

SAGE update

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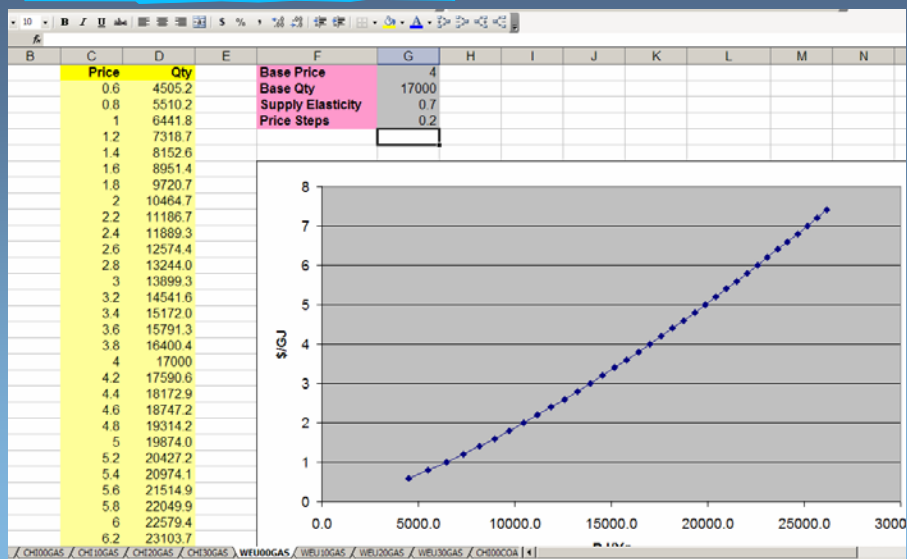
Main Features of SAGE

- Myopic behavior: solves one period at a time
- New Market Share approach for the end-use
- Supply Curves for Fossil Fuel
- Final Energy representation for selected regions/sectors

The improved market share approach

- Run free to get RedCost of VAR_ACT
- $\text{Weight} = \text{MktPref} * (\text{BasePrice} + \text{RedCost})^{\text{-Gamma}}$
- Allocate market share proportionally via INV Bound~LO for the new investment

Supply Curves



The Final Energy version

The screenshot shows an Excel spreadsheet with a 'B-Y Template' (a light blue area) and a 'Scenario File' (a data table). The 'B-Y Template' includes a 'FinEn Model' dropdown set to 'Y' and a table of attributes. The 'Scenario File' is a data table with columns for years from 2000 to 2030 and rows for various energy sources.

Attribute	CommName	2000
VA_SFC	RESNGA	409.23
VA_SFC	RESNST	39.61
VA_SFC	RESHFO	
VA_SFC	RESKER	27.69
VA_SFC	RESCOA	1671.10
VA_SFC	RESLPG	684.94
VA_SFC	RESBIO	6502.13
VA_SFC	RESELG	853.53
VA_SFC	RESHET	336.58
VA_SFC	RESGEO	

	2000	2005	2010	2015	2020	2025	2030
RESNGA	409.2	614.2	995.0	1327.2	1648.0	2029.8	2462.7
RESNST	39.6	63.3	109.7	151.9	192.0	242.0	300.9
RESHFO	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RESKER	27.7	25.9	33.2	38.8	42.8	46.1	49.3
RESCOA	1671.1	2897.7	3237.0	3123.6	2947.2	2696.9	2543.1
RESLPG	684.9	841.2	1011.4	1075.3	1119.6	1165.9	1223.4
RESBIO	6502.1	8522.2	9657.2	9847.2	9999.6	9487.2	9567.9
RESELG	853.5	1266.2	2072.6	2947.2	3699.4	4674.9	5864.2
RESHET	336.6	446.0	518.2	584.2	549.9	561.6	574.1
RESGEO	0.0	0.8	1.6	2.3	2.8	3.3	3.9
RESSOL	0.0	0.0	0.0	0.0	0.0	0.0	0.0

My Impression

