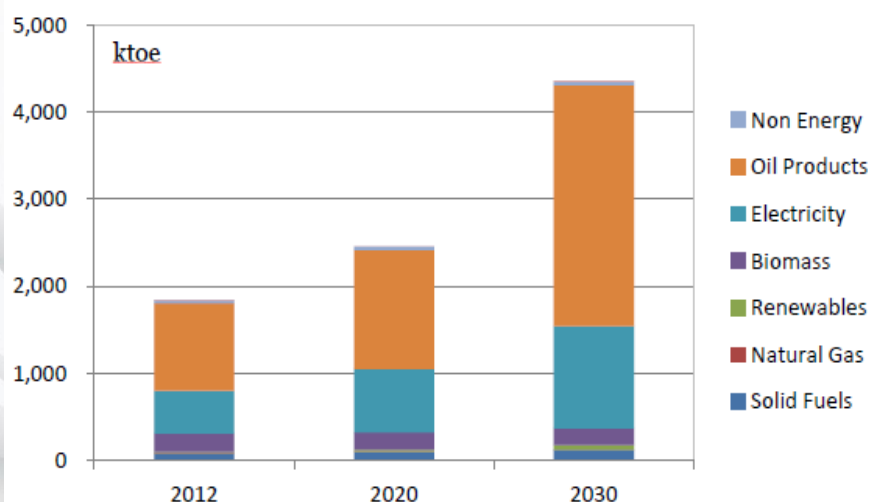


Figure 10. Baseline final energy demand by sector.

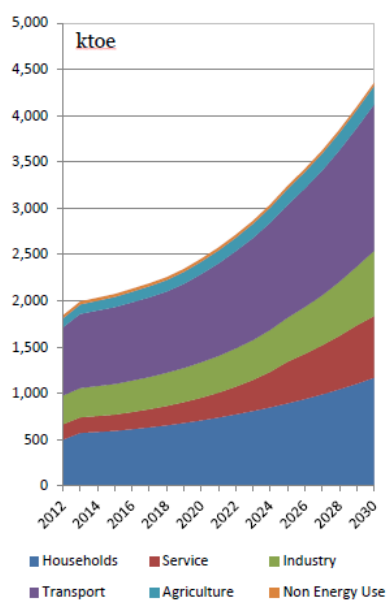
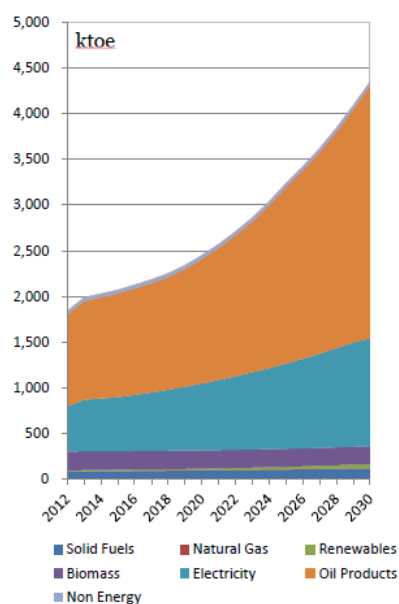
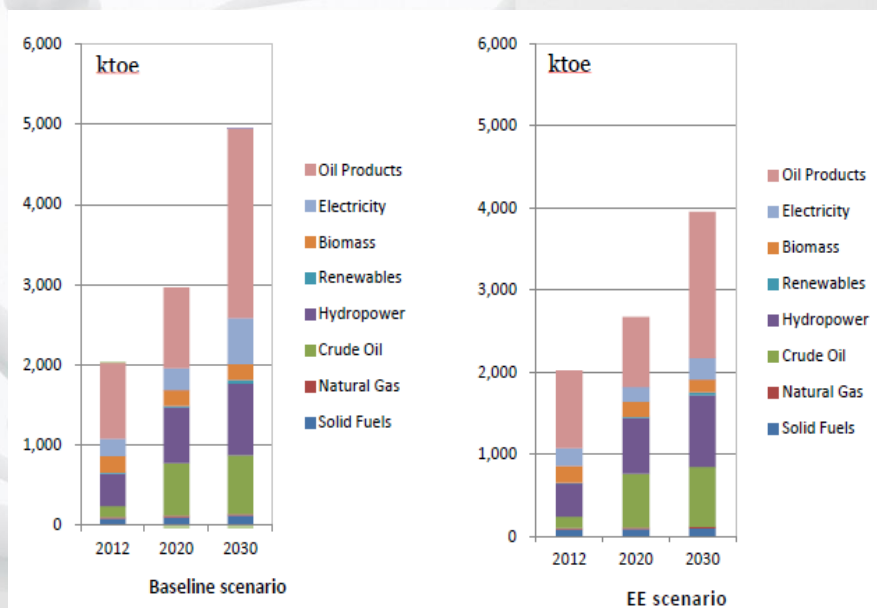
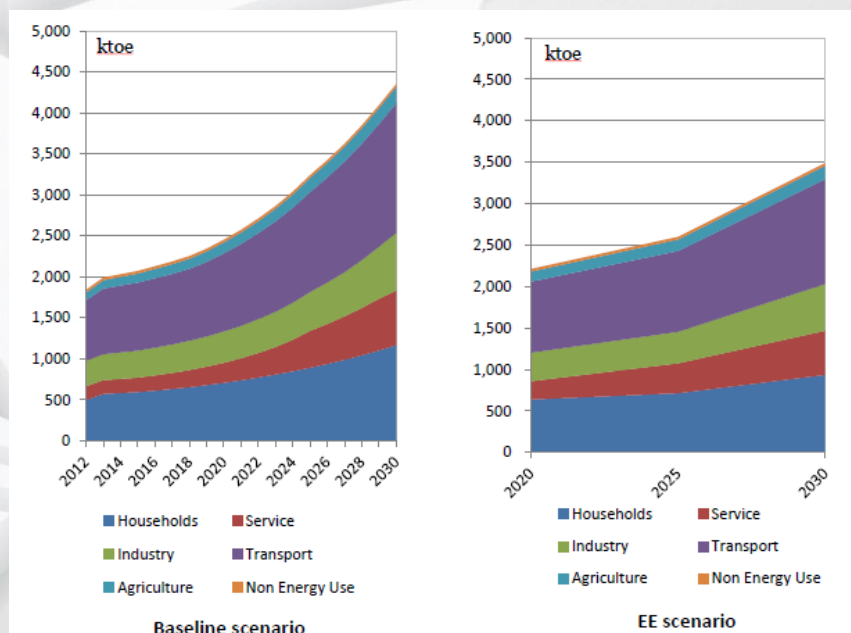


Figure 11. Baseline final energy demand by fuel.





Indicator	2012	2030	Average Annual Growth Rate (%)	Overall Growth (%)	Change compared to Baseline (%)
Primary energy requirements (ktoe)	2,035	3,835	3.7	89	-21
Final Energy Consumption (ktoe)	1,843	3,489	3.6	89	-20
Power plant capacity (MW)	1,721	2,911	3	69	0
Imports (ktoe)	1,297	2,255	3.2	74	-28
Imports of electricity (TWh)	2.5	3.0	2.8	20	-55
GDP (€ Mill.)	9.5	21.6	4.7	127	0
Population (Mill.)	2.86	3.42	1.0	20	0
Final Energy intensity (toe/€000 GDP)	0.19	0.16	-1	-16	-20
Final Energy intensity (toe/Capita)	0.64	1.02	2.6	59	-20



**Are projected RES capacity as follows, in total:**

**-Wind energy power plants:**

**20 MW in 2020, 40 MW in 2022, 100 MW in 2025 and 150 MW in 2026.**

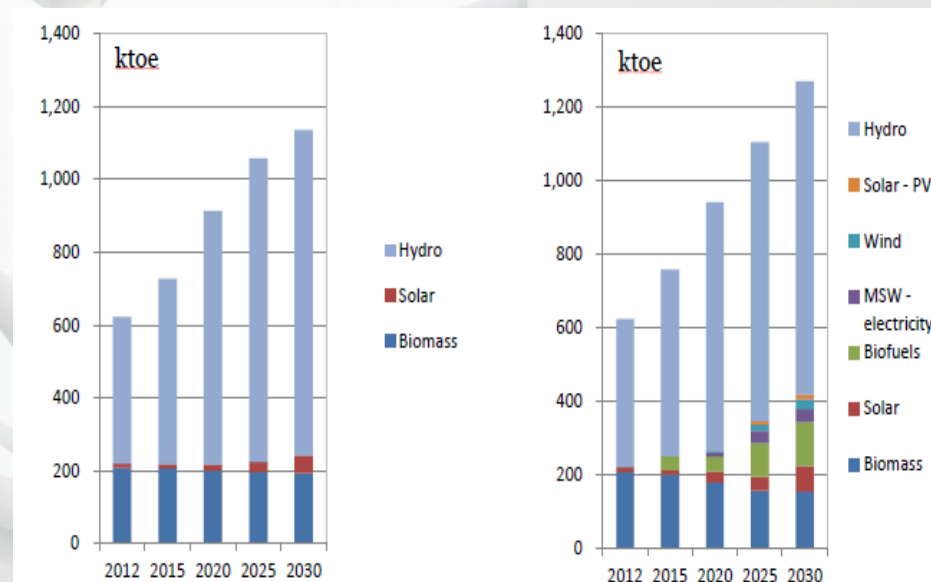
**-Municipal solid waste power plants:**

**20 MW in 2020, 60 MW in 2024.**

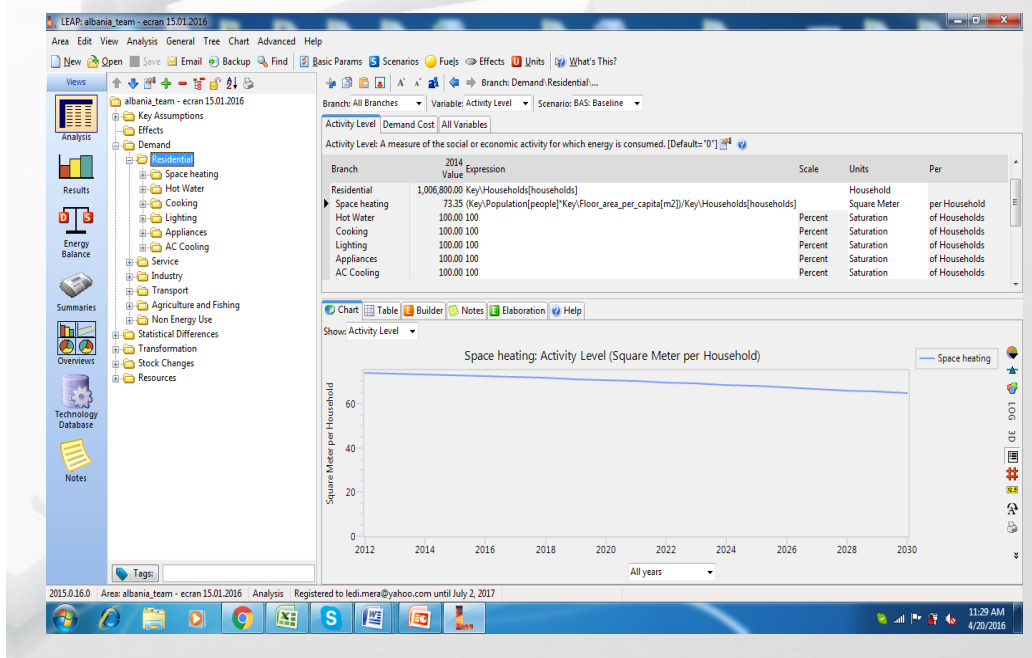
**-Solar PV systems:**

**40 MW in 2020, 80 MW in 2025, 100 MW in 2026.**

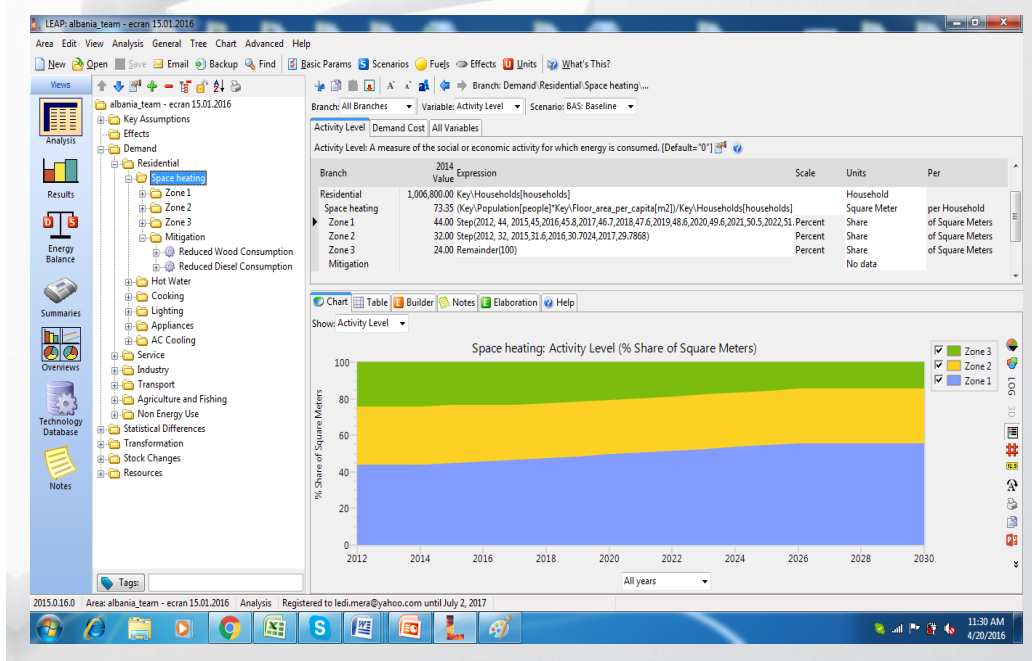
Indicator	2012	2030	Average Annual Growth Rate (%)	Overall Growth (%)	Change compared to Baseline (%)
Primary energy requirements (ktoe)	2,035	4,033	3.9	97	-17
Final Energy Consumption (ktoe)	1,843	3,489	3.6	89	-20
Power plant capacity (MW)	1,721	3,221	3.6	87	11
Imports (ktoe)	1,297	2,227	3.1	72	-29
Imports of electricity (TWh)	2.5	2.5	1.6	-2	-63
GDP (€ Mill.)	9.5	21.6	4.7	127	0
Population (Mill.)	2.86	3.42	1.0	20	0
Final Energy intensity (toe/€000 GDP)	0.19	0.16	-1	-17	-20
Final Energy intensity (toe/Capita)	0.64	1.02	2.6	58	-20



## Home Work Nr.3 – Residential Sector



## Residential Sector

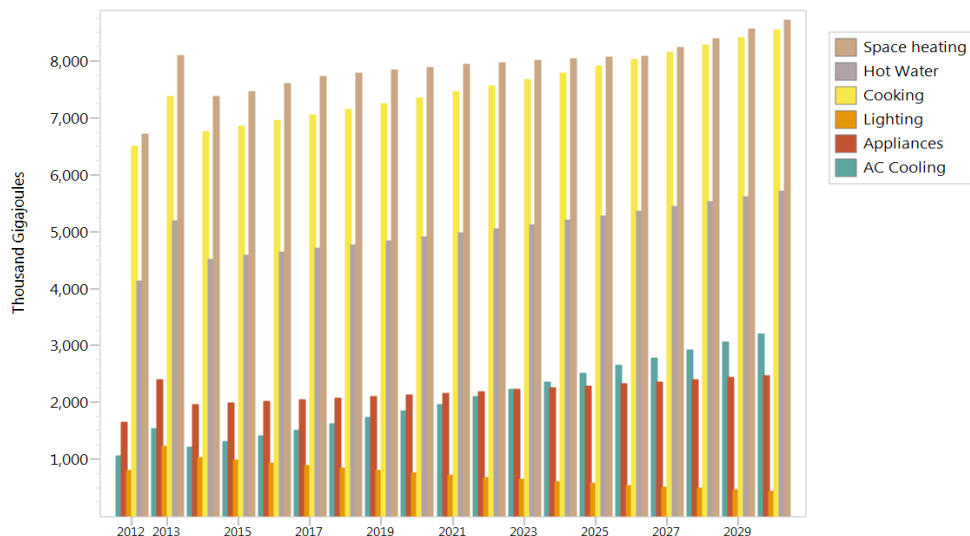




## Home Work Nr.3 – Residential Sector

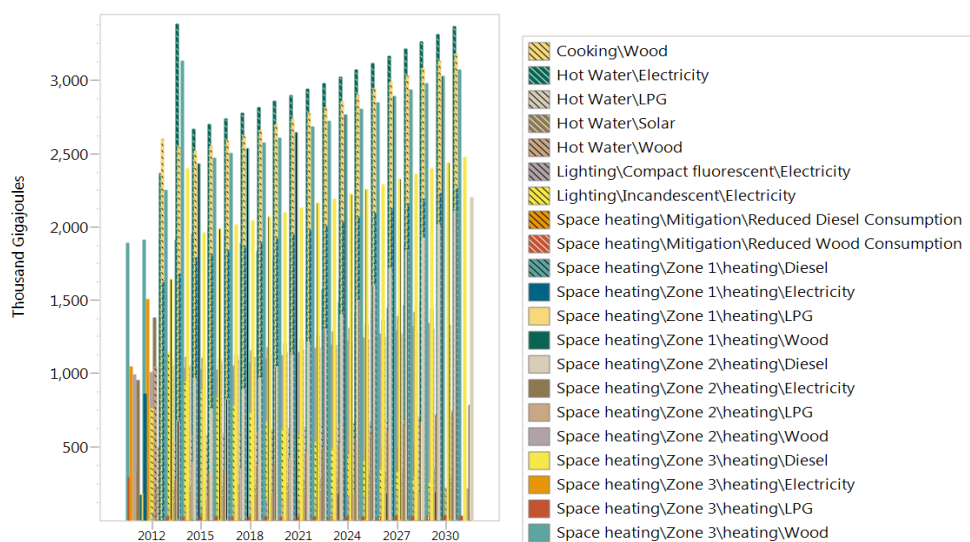
### Energy Demand Final Units

Baseline Scenario, All Fuels



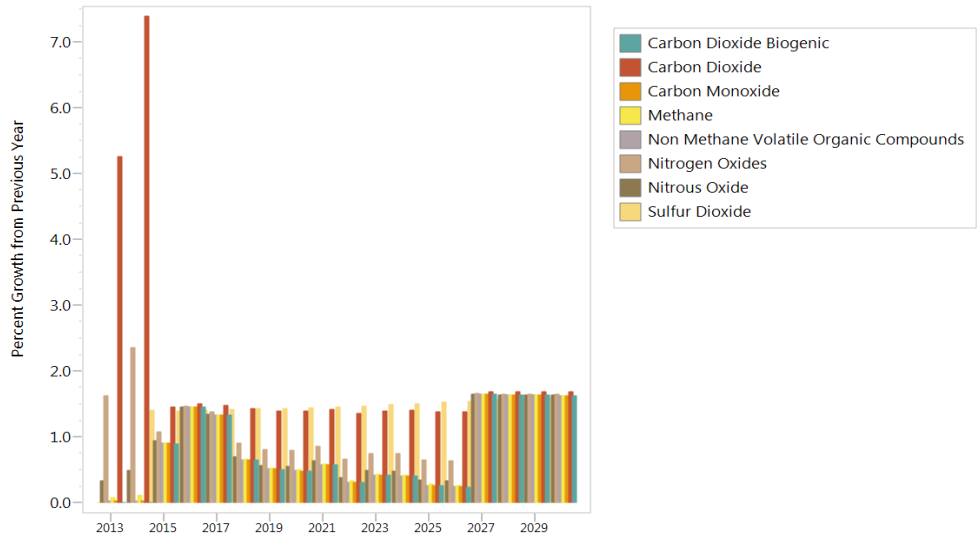
## Energy Demand Final Units

Baseline Scenario, All Fuels



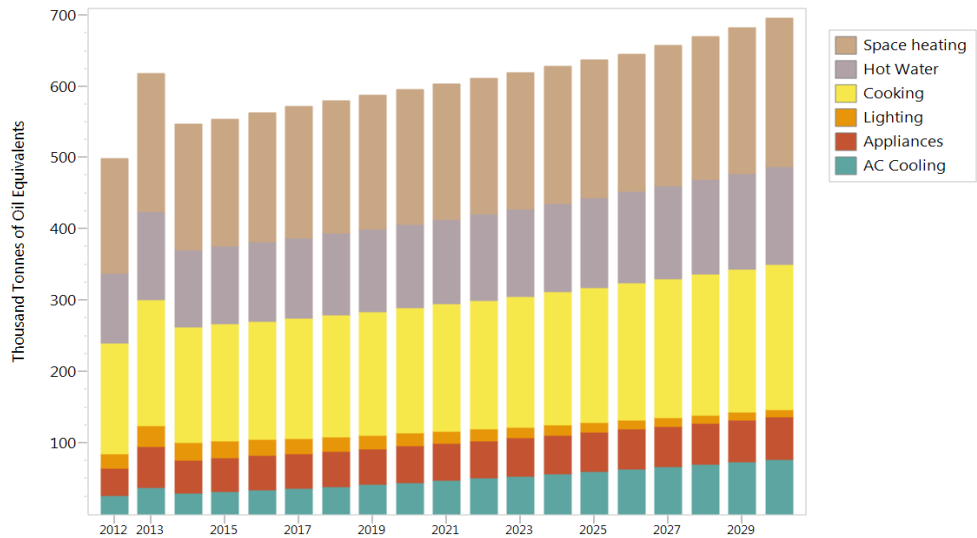
# All Effects

## Baseline Scenario, All Fuels



# Energy Demand Final Units

## Solar Water Heating Scenario, All Fuels





*Thank you !*

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20 – 22 April 2016