Pathways to Sustainable Energy
“Energy for Sustainable Development” Concept
12-14 June 2018, Bishkek
energy for sustainable development
energy as an enabler to the 2030 agenda

see progress tracking report for the unece region:
https://www.unece.org/index.php?id=47830
Defining Sustainable Energy
Pillars and Metrics

- Energy Intensity (economy; by sector)
- Energy Mix
- Net Energy imports
- Investment requirements
- Energy use per capita
- Efficiency of energy conversion
- Resilience
- Robustness
- Reliability

• Energy Intensity (economy; by sector)
• Energy Mix
• Net Energy imports
• Investment requirements
• Energy use per capita
• Efficiency of energy conversion
• Resilience
• Robustness
• Reliability

- Greenhouse gas (GHG) emissions
- Air pollutant emissions Water use by energy sector
- Carbon intensity of GDP & of energy
- Land use
- Waste produced

• Energy affordability
• Electricity access
• Energy Services
• Job creation
• Energy reliability
Sustainable Energy Objectives

I. "Energy Security": Securing the energy needed for economic development;

II. "Energy for Quality of Life": Provide affordable energy that is available for all at all times;

III. "Energy and Environment": Minimize the impact of energy system on climate, ecosystems & health.

➢ Policy Scenario Development: Pathways that can attain the set objectives by 2050.
Energy for Sustainable Development

Storylines providing four scenario spaces

- **High Degree of Innovation:** Technology, Business Models
  - Scenario A
  - SSP2: Middle of the Road
  - Scenario B
  - High Degree of International / Regional Cooperation
  - Scenario C
  - Low Degree of International / Regional Cooperation
  - Scenario D
  - Low Degree of Innovation: Technology, Business Models
Thank you!

Lisa Tinschert
Lisa.Tinschert@un.org
Sustainable Energy Division
UNECE
Date 12 I 06 I 2018, Bishkek