

## Demand projection in VEDA-FE

The energy service demands in VEDA FE are projected with this formula:

$$\text{DEM (t+1)} = \text{DEM (Base Year)} * \text{Driver (t+1)}^{\text{Sensitivity}}$$

This is an example from the training models

1) Drivers growth and allocation are saved in demand scenario files as shown in the next figure:

- Driver growth scenario file REFScenario (it is possible to change workbook name)
- Drivers allocation scenario Dem\_Alloc+Series (fixed workbook name)



2) Scenario file REFScenario

\* Declare the demand drives and initial allocations

~DRVR_Table						
Region	Driver	\~2005	\~2006	\~2010	\~2015	\~2020
REG1	GDP	1.00	1.01	1.05	1.10	1.20
REG2	GDP	1.00	1.05	1.10	1.20	1.30
REG1	POP	1.00	1.00	1.00	1.00	1.00

This table is used to declare the demand drivers growth (based on 2005 that is the base year in this example) by region.

3) Scenario file Dem\_Alloc+Series

- Sheet DriverAllocation to allocate drivers energy service demands and the driver exponent in the sensitivity column. The calibration column is not used.

~DRVR_Allocation				
Region	Demand	Driver	Calibration	Sensitivity
REG1	DTCAR	GDP		CONSTANT
REG2	DTCAR	GDP		CONSTANT

- Sheet Series to define the exponent values

~Series					
Series	\~2005	\~2006	\~2010	\~2015	\~2020
Constant	1.0	1.0	1.0	1.0	1.0

