

Elektrik Enerjisi Piyasası ve Arz Güvenliği Belgesinin LEAP Turkey 3.0 Uygulaması

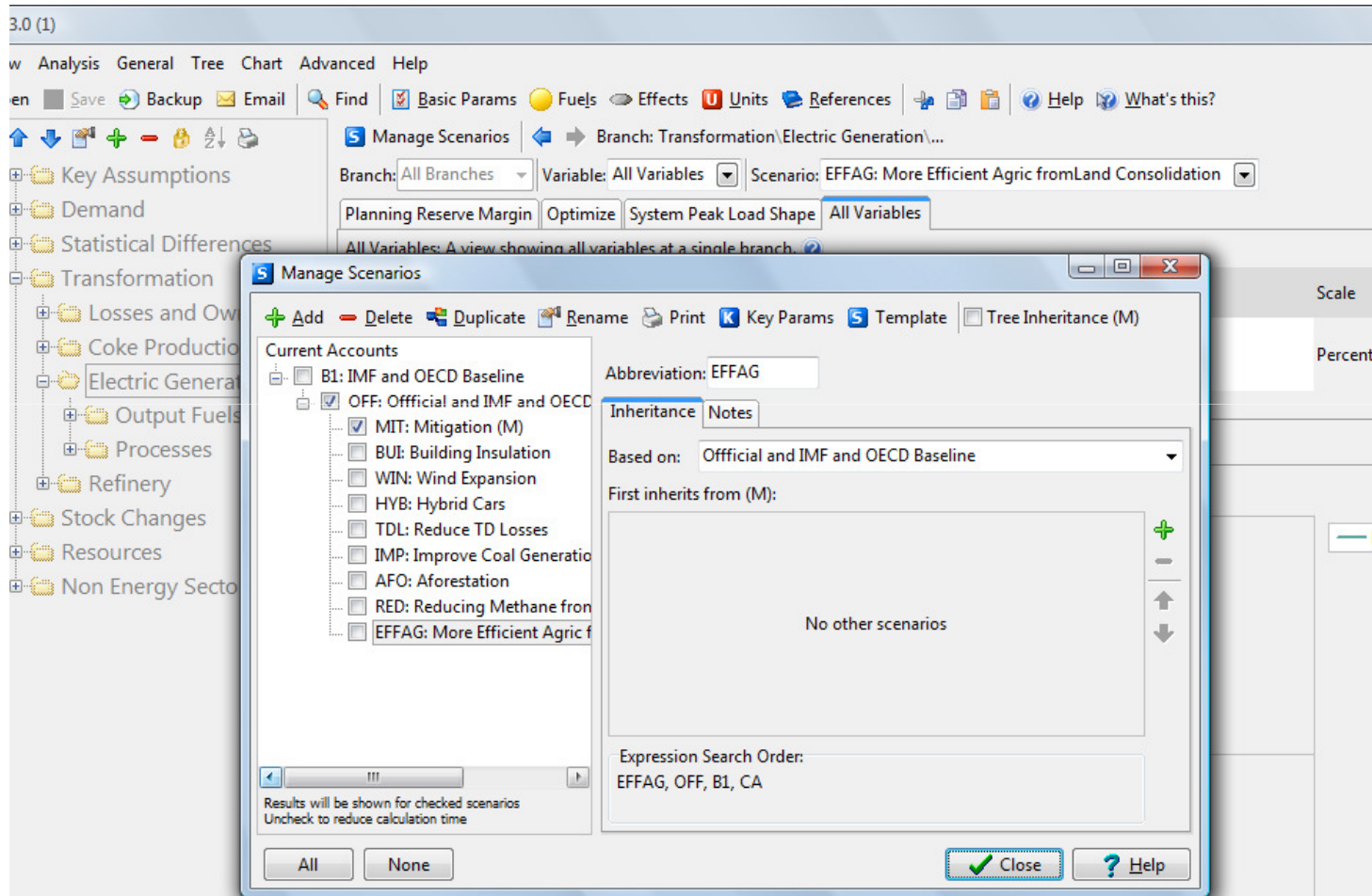
2023 Yılı Hedefleri

- Bilinen linyit ve taşkömürü kaynakları elektrik enerjisi üretimi için değerlendirilmiş olacaktır.
- Elektrik enerjisi üretiminde nükleer enerjinin payının 2020 yılına kadar en az % 5 olması hedeflenmektedir.
- Teknik ve ekonomik olarak değerlendirilebilecek hidroelektrik potansiyelimizin tamamı elektrik enerjisi üretiminde kullanılacaktır.

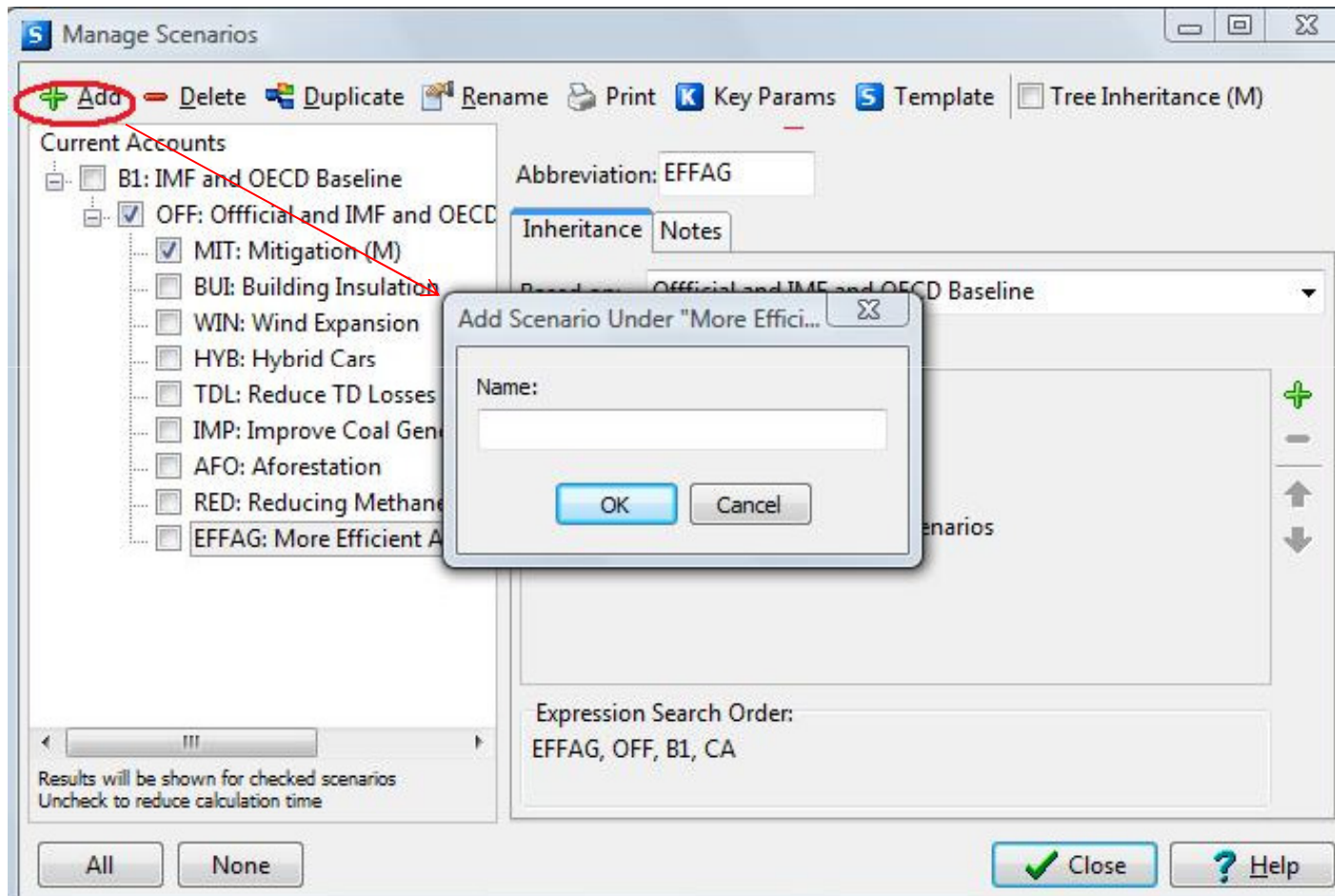
2023 Yılı Hedefleri

- Rüzgar enerjisi kurulu gücünün 20.000 MW'a çıkarılması hedeflenmektedir.
- 600 MW'lık jeotermal potansiyelimizin tamamının işletmeye girmesi sağlanacaktır.
- Elektrik üretiminde doğal gazın payının % 30'un altına düşürülmesi hedeflenecektir.

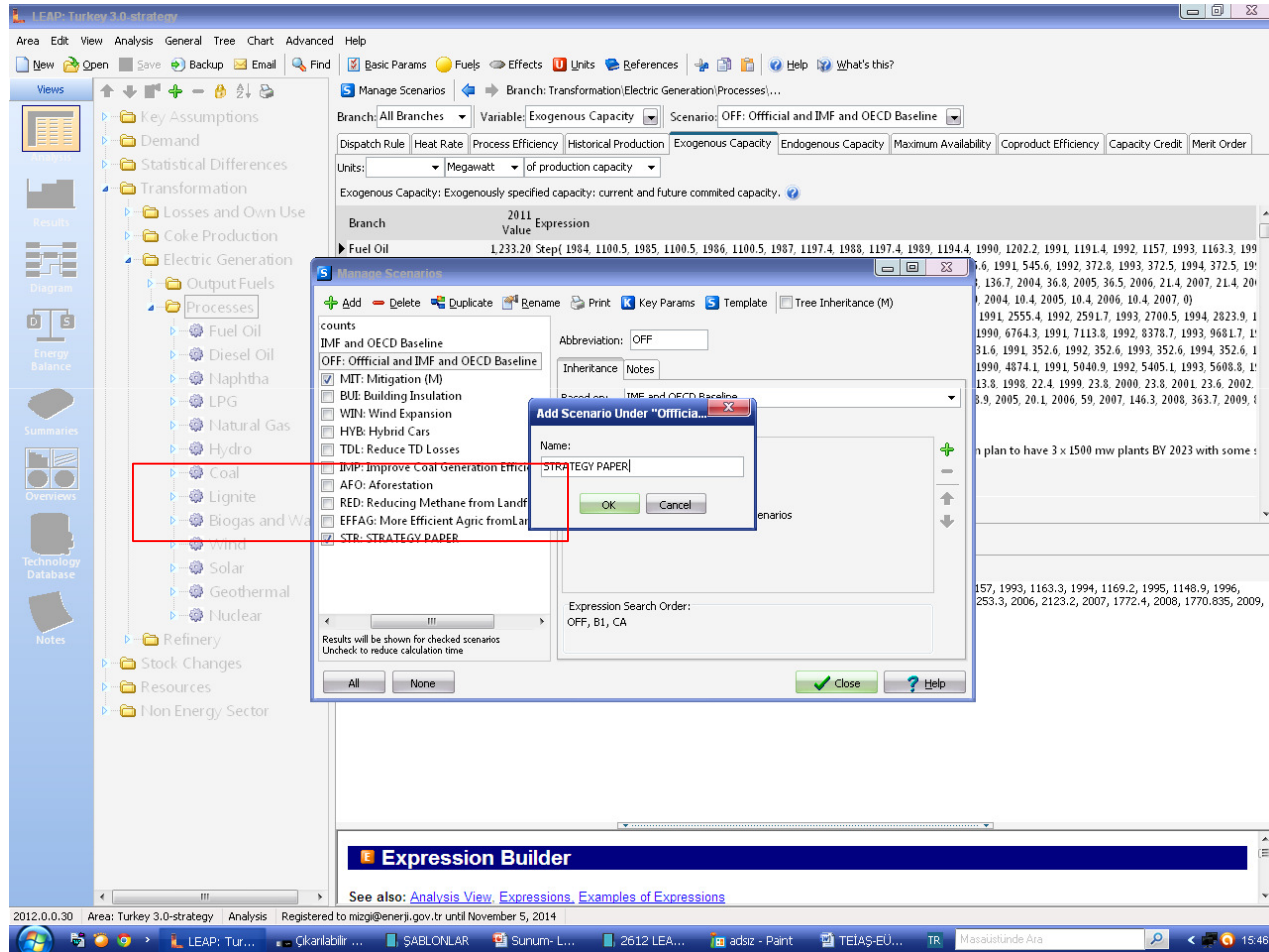
“Manage Scenarios” tıklanarak yeni bir senaryo oluşturulur.



Senaryo oluřturma



Senaryoya isim verilir...



Senaryo son aşama

The screenshot displays the LEAP Turkey 3.0 software interface. The main window shows a tree view on the left with categories like Key Assumptions, Demand, Statistical Differences, Transformation, Losses and Own Use, Coke Production, Electric Generation, Output Fuels, Processes, Refinery, Stock Changes, Resources, and Non Energy Sector. The 'Electric Generation' category is selected. The main area shows a table with columns for Scale and Unit, and a row for 'Percent' with a value of 'ERROR!'. A 'Manage Scenarios' dialog box is open in the foreground, showing a list of current accounts and a tree view of scenarios. The 'STR: Strategy Paper' scenario is selected. The dialog box also shows the 'Inheritance' tab, where the 'Based on' field is set to 'Official and IMF and OECD Baseline' and the 'First inherits from (M)' field is empty. The 'Expression Search Order' is listed as 'STR, OFF, B1, CA'. The dialog box has buttons for 'All', 'None', 'Close', and 'Help'.

LEAP: Turkey 3.0 (1)

Area Edit View Analysis General Tree Chart Advanced Help

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Views

- Key Assumptions
- Demand
- Statistical Differences
- Transformation
- Losses and Own Use
- Coke Production
- Electric Generation
- Output Fuels
- Processes
- Refinery
- Stock Changes
- Resources
- Non Energy Sector

Results

Diagram

Energy Balance

Summaries

Overviews

Technology Database

Notes

Manage Scenarios

Branch: Transformation\Electric Generation\...

Branch: All Branches Variable: All Variables Scenario: EFFAG: More Efficient Agric fromLand Consolidation

Planning Reserve Margin Optimize System Peak Load Shape All Variables

All Variables: A view showing all variables at a single branch.

Scale Unit

Percent !ERROR! Percent Percent

Electric Generation

100

1990 1994 1998 2002 2006 2010 2014 2018 2022 2026 2030 2034 2038 2042 2046 2050

All years

2012.0.0.30 Area: Turkey 3.0 (1) Analysis Registered to mizgi@enerji.gov.tr until Kasim 5, 2014

Microsoft Outlook ... UEA-VeriBankasi Sunum- LEAP Adsiz - Paint LEAP: Turkey 3.0 (1) TR 22:48

2023 Rüzgar hedefi “Builder” dan girildi.

The screenshot shows a software interface with a menu bar (File, Edit, Help) and a toolbar. The main window displays a table of energy sources and their capacity values. The 'Builder' tab is selected, and the 'Wind' row is highlighted. The expression for the 'Wind' row is shown in a red box at the bottom of the interface.

Branch	2011 Value	Expression
Fuel Oil	1.233,20	Step(1984; 1100,5; 1985; 1100,5; 1986; 1100,5; 1987; 1197,4; 1988; 1197,4; 1989; 1194,4; 1990; 1202,2; 1991; 1191,4; 1992; 1157; 1993; 1163,3;
Diesel Oil	62,50	Step(1984; 627,3; 1985; 627,3; 1986; 625,4; 1987; 543,7; 1988; 544; 1989; 545,6; 1990; 545,6; 1991; 545,6; 1992; 372,8; 1993; 372,5; 1994; 372,5;
Naphtha	4,70	Step(1996; 0; 1997; 4,5; 1998; 53,2; 1999; 71,6; 2000; 71,6; 2001; 131,7; 2002; 131,7; 2003; 136,7; 2004; 36,8; 2005; 36,5; 2006; 21,4; 2007; 21,4;
LPG	0,00	Step(1996; 0; 1997; 13,8; 1998; 34,2; 1999; 33,7; 2000; 23,7; 2001; 24; 2002; 24; 2003; 29,9; 2004; 10,4; 2005; 10,4; 2006; 10,4; 2007; 0)
Natural Gas	13.143,90	Step(1984; 0,00; 1985; 100; 1986; 400; 1987; 800; 1988; 1555,2; 1989; 2035,8; 1990; 2210; 1991; 2555,4; 1992; 2591,7; 1993; 2700,5; 1994; 2823,
Hydro	17.137,10	Step(1984; 3874,8; 1985; 3874,8; 1986; 3877,5; 1987; 5003,3; 1988; 6218,3; 1989; 6597,3; 1990; 6764,3; 1991; 7113,8; 1992; 8378,7; 1993; 9681,;
Coal	4.351,00	Step(1984; 219,9; 1985; 219,9; 1986; 197,7; 1987; 181,6; 1988; 181,6; 1989; 331,6; 1990; 331,6; 1991; 352,6; 1992; 352,6; 1993; 352,6; 1994; 352,
Lignite	8.199,30	Step(1984; 2359,3; 1985; 2864,3; 1986; 3579,3; 1987; 4434,3; 1988; 4434,3; 1989; 4713,7; 1990; 4874,1; 1991; 5040,9; 1992; 5405,1; 1993; 5608,i
Biogas and Wastes	125,70	Step(1990; 0,0; 1991; 10; 1992; 13,8; 1993; 13,8; 1994; 13,8; 1995; 13,8; 1996; 13,8; 1997; 13,8; 1998; 22,4; 1999; 23,8; 2000; 23,8; 2001; 23,6; 20
Wind	1.590,30	Interp(1997; 0; 1998; 8,7; 1999; 8,7; 2000; 18,9; 2001; 18,9; 2002; 18,9; 2003; 18,9; 2004; 18,9; 2005; 20,1; 2006; 59; 2007; 146,3; 2008; 363,7; 200
Solar	0,00	0
Geothermal	114,20	Step(1984; 15; 2006; 22,951; 2008; 29,801; 2009; 77,201; 2010; 94,201; 2011; 114,201)
Nuclear	0,00	Step(1980; 0; 2020; 1200; 2021; 2400; 2022; 3600; 2023; 4800) ? dates assumed based on plan to have 3 x 1500 mw plants BY 2023 with sor
Total:	45962	69.171,60 in 2050

Interp(1997; 0; 1998; 8,7; 1999; 8,7; 2000; 18,9; 2001; 18,9; 2002; 18,9; 2003; 18,9; 2004; 18,9; 2005; 20,1; 2006; 59; 2007; 146,3; 2008; 363,7; 2009; 802,8; 2010; 1320,2; 2011; 1590,3; 2012; 2202,5; 2023; 20000)

2023 jeotermal hedefimizi “Function” dan girilir...

LEAP: Turkey 3.0 strategy

Area Edit View Analysis General Tree Chart Advanced Help

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Manage Scenarios Branch: Transformation/Electric Generation/Processes/Natural Gas...

Branch: All Branches Variable: Exogenous Capacity Scenario: STR: STRATEGY PAPER

All Variables Dispatch Rule Heat Rate Process Efficiency Historical Production Exogenous Capacity Endogenous Capacity Maximum Availability Coproduct Efficiency Capacity Credit Merit Order

Units: Megawatt of production capacity

Exogenous Capacity: Exogenously specified capacity: current and future committed capacity.

Branch	2011 Value	Expression
Fuel Oil	1,233.20	Step(1984, 1100.5, 1985, 1100.5, 1986, 1100.5, 1987, 1197.4, 1988, 1197.4, 1989, 1194.4, 1990, 1202.2, 1991, 1191.4, 1992, 1157, 1993, 1163.3, 19
Diesel Oil	62.50	Step(1984, 627.3, 1985, 627.3, 1986, 625.4, 1987, 543.7, 1988, 544, 1989, 545.6, 1990, 545.6, 1991, 545.6, 1992, 372.8, 1993, 372.5, 1994, 372.5, 1
Naphtha	4.70	Step(1996, 0, 1997, 4.5, 1998, 53.2, 1999, 71.6, 2000, 71.6, 2001, 131.7, 2002, 131.7, 2003, 136.7, 2004, 36.8, 2005, 36.5, 2006, 21.4, 2007, 21.4, 2
LPG	0.00	Step(1996, 0, 1997, 13.8, 1998, 34.2, 1999, 33.7, 2000, 23.7, 2001, 24, 2002, 24, 2003, 29.9, 2004, 10.4, 2005, 10.4, 2006, 10.4, 2007, 0)
Natural Gas	13,143.90	Interp(1984, 0.0, 1985, 100, 1986, 400, 1987, 800, 1988, 1555.2, 1989, 2035.8, 1990, 2210, 1991, 2555.4, 1992, 2591.7, 1993, 2700.5, 1994, 2823.1
Hydro	17,137.10	Interp(1984, 3874.8, 1985, 3874.8, 1986, 3877.5, 1987, 5003.3, 1988, 6218.3, 1989, 6597.3, 1990, 6764.3, 1991, 7113.8, 1992, 8378.7, 1993, 9681.7
Coal	4,351.00	Step(1984, 219.9, 1985, 219.9, 1986, 197.7, 1987, 181.6, 1988, 181.6, 1989, 331.6, 1990, 331.6, 1991, 352.6, 1992, 352.6, 1993, 352.6, 1994, 352.6
Lignite	8,199.30	Step(1984, 2359.3, 1985, 2864.3, 1986, 3579.3, 1987, 4434.3, 1988, 4434.3, 1989, 4713.7, 1990, 4874.1, 1991, 5040.9, 1992, 5405.1, 1993, 5608.8
Biogas and Wastes	125.70	Step(1990, 0.0, 1991, 10, 1992, 13.8, 1993, 13.8, 1994, 13.8, 1995, 13.8, 1996, 13.8, 1997, 13.8, 1998, 22.4, 1999, 23.8, 2000, 23.8, 2001, 23.6, 2002
Wind	1,590.30	Interp(1997, 0, 1998, 8.7, 1999, 8.7, 2000, 18.9, 2001, 18.9, 2002, 18.9, 2003, 18.9, 2004, 18.9, 2005, 20.1, 2006, 59, 2007, 146.3, 2008, 363.7, 2009
Solar	0.00	0
Geothermal	114.20	Step(1984, 15, 2006, 22.951, 2008, 29.801, 2009, 77.201, 2010, 94.201, 2011, 114.201, 2023, 600)
Nuclear	0.00	Step(1980, 0, 2020, 1200, 2021, 2400, 2022, 3600, 2023, 4800) ? dates assumed based on plan to have 3 x 1500 mw plants BY 2023 with some
Total:	45962	100,867.40 in 2050

Chart Table Builder Notes Elaboration Help

Submit Paste... Branch/Variable Function Time Series Growth Rate

Step(1984, 15, 2006, 22.951, 2008, 29.801, 2009, 77.201, 2010, 94.201, 2011, 114.201, 2023, 600)

Expression Builder

See also: Analysis View Expression Examples of Expression

2012.0.0.30 Area: Turkey 3.0-strategy Analysis Registered to mizog@enerji.gov.tr until November 5, 2014

2012.0.0.30 Area: Turkey 3.0-strategy Analysis Registered to mizog@enerji.gov.tr until November 5, 2014

Daha önce “step” fonksiyonuyla girilen değerler
“Interp” fonksiyonu kullanılarak girilmiştir.

The screenshot displays the LEAP Turkey 3.0 strategy software interface. The main window shows a tree view on the left with categories like Key Assumptions, Demand, Transformation, and Electric Generation. The central pane displays the 'Exogenous Capacity' table, which lists various energy sources and their capacity values over time. A red box highlights the 'Function Wizard' dialog box, which is used to define the 'Interp' function for the 'Exogenous Capacity' variable. The dialog box shows the function type as 'All', the function as 'Interp', and the description: 'Calculates a value in any given year by linear interpolation of a time-series of year/value pairs. In a scenario the base year value is implicitly included.' The parameters section shows 'Parameter 1: 1984, 15, 2006, 22.951, 2008, 29.801, 2009, 77.201, 2010, 94.201, 2011, 114.201, 2023.600 = 600.00 in 2050'. The 'OK' button is highlighted.

Branch	2011 Value	Expression
Fuel Oil	1,233.20	Step(1984, 1100.5, 1985, 1100.5, 1986, 1100.5, 1987, 1197.4, 1988, 1197.4, 1989, 1194.4, 1990, 1202.2, 1991, 1191.4, 1992, 1157, 1993, 1163.3, 1994, 1163.3, 1995, 1163.3, 1996, 1163.3, 1997, 1163.3, 1998, 1163.3, 1999, 1163.3, 2000, 1163.3, 2001, 1163.3, 2002, 1163.3, 2003, 1163.3, 2004, 1163.3, 2005, 1163.3, 2006, 1163.3, 2007, 1163.3, 2008, 1163.3, 2009, 1163.3, 2010, 1163.3, 2011, 1163.3, 2012, 1163.3, 2013, 1163.3, 2014, 1163.3, 2015, 1163.3, 2016, 1163.3, 2017, 1163.3, 2018, 1163.3, 2019, 1163.3, 2020, 1163.3, 2021, 1163.3, 2022, 1163.3, 2023, 1163.3, 2024, 1163.3, 2025, 1163.3, 2026, 1163.3, 2027, 1163.3, 2028, 1163.3, 2029, 1163.3, 2030, 1163.3, 2031, 1163.3, 2032, 1163.3, 2033, 1163.3, 2034, 1163.3, 2035, 1163.3, 2036, 1163.3, 2037, 1163.3, 2038, 1163.3, 2039, 1163.3, 2040, 1163.3, 2041, 1163.3, 2042, 1163.3, 2043, 1163.3, 2044, 1163.3, 2045, 1163.3, 2046, 1163.3, 2047, 1163.3, 2048, 1163.3, 2049, 1163.3, 2050, 1163.3)
Diesel Oil	62.50	Step(1984, 62.5, 1985, 62.5, 1986, 62.5, 1987, 62.5, 1988, 62.5, 1989, 62.5, 1990, 62.5, 1991, 62.5, 1992, 62.5, 1993, 62.5, 1994, 62.5, 1995, 62.5, 1996, 62.5, 1997, 62.5, 1998, 62.5, 1999, 62.5, 2000, 62.5, 2001, 62.5, 2002, 62.5, 2003, 62.5, 2004, 62.5, 2005, 62.5, 2006, 62.5, 2007, 62.5, 2008, 62.5, 2009, 62.5, 2010, 62.5, 2011, 62.5, 2012, 62.5, 2013, 62.5, 2014, 62.5, 2015, 62.5, 2016, 62.5, 2017, 62.5, 2018, 62.5, 2019, 62.5, 2020, 62.5, 2021, 62.5, 2022, 62.5, 2023, 62.5, 2024, 62.5, 2025, 62.5, 2026, 62.5, 2027, 62.5, 2028, 62.5, 2029, 62.5, 2030, 62.5, 2031, 62.5, 2032, 62.5, 2033, 62.5, 2034, 62.5, 2035, 62.5, 2036, 62.5, 2037, 62.5, 2038, 62.5, 2039, 62.5, 2040, 62.5, 2041, 62.5, 2042, 62.5, 2043, 62.5, 2044, 62.5, 2045, 62.5, 2046, 62.5, 2047, 62.5, 2048, 62.5, 2049, 62.5, 2050, 62.5)
Naphtha	4.70	Step(1984, 4.7, 1985, 4.7, 1986, 4.7, 1987, 4.7, 1988, 4.7, 1989, 4.7, 1990, 4.7, 1991, 4.7, 1992, 4.7, 1993, 4.7, 1994, 4.7, 1995, 4.7, 1996, 4.7, 1997, 4.7, 1998, 4.7, 1999, 4.7, 2000, 4.7, 2001, 4.7, 2002, 4.7, 2003, 4.7, 2004, 4.7, 2005, 4.7, 2006, 4.7, 2007, 4.7, 2008, 4.7, 2009, 4.7, 2010, 4.7, 2011, 4.7, 2012, 4.7, 2013, 4.7, 2014, 4.7, 2015, 4.7, 2016, 4.7, 2017, 4.7, 2018, 4.7, 2019, 4.7, 2020, 4.7, 2021, 4.7, 2022, 4.7, 2023, 4.7, 2024, 4.7, 2025, 4.7, 2026, 4.7, 2027, 4.7, 2028, 4.7, 2029, 4.7, 2030, 4.7, 2031, 4.7, 2032, 4.7, 2033, 4.7, 2034, 4.7, 2035, 4.7, 2036, 4.7, 2037, 4.7, 2038, 4.7, 2039, 4.7, 2040, 4.7, 2041, 4.7, 2042, 4.7, 2043, 4.7, 2044, 4.7, 2045, 4.7, 2046, 4.7, 2047, 4.7, 2048, 4.7, 2049, 4.7, 2050, 4.7)
LPG	0.00	Step(1984, 0, 1985, 0, 1986, 0, 1987, 0, 1988, 0, 1989, 0, 1990, 0, 1991, 0, 1992, 0, 1993, 0, 1994, 0, 1995, 0, 1996, 0, 1997, 0, 1998, 0, 1999, 0, 2000, 0, 2001, 0, 2002, 0, 2003, 0, 2004, 0, 2005, 0, 2006, 0, 2007, 0, 2008, 0, 2009, 0, 2010, 0, 2011, 0, 2012, 0, 2013, 0, 2014, 0, 2015, 0, 2016, 0, 2017, 0, 2018, 0, 2019, 0, 2020, 0, 2021, 0, 2022, 0, 2023, 0, 2024, 0, 2025, 0, 2026, 0, 2027, 0, 2028, 0, 2029, 0, 2030, 0, 2031, 0, 2032, 0, 2033, 0, 2034, 0, 2035, 0, 2036, 0, 2037, 0, 2038, 0, 2039, 0, 2040, 0, 2041, 0, 2042, 0, 2043, 0, 2044, 0, 2045, 0, 2046, 0, 2047, 0, 2048, 0, 2049, 0, 2050, 0)
Natural Gas	13,143.90	Interp(1984, 0.00, 1985, 100, 1986, 400, 1987, 800, 1988, 1555.2, 1989, 2035.8, 1990, 2210, 1991, 2555.4, 1992, 2591.7, 1993, 2700.5, 1994, 2823.1, 1995, 2946.7, 1996, 3071.3, 1997, 3196.9, 1998, 3322.5, 1999, 3448.1, 2000, 3573.7, 2001, 3699.3, 2002, 3824.9, 2003, 3950.5, 2004, 4076.1, 2005, 4201.7, 2006, 4327.3, 2007, 4452.9, 2008, 4578.5, 2009, 4704.1, 2010, 4829.7, 2011, 4955.3, 2012, 5080.9, 2013, 5206.5, 2014, 5332.1, 2015, 5457.7, 2016, 5583.3, 2017, 5708.9, 2018, 5834.5, 2019, 5960.1, 2020, 6085.7, 2021, 6211.3, 2022, 6336.9, 2023, 6462.5, 2024, 6588.1, 2025, 6713.7, 2026, 6839.3, 2027, 6964.9, 2028, 7090.5, 2029, 7216.1, 2030, 7341.7, 2031, 7467.3, 2032, 7592.9, 2033, 7718.5, 2034, 7844.1, 2035, 7969.7, 2036, 8095.3, 2037, 8220.9, 2038, 8346.5, 2039, 8472.1, 2040, 8597.7, 2041, 8723.3, 2042, 8848.9, 2043, 8974.5, 2044, 9100.1, 2045, 9225.7, 2046, 9351.3, 2047, 9476.9, 2048, 9602.5, 2049, 9728.1, 2050, 9853.7)
Hydro	17,137.10	Interp(1984, 3874.8, 1985, 3874.8, 1986, 3874.8, 1987, 3874.8, 1988, 3874.8, 1989, 3874.8, 1990, 3874.8, 1991, 3874.8, 1992, 3874.8, 1993, 3874.8, 1994, 3874.8, 1995, 3874.8, 1996, 3874.8, 1997, 3874.8, 1998, 3874.8, 1999, 3874.8, 2000, 3874.8, 2001, 3874.8, 2002, 3874.8, 2003, 3874.8, 2004, 3874.8, 2005, 3874.8, 2006, 3874.8, 2007, 3874.8, 2008, 3874.8, 2009, 3874.8, 2010, 3874.8, 2011, 3874.8, 2012, 3874.8, 2013, 3874.8, 2014, 3874.8, 2015, 3874.8, 2016, 3874.8, 2017, 3874.8, 2018, 3874.8, 2019, 3874.8, 2020, 3874.8, 2021, 3874.8, 2022, 3874.8, 2023, 3874.8, 2024, 3874.8, 2025, 3874.8, 2026, 3874.8, 2027, 3874.8, 2028, 3874.8, 2029, 3874.8, 2030, 3874.8, 2031, 3874.8, 2032, 3874.8, 2033, 3874.8, 2034, 3874.8, 2035, 3874.8, 2036, 3874.8, 2037, 3874.8, 2038, 3874.8, 2039, 3874.8, 2040, 3874.8, 2041, 3874.8, 2042, 3874.8, 2043, 3874.8, 2044, 3874.8, 2045, 3874.8, 2046, 3874.8, 2047, 3874.8, 2048, 3874.8, 2049, 3874.8, 2050, 3874.8)
Coal	4,351.00	Step(1984, 219.9, 1985, 219.9, 1986, 219.9, 1987, 219.9, 1988, 219.9, 1989, 219.9, 1990, 219.9, 1991, 219.9, 1992, 219.9, 1993, 219.9, 1994, 219.9, 1995, 219.9, 1996, 219.9, 1997, 219.9, 1998, 219.9, 1999, 219.9, 2000, 219.9, 2001, 219.9, 2002, 219.9, 2003, 219.9, 2004, 219.9, 2005, 219.9, 2006, 219.9, 2007, 219.9, 2008, 219.9, 2009, 219.9, 2010, 219.9, 2011, 219.9, 2012, 219.9, 2013, 219.9, 2014, 219.9, 2015, 219.9, 2016, 219.9, 2017, 219.9, 2018, 219.9, 2019, 219.9, 2020, 219.9, 2021, 219.9, 2022, 219.9, 2023, 219.9, 2024, 219.9, 2025, 219.9, 2026, 219.9, 2027, 219.9, 2028, 219.9, 2029, 219.9, 2030, 219.9, 2031, 219.9, 2032, 219.9, 2033, 219.9, 2034, 219.9, 2035, 219.9, 2036, 219.9, 2037, 219.9, 2038, 219.9, 2039, 219.9, 2040, 219.9, 2041, 219.9, 2042, 219.9, 2043, 219.9, 2044, 219.9, 2045, 219.9, 2046, 219.9, 2047, 219.9, 2048, 219.9, 2049, 219.9, 2050, 219.9)
Lignite	8,199.30	Step(1984, 2359.3, 1985, 2359.3, 1986, 2359.3, 1987, 2359.3, 1988, 2359.3, 1989, 2359.3, 1990, 2359.3, 1991, 2359.3, 1992, 2359.3, 1993, 2359.3, 1994, 2359.3, 1995, 2359.3, 1996, 2359.3, 1997, 2359.3, 1998, 2359.3, 1999, 2359.3, 2000, 2359.3, 2001, 2359.3, 2002, 2359.3, 2003, 2359.3, 2004, 2359.3, 2005, 2359.3, 2006, 2359.3, 2007, 2359.3, 2008, 2359.3, 2009, 2359.3, 2010, 2359.3, 2011, 2359.3, 2012, 2359.3, 2013, 2359.3, 2014, 2359.3, 2015, 2359.3, 2016, 2359.3, 2017, 2359.3, 2018, 2359.3, 2019, 2359.3, 2020, 2359.3, 2021, 2359.3, 2022, 2359.3, 2023, 2359.3, 2024, 2359.3, 2025, 2359.3, 2026, 2359.3, 2027, 2359.3, 2028, 2359.3, 2029, 2359.3, 2030, 2359.3, 2031, 2359.3, 2032, 2359.3, 2033, 2359.3, 2034, 2359.3, 2035, 2359.3, 2036, 2359.3, 2037, 2359.3, 2038, 2359.3, 2039, 2359.3, 2040, 2359.3, 2041, 2359.3, 2042, 2359.3, 2043, 2359.3, 2044, 2359.3, 2045, 2359.3, 2046, 2359.3, 2047, 2359.3, 2048, 2359.3, 2049, 2359.3, 2050, 2359.3)
Biogas and Wastes	125.70	Step(1984, 0.0, 1985, 0.0, 1986, 0.0, 1987, 0.0, 1988, 0.0, 1989, 0.0, 1990, 0.0, 1991, 0.0, 1992, 0.0, 1993, 0.0, 1994, 0.0, 1995, 0.0, 1996, 0.0, 1997, 0.0, 1998, 0.0, 1999, 0.0, 2000, 0.0, 2001, 0.0, 2002, 0.0, 2003, 0.0, 2004, 0.0, 2005, 0.0, 2006, 0.0, 2007, 0.0, 2008, 0.0, 2009, 0.0, 2010, 0.0, 2011, 0.0, 2012, 0.0, 2013, 0.0, 2014, 0.0, 2015, 0.0, 2016, 0.0, 2017, 0.0, 2018, 0.0, 2019, 0.0, 2020, 0.0, 2021, 0.0, 2022, 0.0, 2023, 0.0, 2024, 0.0, 2025, 0.0, 2026, 0.0, 2027, 0.0, 2028, 0.0, 2029, 0.0, 2030, 0.0, 2031, 0.0, 2032, 0.0, 2033, 0.0, 2034, 0.0, 2035, 0.0, 2036, 0.0, 2037, 0.0, 2038, 0.0, 2039, 0.0, 2040, 0.0, 2041, 0.0, 2042, 0.0, 2043, 0.0, 2044, 0.0, 2045, 0.0, 2046, 0.0, 2047, 0.0, 2048, 0.0, 2049, 0.0, 2050, 0.0)
Wind	1,590.30	Interp(1984, 0.0, 1985, 8.7, 1986, 8.7, 1987, 8.7, 1988, 8.7, 1989, 8.7, 1990, 8.7, 1991, 8.7, 1992, 8.7, 1993, 8.7, 1994, 8.7, 1995, 8.7, 1996, 8.7, 1997, 8.7, 1998, 8.7, 1999, 8.7, 2000, 8.7, 2001, 8.7, 2002, 8.7, 2003, 8.7, 2004, 8.7, 2005, 8.7, 2006, 8.7, 2007, 8.7, 2008, 8.7, 2009, 8.7, 2010, 8.7, 2011, 8.7, 2012, 8.7, 2013, 8.7, 2014, 8.7, 2015, 8.7, 2016, 8.7, 2017, 8.7, 2018, 8.7, 2019, 8.7, 2020, 8.7, 2021, 8.7, 2022, 8.7, 2023, 8.7, 2024, 8.7, 2025, 8.7, 2026, 8.7, 2027, 8.7, 2028, 8.7, 2029, 8.7, 2030, 8.7, 2031, 8.7, 2032, 8.7, 2033, 8.7, 2034, 8.7, 2035, 8.7, 2036, 8.7, 2037, 8.7, 2038, 8.7, 2039, 8.7, 2040, 8.7, 2041, 8.7, 2042, 8.7, 2043, 8.7, 2044, 8.7, 2045, 8.7, 2046, 8.7, 2047, 8.7, 2048, 8.7, 2049, 8.7, 2050, 8.7)
Solar	0.00	Step(1984, 0, 1985, 0, 1986, 0, 1987, 0, 1988, 0, 1989, 0, 1990, 0, 1991, 0, 1992, 0, 1993, 0, 1994, 0, 1995, 0, 1996, 0, 1997, 0, 1998, 0, 1999, 0, 2000, 0, 2001, 0, 2002, 0, 2003, 0, 2004, 0, 2005, 0, 2006, 0, 2007, 0, 2008, 0, 2009, 0, 2010, 0, 2011, 0, 2012, 0, 2013, 0, 2014, 0, 2015, 0, 2016, 0, 2017, 0, 2018, 0, 2019, 0, 2020, 0, 2021, 0, 2022, 0, 2023, 0, 2024, 0, 2025, 0, 2026, 0, 2027, 0, 2028, 0, 2029, 0, 2030, 0, 2031, 0, 2032, 0, 2033, 0, 2034, 0, 2035, 0, 2036, 0, 2037, 0, 2038, 0, 2039, 0, 2040, 0, 2041, 0, 2042, 0, 2043, 0, 2044, 0, 2045, 0, 2046, 0, 2047, 0, 2048, 0, 2049, 0, 2050, 0)
Geothermal	114.20	Step(1984, 15, 2006, 22.951, 2008, 29.801, 2009, 77.201, 2010, 94.201, 2011, 114.201, 2012, 114.201, 2013, 114.201, 2014, 114.201, 2015, 114.201, 2016, 114.201, 2017, 114.201, 2018, 114.201, 2019, 114.201, 2020, 114.201, 2021, 114.201, 2022, 114.201, 2023, 114.201, 2024, 114.201, 2025, 114.201, 2026, 114.201, 2027, 114.201, 2028, 114.201, 2029, 114.201, 2030, 114.201, 2031, 114.201, 2032, 114.201, 2033, 114.201, 2034, 114.201, 2035, 114.201, 2036, 114.201, 2037, 114.201, 2038, 114.201, 2039, 114.201, 2040, 114.201, 2041, 114.201, 2042, 114.201, 2043, 114.201, 2044, 114.201, 2045, 114.201, 2046, 114.201, 2047, 114.201, 2048, 114.201, 2049, 114.201, 2050, 114.201)
Nuclear	0.00	Step(1984, 0, 2020, 1200, 2021, 2400, 2022, 2400, 2023, 2400, 2024, 2400, 2025, 2400, 2026, 2400, 2027, 2400, 2028, 2400, 2029, 2400, 2030, 2400, 2031, 2400, 2032, 2400, 2033, 2400, 2034, 2400, 2035, 2400, 2036, 2400, 2037, 2400, 2038, 2400, 2039, 2400, 2040, 2400, 2041, 2400, 2042, 2400, 2043, 2400, 2044, 2400, 2045, 2400, 2046, 2400, 2047, 2400, 2048, 2400, 2049, 2400, 2050, 2400)

Function Wizard

Preview
Interp(1984, 15, 2006, 22.951, 2008, 29.801, 2009, 77.201, 2010, 94.201, 2011, 114.201, 2023.600) = 600.00 in 2050

Function Type: All
Function: Interp
Description: Calculates a value in any given year by linear interpolation of a time-series of year/value pairs. In a scenario the base year value is implicitly included.

Parameters
Parameter 1: 1984, 15, 2006, 22.951, 2008, 29.801, 2009, 77.201, 2010, 94.201, 2011, 114.201, 2023.600

All required parameters OK.

OK Cancel Help More

Jeotermal

LEAP: Turkey 3.0 (1)

Area Edit View Analysis General Tree Chart Advanced Help

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Views Manage Scenarios Branch: Transformation\Electric Generation\Processes\Geothermal\...

Key Assumptions
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Coke Production
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Processes
Fuel Oil
Diesel Oil
Naphtha
LPG
Natural Gas
Hydro
Coal
Lignite
Biogas and Was
Wind
Solar
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Auxiliary Fuels
Nuclear
Refinery
Stock Changes

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Time-Series Wizard

Add Delete % %

Year	Value
1984	15,00
2006	22,95
2008	29,80
2009	77,20
2010	94,20
2011	114,20
2023	600

Preview

☒ Allow dragging of values

Values

Years

Function

Interp(1984; 15; 2006; 22,951; 2008; 29,801; 2009; 77,201; 2010; 94,201; 2011; 114,201)

Growth after last year: 0,0 %

Previous Next Finish Cancel Help

Submit Branch/Variable Function Time

Step(1984; 15; 2006; 22,951; 2008; 29,801; 2009; 77,201; 2010; 94,201; 2011; 114,201)

Expression Builder

See also: [Analysis View](#), [Expressions](#), [Examples of Expressions](#)

2012.0.0.30 Area: Turkey 3.0 (1) Analysis Registered to mizgi@enerji.gov.tr until Kasim 5, 2014 LEAP: Turkey 3.0 (1)

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Doğal Gaz

The screenshot displays the LEAP Turkey 3.0 strategy software interface. The left sidebar shows a tree view of the model structure, with 'Natural Gas' selected under 'Electric Generation'. The main window shows the 'Exogenous Capacity' table, which lists various energy sources and their capacity values over time. A red rectangle highlights the 'Natural Gas' row in the table.

Branch	2011 Value	Expression
Fuel Oil	1,233.20	Step(1984, 1100.5, 1985, 1100.5, 1986, 1100.5, 1987, 1197.4, 1988, 1197.4, 1989, 1194.4, 1990, 1202.2, 1991, 1191.4, 1992, 1157, 1993, 1163.3, 1994, 1163.3, 1995, 1163.3, 1996, 1163.3, 1997, 1163.3, 1998, 1163.3, 1999, 1163.3, 2000, 1163.3, 2001, 1163.3, 2002, 1163.3, 2003, 1163.3, 2004, 1163.3, 2005, 1163.3, 2006, 1163.3, 2007, 1163.3, 2008, 1163.3, 2009, 1163.3, 2010, 1163.3, 2011, 1163.3, 2012, 1163.3, 2013, 1163.3, 2014, 1163.3, 2015, 1163.3, 2016, 1163.3, 2017, 1163.3, 2018, 1163.3, 2019, 1163.3, 2020, 1163.3, 2021, 1163.3, 2022, 1163.3, 2023, 1163.3, 2024, 1163.3, 2025, 1163.3, 2026, 1163.3, 2027, 1163.3, 2028, 1163.3, 2029, 1163.3, 2030, 1163.3, 2031, 1163.3, 2032, 1163.3, 2033, 1163.3, 2034, 1163.3, 2035, 1163.3, 2036, 1163.3, 2037, 1163.3, 2038, 1163.3, 2039, 1163.3, 2040, 1163.3, 2041, 1163.3, 2042, 1163.3, 2043, 1163.3, 2044, 1163.3, 2045, 1163.3, 2046, 1163.3, 2047, 1163.3, 2048, 1163.3, 2049, 1163.3, 2050, 1163.3)
Diesel Oil	62.50	Step(1984, 62.5, 1985, 62.5, 1986, 62.5, 1987, 62.5, 1988, 62.5, 1989, 62.5, 1990, 62.5, 1991, 62.5, 1992, 62.5, 1993, 62.5, 1994, 62.5, 1995, 62.5, 1996, 62.5, 1997, 62.5, 1998, 62.5, 1999, 62.5, 2000, 62.5, 2001, 62.5, 2002, 62.5, 2003, 62.5, 2004, 62.5, 2005, 62.5, 2006, 62.5, 2007, 62.5, 2008, 62.5, 2009, 62.5, 2010, 62.5, 2011, 62.5, 2012, 62.5, 2013, 62.5, 2014, 62.5, 2015, 62.5, 2016, 62.5, 2017, 62.5, 2018, 62.5, 2019, 62.5, 2020, 62.5, 2021, 62.5, 2022, 62.5, 2023, 62.5, 2024, 62.5, 2025, 62.5, 2026, 62.5, 2027, 62.5, 2028, 62.5, 2029, 62.5, 2030, 62.5, 2031, 62.5, 2032, 62.5, 2033, 62.5, 2034, 62.5, 2035, 62.5, 2036, 62.5, 2037, 62.5, 2038, 62.5, 2039, 62.5, 2040, 62.5, 2041, 62.5, 2042, 62.5, 2043, 62.5, 2044, 62.5, 2045, 62.5, 2046, 62.5, 2047, 62.5, 2048, 62.5, 2049, 62.5, 2050, 62.5)
Naphtha	4.70	Step(1984, 4.7, 1985, 4.7, 1986, 4.7, 1987, 4.7, 1988, 4.7, 1989, 4.7, 1990, 4.7, 1991, 4.7, 1992, 4.7, 1993, 4.7, 1994, 4.7, 1995, 4.7, 1996, 4.7, 1997, 4.7, 1998, 4.7, 1999, 4.7, 2000, 4.7, 2001, 4.7, 2002, 4.7, 2003, 4.7, 2004, 4.7, 2005, 4.7, 2006, 4.7, 2007, 4.7, 2008, 4.7, 2009, 4.7, 2010, 4.7, 2011, 4.7, 2012, 4.7, 2013, 4.7, 2014, 4.7, 2015, 4.7, 2016, 4.7, 2017, 4.7, 2018, 4.7, 2019, 4.7, 2020, 4.7, 2021, 4.7, 2022, 4.7, 2023, 4.7, 2024, 4.7, 2025, 4.7, 2026, 4.7, 2027, 4.7, 2028, 4.7, 2029, 4.7, 2030, 4.7, 2031, 4.7, 2032, 4.7, 2033, 4.7, 2034, 4.7, 2035, 4.7, 2036, 4.7, 2037, 4.7, 2038, 4.7, 2039, 4.7, 2040, 4.7, 2041, 4.7, 2042, 4.7, 2043, 4.7, 2044, 4.7, 2045, 4.7, 2046, 4.7, 2047, 4.7, 2048, 4.7, 2049, 4.7, 2050, 4.7)
LPG	0.00	Step(1984, 0, 1985, 0, 1986, 0, 1987, 0, 1988, 0, 1989, 0, 1990, 0, 1991, 0, 1992, 0, 1993, 0, 1994, 0, 1995, 0, 1996, 0, 1997, 0, 1998, 0, 1999, 0, 2000, 0, 2001, 0, 2002, 0, 2003, 0, 2004, 0, 2005, 0, 2006, 0, 2007, 0, 2008, 0, 2009, 0, 2010, 0, 2011, 0, 2012, 0, 2013, 0, 2014, 0, 2015, 0, 2016, 0, 2017, 0, 2018, 0, 2019, 0, 2020, 0, 2021, 0, 2022, 0, 2023, 0, 2024, 0, 2025, 0, 2026, 0, 2027, 0, 2028, 0, 2029, 0, 2030, 0, 2031, 0, 2032, 0, 2033, 0, 2034, 0, 2035, 0, 2036, 0, 2037, 0, 2038, 0, 2039, 0, 2040, 0, 2041, 0, 2042, 0, 2043, 0, 2044, 0, 2045, 0, 2046, 0, 2047, 0, 2048, 0, 2049, 0, 2050, 0)
Natural Gas	13,143.90	Interp(1984, 0.00, 1985, 100, 1986, 400, 1987, 800, 1988, 1555.2, 1989, 2035.8, 1990, 2210, 1991, 2555.4, 1992, 2591.7, 1993, 2700.5, 1994, 2823.9, 1995, 2883.9, 1996, 3051.2, 1997, 3490.4, 1998, 4047.1, 1999, 4958.8, 2000, 4904.5, 2001, 4950.7, 2002, 7247.1, 2003, 8861.8, 2004, 10131.2, 2005, 10976.2, 2006, 11462.2, 2007, 11647.4, 2008, 10656.762, 2009, 11825.6, 2010, 13302.1, 2011, 13143.9, 2012, 16491.0)
Hydro	17,137.10	Interp(1984, 3874.8, 1985, 3874.8, 1986, 3877.5, 1987, 5003.3, 1988, 6218.3, 1989, 6597.3, 1990, 6764.3, 1991, 7113.8, 1992, 8378.7, 1993, 9681.7, 1994, 10984.7, 1995, 12297.7, 1996, 13610.7, 1997, 14923.7, 1998, 16236.7, 1999, 17549.7, 2000, 18862.7, 2001, 20175.7, 2002, 21488.7, 2003, 22801.7, 2004, 24114.7, 2005, 25427.7, 2006, 26740.7, 2007, 28053.7, 2008, 29366.7, 2009, 30679.7, 2010, 31992.7, 2011, 33305.7, 2012, 34618.7, 2013, 35931.7, 2014, 37244.7, 2015, 38557.7, 2016, 39870.7, 2017, 41183.7, 2018, 42496.7, 2019, 43809.7, 2020, 45122.7, 2021, 46435.7, 2022, 47748.7, 2023, 49061.7, 2024, 50374.7, 2025, 51687.7, 2026, 52999.7, 2027, 54312.7, 2028, 55625.7, 2029, 56938.7, 2030, 58251.7, 2031, 59564.7, 2032, 60877.7, 2033, 62190.7, 2034, 63503.7, 2035, 64816.7, 2036, 66129.7, 2037, 67442.7, 2038, 68755.7, 2039, 70068.7, 2040, 71381.7, 2041, 72694.7, 2042, 74007.7, 2043, 75320.7, 2044, 76633.7, 2045, 77946.7, 2046, 79259.7, 2047, 80572.7, 2048, 81885.7, 2049, 83198.7, 2050, 84511.7)
Coal	4,351.00	Step(1984, 4351, 1985, 4351, 1986, 4351, 1987, 4351, 1988, 4351, 1989, 4351, 1990, 4351, 1991, 4351, 1992, 4351, 1993, 4351, 1994, 4351, 1995, 4351, 1996, 4351, 1997, 4351, 1998, 4351, 1999, 4351, 2000, 4351, 2001, 4351, 2002, 4351, 2003, 4351, 2004, 4351, 2005, 4351, 2006, 4351, 2007, 4351, 2008, 4351, 2009, 4351, 2010, 4351, 2011, 4351, 2012, 4351, 2013, 4351, 2014, 4351, 2015, 4351, 2016, 4351, 2017, 4351, 2018, 4351, 2019, 4351, 2020, 4351, 2021, 4351, 2022, 4351, 2023, 4351, 2024, 4351, 2025, 4351, 2026, 4351, 2027, 4351, 2028, 4351, 2029, 4351, 2030, 4351, 2031, 4351, 2032, 4351, 2033, 4351, 2034, 4351, 2035, 4351, 2036, 4351, 2037, 4351, 2038, 4351, 2039, 4351, 2040, 4351, 2041, 4351, 2042, 4351, 2043, 4351, 2044, 4351, 2045, 4351, 2046, 4351, 2047, 4351, 2048, 4351, 2049, 4351, 2050, 4351)
Lignite	8,199.30	Step(1984, 8199.3, 1985, 8199.3, 1986, 8199.3, 1987, 8199.3, 1988, 8199.3, 1989, 8199.3, 1990, 8199.3, 1991, 8199.3, 1992, 8199.3, 1993, 8199.3, 1994, 8199.3, 1995, 8199.3, 1996, 8199.3, 1997, 8199.3, 1998, 8199.3, 1999, 8199.3, 2000, 8199.3, 2001, 8199.3, 2002, 8199.3, 2003, 8199.3, 2004, 8199.3, 2005, 8199.3, 2006, 8199.3, 2007, 8199.3, 2008, 8199.3, 2009, 8199.3, 2010, 8199.3, 2011, 8199.3, 2012, 8199.3, 2013, 8199.3, 2014, 8199.3, 2015, 8199.3, 2016, 8199.3, 2017, 8199.3, 2018, 8199.3, 2019, 8199.3, 2020, 8199.3, 2021, 8199.3, 2022, 8199.3, 2023, 8199.3, 2024, 8199.3, 2025, 8199.3, 2026, 8199.3, 2027, 8199.3, 2028, 8199.3, 2029, 8199.3, 2030, 8199.3, 2031, 8199.3, 2032, 8199.3, 2033, 8199.3, 2034, 8199.3, 2035, 8199.3, 2036, 8199.3, 2037, 8199.3, 2038, 8199.3, 2039, 8199.3, 2040, 8199.3, 2041, 8199.3, 2042, 8199.3, 2043, 8199.3, 2044, 8199.3, 2045, 8199.3, 2046, 8199.3, 2047, 8199.3, 2048, 8199.3, 2049, 8199.3, 2050, 8199.3)
Biogas and Wastes	125.70	Step(1984, 125.7, 1985, 125.7, 1986, 125.7, 1987, 125.7, 1988, 125.7, 1989, 125.7, 1990, 125.7, 1991, 125.7, 1992, 125.7, 1993, 125.7, 1994, 125.7, 1995, 125.7, 1996, 125.7, 1997, 125.7, 1998, 125.7, 1999, 125.7, 2000, 125.7, 2001, 125.7, 2002, 125.7, 2003, 125.7, 2004, 125.7, 2005, 125.7, 2006, 125.7, 2007, 125.7, 2008, 125.7, 2009, 125.7, 2010, 125.7, 2011, 125.7, 2012, 125.7, 2013, 125.7, 2014, 125.7, 2015, 125.7, 2016, 125.7, 2017, 125.7, 2018, 125.7, 2019, 125.7, 2020, 125.7, 2021, 125.7, 2022, 125.7, 2023, 125.7, 2024, 125.7, 2025, 125.7, 2026, 125.7, 2027, 125.7, 2028, 125.7, 2029, 125.7, 2030, 125.7, 2031, 125.7, 2032, 125.7, 2033, 125.7, 2034, 125.7, 2035, 125.7, 2036, 125.7, 2037, 125.7, 2038, 125.7, 2039, 125.7, 2040, 125.7, 2041, 125.7, 2042, 125.7, 2043, 125.7, 2044, 125.7, 2045, 125.7, 2046, 125.7, 2047, 125.7, 2048, 125.7, 2049, 125.7, 2050, 125.7)
Wind	1,590.30	Interp(1984, 0, 1985, 8.7, 1986, 8.7, 1987, 8.7, 1988, 8.7, 1989, 8.7, 1990, 8.7, 1991, 8.7, 1992, 8.7, 1993, 8.7, 1994, 8.7, 1995, 8.7, 1996, 8.7, 1997, 8.7, 1998, 8.7, 1999, 8.7, 2000, 8.7, 2001, 8.7, 2002, 8.7, 2003, 8.7, 2004, 8.7, 2005, 8.7, 2006, 8.7, 2007, 8.7, 2008, 8.7, 2009, 8.7, 2010, 8.7, 2011, 8.7, 2012, 8.7, 2013, 8.7, 2014, 8.7, 2015, 8.7, 2016, 8.7, 2017, 8.7, 2018, 8.7, 2019, 8.7, 2020, 8.7, 2021, 8.7, 2022, 8.7, 2023, 8.7, 2024, 8.7, 2025, 8.7, 2026, 8.7, 2027, 8.7, 2028, 8.7, 2029, 8.7, 2030, 8.7, 2031, 8.7, 2032, 8.7, 2033, 8.7, 2034, 8.7, 2035, 8.7, 2036, 8.7, 2037, 8.7, 2038, 8.7, 2039, 8.7, 2040, 8.7, 2041, 8.7, 2042, 8.7, 2043, 8.7, 2044, 8.7, 2045, 8.7, 2046, 8.7, 2047, 8.7, 2048, 8.7, 2049, 8.7, 2050, 8.7)
Solar	0.00	Step(1984, 0, 1985, 0, 1986, 0, 1987, 0, 1988, 0, 1989, 0, 1990, 0, 1991, 0, 1992, 0, 1993, 0, 1994, 0, 1995, 0, 1996, 0, 1997, 0, 1998, 0, 1999, 0, 2000, 0, 2001, 0, 2002, 0, 2003, 0, 2004, 0, 2005, 0, 2006, 0, 2007, 0, 2008, 0, 2009, 0, 2010, 0, 2011, 0, 2012, 0, 2013, 0, 2014, 0, 2015, 0, 2016, 0, 2017, 0, 2018, 0, 2019, 0, 2020, 0, 2021, 0, 2022, 0, 2023, 0, 2024, 0, 2025, 0, 2026, 0, 2027, 0, 2028, 0, 2029, 0, 2030, 0, 2031, 0, 2032, 0, 2033, 0, 2034, 0, 2035, 0, 2036, 0, 2037, 0, 2038, 0, 2039, 0, 2040, 0, 2041, 0, 2042, 0, 2043, 0, 2044, 0, 2045, 0, 2046, 0, 2047, 0, 2048, 0, 2049, 0, 2050, 0)
Geothermal	114.20	Step(1984, 114.2, 1985, 114.2, 1986, 114.2, 1987, 114.2, 1988, 114.2, 1989, 114.2, 1990, 114.2, 1991, 114.2, 1992, 114.2, 1993, 114.2, 1994, 114.2, 1995, 114.2, 1996, 114.2, 1997, 114.2, 1998, 114.2, 1999, 114.2, 2000, 114.2, 2001, 114.2, 2002, 114.2, 2003, 114.2, 2004, 114.2, 2005, 114.2, 2006, 114.2, 2007, 114.2, 2008, 114.2, 2009, 114.2, 2010, 114.2, 2011, 114.2, 2012, 114.2, 2013, 114.2, 2014, 114.2, 2015, 114.2, 2016, 114.2, 2017, 114.2, 2018, 114.2, 2019, 114.2, 2020, 114.2, 2021, 114.2, 2022, 114.2, 2023, 114.2, 2024, 114.2, 2025, 114.2, 2026, 114.2, 2027, 114.2, 2028, 114.2, 2029, 114.2, 2030, 114.2, 2031, 114.2, 2032, 114.2, 2033, 114.2, 2034, 114.2, 2035, 114.2, 2036, 114.2, 2037, 114.2, 2038, 114.2, 2039, 114.2, 2040, 114.2, 2041, 114.2, 2042, 114.2, 2043, 114.2, 2044, 114.2, 2045, 114.2, 2046, 114.2, 2047, 114.2, 2048, 114.2, 2049, 114.2, 2050, 114.2)
Nuclear	0.00	Step(1984, 0, 1985, 0, 1986, 0, 1987, 0, 1988, 0, 1989, 0, 1990, 0, 1991, 0, 1992, 0, 1993, 0, 1994, 0, 1995, 0, 1996, 0, 1997, 0, 1998, 0, 1999, 0, 2000, 0, 2001, 0, 2002, 0, 2003, 0, 2004, 0, 2005, 0, 2006, 0, 2007, 0, 2008, 0, 2009, 0, 2010, 0, 2011, 0, 2012, 0, 2013, 0, 2014, 0, 2015, 0, 2016, 0, 2017, 0, 2018, 0, 2019, 0, 2020, 0, 2021, 0, 2022, 0, 2023, 0, 2024, 0, 2025, 0, 2026, 0, 2027, 0, 2028, 0, 2029, 0, 2030, 0, 2031, 0, 2032, 0, 2033, 0, 2034, 0, 2035, 0, 2036, 0, 2037, 0, 2038, 0, 2039, 0, 2040, 0, 2041, 0, 2042, 0, 2043, 0, 2044, 0, 2045, 0, 2046, 0, 2047, 0, 2048, 0, 2049, 0, 2050, 0)
Total:	45962	100,867.40 in 2050

Hidroelektrik Kurulu Güç

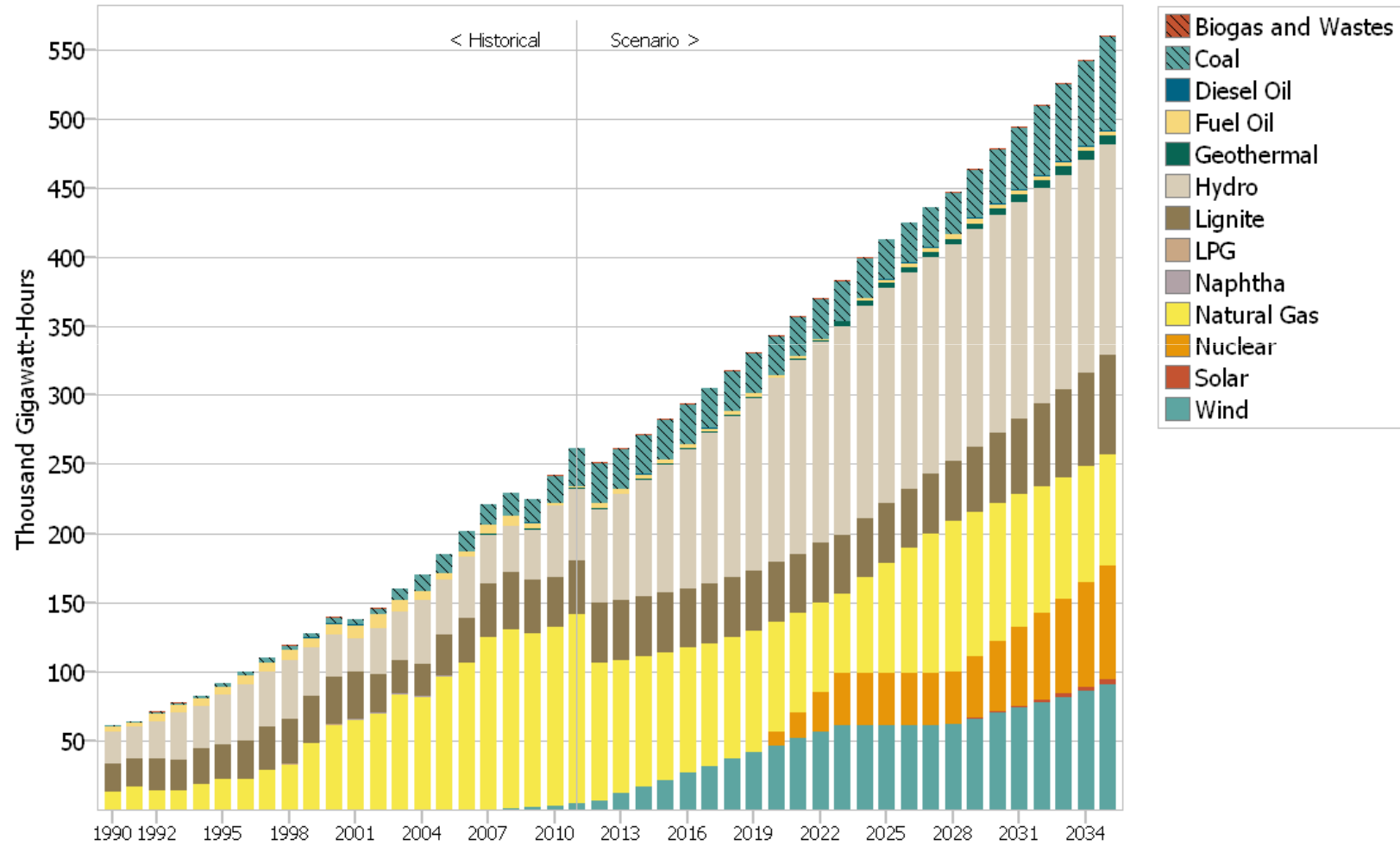
The screenshot displays the EnergyPLAN software interface. The 'Branch' is set to 'All Branches' and the 'Variable' is 'Exogenous Capacity'. The 'Scenario' is 'STR: STRATEGY PAPER'. The 'Units' are 'Megawatt' and 'of production capacity'. The 'Exogenous Capacity' variable is defined as 'Exogenously specified capacity: current and future committed capacity'.

Branch	2011 Value	Expression
Fuel Oil	1,233.20	Step(1984, 1100.5, 1985, 1100.5, 1986, 1100.5, 1987, 1197.4, 1988, 1197.4, 1989, 1194.4, 1990, 1202.2, 1991, 1191.4, 1992, 1157, 1993, 1163.3, 1994, 1163.3, 1995, 1163.3, 1996, 1163.3, 1997, 1163.3, 1998, 1163.3, 1999, 1163.3, 2000, 1163.3, 2001, 1163.3, 2002, 1163.3, 2003, 1163.3, 2004, 1163.3, 2005, 1163.3, 2006, 1163.3, 2007, 1163.3, 2008, 1163.3, 2009, 1163.3, 2010, 1163.3, 2011, 1163.3, 2012, 1163.3, 2013, 1163.3, 2014, 1163.3, 2015, 1163.3, 2016, 1163.3, 2017, 1163.3, 2018, 1163.3, 2019, 1163.3, 2020, 1163.3, 2021, 1163.3, 2022, 1163.3, 2023, 1163.3, 2024, 1163.3, 2025, 1163.3, 2026, 1163.3, 2027, 1163.3, 2028, 1163.3, 2029, 1163.3, 2030, 1163.3, 2031, 1163.3, 2032, 1163.3, 2033, 1163.3, 2034, 1163.3, 2035, 1163.3)
Diesel Oil	62.50	Step(1984, 627.3, 1985, 627.3, 1986, 625.4, 1987, 543.7, 1988, 544, 1989, 545.6, 1990, 545.6, 1991, 545.6, 1992, 372.8, 1993, 372.5, 1994, 372.5, 1995, 372.5, 1996, 372.5, 1997, 372.5, 1998, 372.5, 1999, 372.5, 2000, 372.5, 2001, 372.5, 2002, 372.5, 2003, 372.5, 2004, 372.5, 2005, 372.5, 2006, 372.5, 2007, 372.5, 2008, 372.5, 2009, 372.5, 2010, 372.5, 2011, 372.5, 2012, 372.5, 2013, 372.5, 2014, 372.5, 2015, 372.5, 2016, 372.5, 2017, 372.5, 2018, 372.5, 2019, 372.5, 2020, 372.5, 2021, 372.5, 2022, 372.5, 2023, 372.5, 2024, 372.5, 2025, 372.5, 2026, 372.5, 2027, 372.5, 2028, 372.5, 2029, 372.5, 2030, 372.5, 2031, 372.5, 2032, 372.5, 2033, 372.5, 2034, 372.5, 2035, 372.5)
Naphtha	4.70	Step(1996, 0., 1997, 4.5, 1998, 53.2, 1999, 71.6, 2000, 71.6, 2001, 131.7, 2002, 131.7, 2003, 136.7, 2004, 136.7, 2005, 136.7, 2006, 136.7, 2007, 136.7, 2008, 136.7, 2009, 136.7, 2010, 136.7, 2011, 136.7, 2012, 136.7, 2013, 136.7, 2014, 136.7, 2015, 136.7, 2016, 136.7, 2017, 136.7, 2018, 136.7, 2019, 136.7, 2020, 136.7, 2021, 136.7, 2022, 136.7, 2023, 136.7, 2024, 136.7, 2025, 136.7, 2026, 136.7, 2027, 136.7, 2028, 136.7, 2029, 136.7, 2030, 136.7, 2031, 136.7, 2032, 136.7, 2033, 136.7, 2034, 136.7, 2035, 136.7)
LPG	0.00	Step(1996, 0., 1997, 13.8, 1998, 34.2, 1999, 33.7, 2000, 23.7, 2001, 24, 2002, 24, 2003, 29.9, 2004, 10.4, 2005, 10.4, 2006, 10.4, 2007, 0)
Natural Gas	13,143.90	Interp(1984, 0.00, 1985, 100, 1986, 400, 1987, 800, 1988, 1555.2, 1989, 2035.8, 1990, 2210, 1991, 2555.4, 1992, 2591.7, 1993, 2700.5, 1994, 2823.1, 1995, 2946.4, 1996, 3071.1, 1997, 3195.8, 1998, 3320.5, 1999, 3445.2, 2000, 3569.9, 2001, 3694.6, 2002, 3819.3, 2003, 3944.0, 2004, 4068.7, 2005, 4193.4, 2006, 4318.1, 2007, 4442.8, 2008, 4567.5, 2009, 4692.2, 2010, 4816.9, 2011, 4941.6, 2012, 5066.3, 2013, 5191.0, 2014, 5315.7, 2015, 5440.4, 2016, 5565.1, 2017, 5689.8, 2018, 5814.5, 2019, 5939.2, 2020, 6063.9, 2021, 6188.6, 2022, 6313.3, 2023, 6438.0, 2024, 6562.7, 2025, 6687.4, 2026, 6812.1, 2027, 6936.8, 2028, 7061.5, 2029, 7186.2, 2030, 7310.9, 2031, 7435.6, 2032, 7560.3, 2033, 7685.0, 2034, 7809.7, 2035, 7934.4)
Hydro	17,137.10	Interp(1984, 3874.8, 1985, 3874.8, 1986, 3877.5, 1987, 5003.3, 1988, 6218.3, 1989, 6597.3, 1990, 6764.3, 1991, 7113.8, 1992, 8378.7, 1993, 9681.7, 1994, 9864.6, 1995, 9862.8, 1996, 9934.8, 1997, 10102.6, 1998, 10306.5, 1999, 10537.2, 2000, 11175.2, 2001, 11672.9, 2002, 12240.9, 2003, 12578.7, 2004, 12645.4, 2005, 12906.1, 2006, 13062.7, 2007, 13394.9, 2008, 13828.7, 2009, 14553.3, 2010, 15831.2, 2011, 17137.1, 2012, 17137.1, 2013, 17137.1, 2014, 17137.1, 2015, 17137.1, 2016, 17137.1, 2017, 17137.1, 2018, 17137.1, 2019, 17137.1, 2020, 17137.1, 2021, 17137.1, 2022, 17137.1, 2023, 17137.1, 2024, 17137.1, 2025, 17137.1, 2026, 17137.1, 2027, 17137.1, 2028, 17137.1, 2029, 17137.1, 2030, 17137.1, 2031, 17137.1, 2032, 17137.1, 2033, 17137.1, 2034, 17137.1, 2035, 17137.1)
Coal	4,351.00	Step(1984, 219.9, 1985, 219.9, 1986, 197.7, 1987, 181.6, 1988, 181.6, 1989, 331.6, 1990, 331.6, 1991, 352.6, 1992, 352.6, 1993, 352.6, 1994, 352.6, 1995, 352.6, 1996, 352.6, 1997, 352.6, 1998, 352.6, 1999, 352.6, 2000, 352.6, 2001, 352.6, 2002, 352.6, 2003, 352.6, 2004, 352.6, 2005, 352.6, 2006, 352.6, 2007, 352.6, 2008, 352.6, 2009, 352.6, 2010, 352.6, 2011, 352.6, 2012, 352.6, 2013, 352.6, 2014, 352.6, 2015, 352.6, 2016, 352.6, 2017, 352.6, 2018, 352.6, 2019, 352.6, 2020, 352.6, 2021, 352.6, 2022, 352.6, 2023, 352.6, 2024, 352.6, 2025, 352.6, 2026, 352.6, 2027, 352.6, 2028, 352.6, 2029, 352.6, 2030, 352.6, 2031, 352.6, 2032, 352.6, 2033, 352.6, 2034, 352.6, 2035, 352.6)
Lignite	8,199.30	Step(1984, 2359.3, 1985, 2864.3, 1986, 3579.3, 1987, 4434.3, 1988, 4434.3, 1989, 4713.7, 1990, 4874.1, 1991, 5040.9, 1992, 5405.1, 1993, 5608.8, 1994, 5812.5, 1995, 6016.2, 1996, 6219.9, 1997, 6423.6, 1998, 6627.3, 1999, 6831.0, 2000, 7034.7, 2001, 7238.4, 2002, 7442.1, 2003, 7645.8, 2004, 7849.5, 2005, 8053.2, 2006, 8256.9, 2007, 8460.6, 2008, 8664.3, 2009, 8868.0, 2010, 9071.7, 2011, 9275.4, 2012, 9479.1, 2013, 9682.8, 2014, 9886.5, 2015, 10090.2, 2016, 10293.9, 2017, 10497.6, 2018, 10701.3, 2019, 10905.0, 2020, 11108.7, 2021, 11312.4, 2022, 11516.1, 2023, 11719.8, 2024, 11923.5, 2025, 12127.2, 2026, 12330.9, 2027, 12534.6, 2028, 12738.3, 2029, 12942.0, 2030, 13145.7, 2031, 13349.4, 2032, 13553.1, 2033, 13756.8, 2034, 13960.5, 2035, 14164.2)
Biogas and Wastes	125.70	Step(1990, 0.0, 1991, 10, 1992, 13.8, 1993, 13.8, 1994, 13.8, 1995, 13.8, 1996, 13.8, 1997, 13.8, 1998, 22.4, 1999, 23.8, 2000, 23.8, 2001, 23.8, 2002, 23.8, 2003, 23.8, 2004, 23.8, 2005, 23.8, 2006, 23.8, 2007, 23.8, 2008, 23.8, 2009, 23.8, 2010, 23.8, 2011, 23.8, 2012, 23.8, 2013, 23.8, 2014, 23.8, 2015, 23.8, 2016, 23.8, 2017, 23.8, 2018, 23.8, 2019, 23.8, 2020, 23.8, 2021, 23.8, 2022, 23.8, 2023, 23.8, 2024, 23.8, 2025, 23.8, 2026, 23.8, 2027, 23.8, 2028, 23.8, 2029, 23.8, 2030, 23.8, 2031, 23.8, 2032, 23.8, 2033, 23.8, 2034, 23.8, 2035, 23.8)
Wind	1,590.30	Interp(1997, 0, 1998, 8.7, 1999, 8.7, 2000, 18.9, 2001, 18.9, 2002, 18.9, 2003, 18.9, 2004, 18.9, 2005, 20.1, 2006, 59, 2007, 146.3, 2008, 363.7, 2009, 681.1, 2010, 1098.5, 2011, 1515.9, 2012, 1933.3, 2013, 2350.7, 2014, 2768.1, 2015, 3185.5, 2016, 3602.9, 2017, 4020.3, 2018, 4437.7, 2019, 4855.1, 2020, 5272.5, 2021, 5689.9, 2022, 6107.3, 2023, 6524.7, 2024, 6942.1, 2025, 7359.5, 2026, 7776.9, 2027, 8194.3, 2028, 8611.7, 2029, 9029.1, 2030, 9446.5, 2031, 9863.9, 2032, 10281.3, 2033, 10698.7, 2034, 11116.1, 2035, 11533.5)
Solar	0.00	0
Geothermal	114.20	Step(1984, 15, 2006, 22.951, 2008, 29.801, 2009, 77.201, 2010, 94.201, 2011, 114.201, 2012, 134.201, 2013, 154.201, 2014, 174.201, 2015, 194.201, 2016, 214.201, 2017, 234.201, 2018, 254.201, 2019, 274.201, 2020, 294.201, 2021, 314.201, 2022, 334.201, 2023, 354.201, 2024, 374.201, 2025, 394.201, 2026, 414.201, 2027, 434.201, 2028, 454.201, 2029, 474.201, 2030, 494.201, 2031, 514.201, 2032, 534.201, 2033, 554.201, 2034, 574.201, 2035, 594.201)
Nuclear	0.00	Step(1980, 0, 2020, 1200, 2021, 2400, 2022, 3600, 2023, 4800) ? dates assumed based on plan to have 3 x 1500 mw plants BY 2023 with some

Total: 45962 100,867.40 in 2035

The 'Expression Builder' window is open, showing the expression for the 'Hydro' variable: `Interp(1984, 3874.8, 1985, 3874.8, 1986, 3877.5, 1987, 5003.3, 1988, 6218.3, 1989, 6597.3, 1990, 6764.3, 1991, 7113.8, 1992, 8378.7, 1993, 9681.7, 1994, 9864.6, 1995, 9862.8, 1996, 9934.8, 1997, 10102.6, 1998, 10306.5, 1999, 10537.2, 2000, 11175.2, 2001, 11672.9, 2002, 12240.9, 2003, 12578.7, 2004, 12645.4, 2005, 12906.1, 2006, 13062.7, 2007, 13394.9, 2008, 13828.7, 2009, 14553.3, 2010, 15831.2, 2011, 17137.1, 2012, 17137.1, 2013, 17137.1, 2014, 17137.1, 2015, 17137.1, 2016, 17137.1, 2017, 17137.1, 2018, 17137.1, 2019, 17137.1, 2020, 17137.1, 2021, 17137.1, 2022, 17137.1, 2023, 17137.1, 2024, 17137.1, 2025, 17137.1, 2026, 17137.1, 2027, 17137.1, 2028, 17137.1, 2029, 17137.1, 2030, 17137.1, 2031, 17137.1, 2032, 17137.1, 2033, 17137.1, 2034, 17137.1, 2035, 17137.1)`

Sonuç...



Sonuç tablosu

Transformation: Outputs
Scenario: STRATEGY PAPER, Fuel: All Fuels
Branch: Transformation\Electric Generation\Processes
Units: Thousand Gigawatt-Hours

	1990	2000	2010	2020	2023	2030	2035
Biogas and Wastes	0	0.22	0.458	0.826	0.826	0.826	0.826
Coal	0.621	3.819	19.104	28.586	28.586	39.624	66.85
Diesel Oil	0.021	0.981	0.004	0.095	0.024	0.365	0.746
Fuel Oil	3.921	7.459	2.144	1.88	0.477	3.401	2.897
Geothermal	0.08	0.066	0.434	0.7	3.679	4.624	7.119
Hydro	23.148	30.878	51.796	132.818	150.894	157.187	152.529
Lignite	19.561	34.367	35.942	43.096	43.096	51.295	71.52
LPG	0	0.324	0	0	0	0	0
Naphtha	0	0.547	0.032	0.007	0.002	0.013	0.011
Natural Gas	13.352	60.544	128.568	79.985	56.775	99.992	80.141
Nuclear	0	0	0	9.461	37.843	50.852	82.94
Solar	0	0	0	0	0	0.867	3.006
Wind	0	0.043	3.151	46.438	61.32	69.828	90.815
Total	60.703	139.249	241.632	343.891	383.522	478.874	559.4