

# LEAP Senaryo Uygulaması

Sanayi Sektörü Talebi Sabit

Hizmet Sektörü Talebi Düşüyor

Nükleer Santral Devreye 2025 Yılında Giriyor

**TANSEL TEMUR**

- Key Assumptions
- Demand
- Statistical Differences
- Transformation
- Stock Changes
- Resources
- Non Energy Sector

Branch: All Branches Variable: None Scenario: Current Accounts

No data available here: click on another tree branch.

### Manage Scenarios

**+ Add** - Delete Duplicate Rename Print Key Params Template Tree Inheritance (M)

**Current Accounts**

- B1: IMF and OECD Baseline
  - OFF: Official and IMF and OECD
    - MIT: Mitigation (M)
    - BUI: Building Insulation
    - WIN: Wind Expansion
    - HYB: Hybrid Cars
    - TDL: Reduce TD Losses
    - IMP: Improve Coal Generatio
    - AFO: Aforestation
    - RED: Reducing Methane fron
    - EFFAG: More Efficient Agric f

Abbreviation: CA

**Notes**

The Current Accounts scenario contains the historical data in the data set.

All scenarios run from the FirstScenarioYear to the EndYear.

Results will be shown for checked scenarios  
Uncheck to reduce calculation time

All None Close Help

Manage Scenarios Branch: Key Assumptions\...

Branch: All Branches Variable: None Scenario: Current Accounts

**Manage Scenarios**

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Abbreviation: CA

Notes

The Current Accounts scenario contains the historical data in the data set.

Add Scenario Under "Current A..."

Name: HizmetSanayiNükleer

OK Cancel

Results will be shown for checked scenarios  
Uncheck to reduce calculation time

All None Close Help

- Key Assumptions
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### Manage Scenarios

**+** Add **-** Delete **+** Duplicate **R** Rename **P** Print **K** Key Params **S** Template  Tree Inheritance (M)

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    - AFO: Aforestation
    - RED: Reducing Methane from
    - EFFAG: More Efficient Agric f
  - HIZ: HizmetSanayiNükleer

Abbreviation: HIZ

**Inheritance** **Notes**

Results will be shown for checked scenarios  
Uncheck to reduce calculation time

All None  Close ? Help



Manage Scenarios Branch: Key Assumptions\...

Branch: All Branches

Variable: None

Scenario: HIZ: HizmetSanayiNükleer

- Key Assumptions
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Current Accounts

- ... B1: IMF and OECD Baseline
  - ... OFF: Official and IMF and OECD Baseline
    - ... MIT: Mitigation (M)
    - ... BUI: Building Insulation
    - ... WIN: Wind Expansion
    - ... HYB: Hybrid Cars
    - ... TDL: Reduce TD Losses
    - ... IMP: Improve Coal Generation Efficiency
    - ... AFO: Aforestation
    - ... RED: Reducing Methane from Landfills
    - ... EFFAG: More Efficient Agric fromLand Consolidation

HIZ: HizmetSanayiNükleer

All Scenarios

Checked Scenarios



No data available here: click on another tree branch.



- Key Assumptions
- Demand**
- Residential and Services
- Agricultural Energy Use
- Industrial Energy Use
- Transport
- Non Energy Use
- Bunker Fuels
- Statistical Differences
- Transformation
- Stock Changes
- Resources
- Non Energy Sector

Branch: All Branches Variable: Activity Level Scenario: HIZ: HizmetSanayiNükleer

Activity Level

Activity Level: A measure of the social or economic activity for which energy is consumed.

| Branch                       | 2011 Value    | Expression  | Scale          |
|------------------------------|---------------|---|----------------|
| Residential and Services     | 73,60         | Key\Population\Medium[Million people]                               | Million        |
| Agricultural Energy Use      | 36,97         | Key\GDP\GDP MER[Billion us\$] * (Key\ValueAdded\Agriculture[%]/100) | Billion        |
| <b>Industrial Energy Use</b> | <b>134,95</b> | <b>Growth(0)</b>  | <b>Billion</b> |
| Transport                    | 422,74        | Key\GDP\GDP MER[Billion us\$]                                       | Billion        |
| Non Energy Use               | 422,74        | Key\GDP\GDP MER[Billion us\$]                                       | Billion        |
| Bunker Fuels                 |               |   |                |

Büyüme sıfır olarak ayarlanarak sanayi talebinin sabit kalması sağlandı

Chart Table **Builder** Notes Elaboration Help

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

Growth(0)

## Expression Builder

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

The **Expression Builder** lets you edit a single expression in a larger space than the single rows shown in the [Analysis View](#) da

Analysis General Tree Chart Advanced Help

Save Backup Email Find Basic Params Fuels Effects Units References Help What's this?

Manage Scenarios Branch: Demand\Residential and Services\...

Branch: All Branches Variable: HistTotalEnergy Scenario: HIZ: HizmetSanayiNükleer

Activity Level Final Energy Intensity **HistTotalEnergy**

HistTotalEnergy: HistTotalEnergy (User Variable)

| Branch     | 2011 Value | Expression    | Scale    |
|------------|------------|---------------|----------|
| ▶ Baseline | 15.357,90  | Growth(-2,5%) | Thousand |

Hizmet sektöründe tüketilen enerji miktarı her yıl %2.5 düşecek şekilde ayarlanmıştır.

Chart Table **Expression Builder** Notes Elaboration Help

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

Growth(-2,5%)

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## Expression Builder

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

The **Expression Builder** lets you edit a single expression in a larger space than the single rows shown in the [Analysis View](#); it is particularly useful for editing complex equations spread over multiple rows. You can add your own line breaks and indent the Expression Builder to make complex equations easier to read. This formatting will be preserved when you save the expression.



- Key Assumptions
- Demand
- Statistical Differences
- Transformation
- Losses and Own Use
- Coke Production
- Electric Generation
  - Output Fuels
  - Processes
    - Fuel Oil
    - Diesel Oil
    - Naphtha
    - LPG
    - Natural Gas
    - Hydro
    - Coal
    - Lignite
    - Biogas and Was
    - Wind
    - Solar
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    - Nuclear**
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Branch: All Branches Variable: Exogenous Capacity Scenario: HIZ: HizmetSanayiNükleer

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

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; 1...      |
| 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;       |
| 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; 20... |
| 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...  |
| 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; 2...     |
| 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; 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; 199...    |
| 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; 5...      |
| 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...  |
| 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;     |
| 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)                                  |
| <b>Nuclear</b>    | 0,00       | <b>Step(1980; 0; 2025; 1200; 2030; 2400; 2035; 3600; 2040; 4800)</b>  |

Nükleer kapasite 2025 yılından başlayarak her 5 yılda bir 1200MW devreye girecek şekil

Total: 45962 51.374,10 in 2050

Step(1980; 0; 2025; 1200; 2030; 2400; 2035; 3600; 2040; 4800)

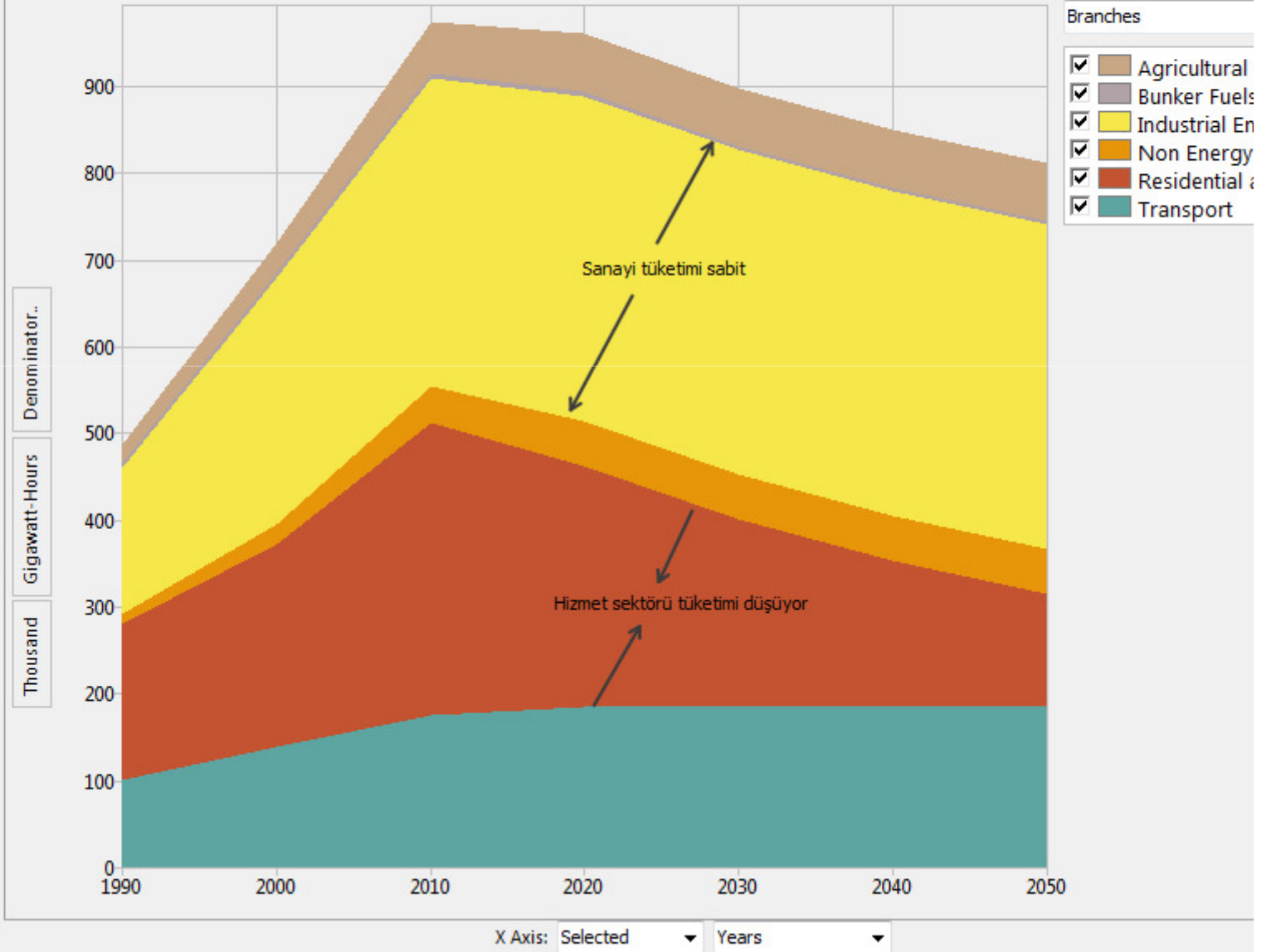
Turkey 3.0

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Chart Table Split

Show: Demand: Energy Demand Final Units Levels: 1 Help Scenario: HizmetSanayiNükleer Fuel: All Fuels

Demand: Energy Demand Final Units





Turkey 3.0

- Key Assumptions
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Chart Table Split

Show: Transformation: Outputs Levels: 1 Help Scenario: HizmetSanayiNükleer Fuel: All Fuels More...

Transformation: Outputs

