



Pathways to Sustainable Energy

“Energy for Sustainable Development” Concept

12-14 June 2018, Bishkek



Energy for Sustainable Development

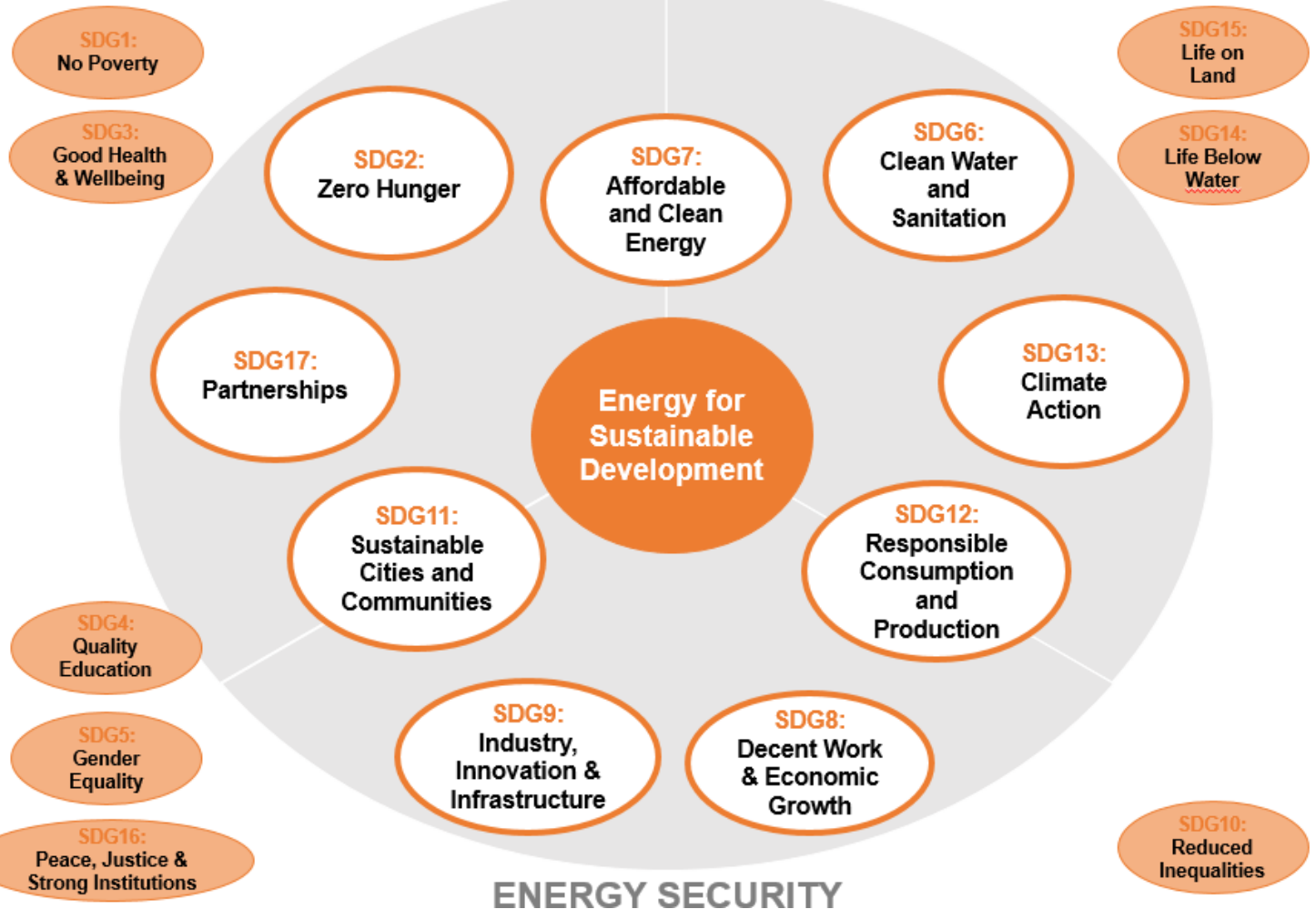
Energy as an enabler to the 2030 Agenda

ENERGY



ENERGY FOR QUALITY OF LIFE

ENERGY AND ENVIRONMENT



UNECE

Global Tracking Framework:
UNECE Progress in Sustainable Energy



See progress tracking report for the UNECE region:

<https://www.unece.org/index.php?id=47830>

Defining Sustainable Energy

Pillars and Metrics

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Energy Security

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

Sustainable Energy

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

- **Energy affordability**
- **Electricity access**
- **Energy Services**
- **Job creation**
- **Energy reliability**

Environmental Protection

Energy for Quality of Life

Sustainable Energy Scenario Development Modelling Approach: Policy Scenario Development



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Sustainable Energy Objectives

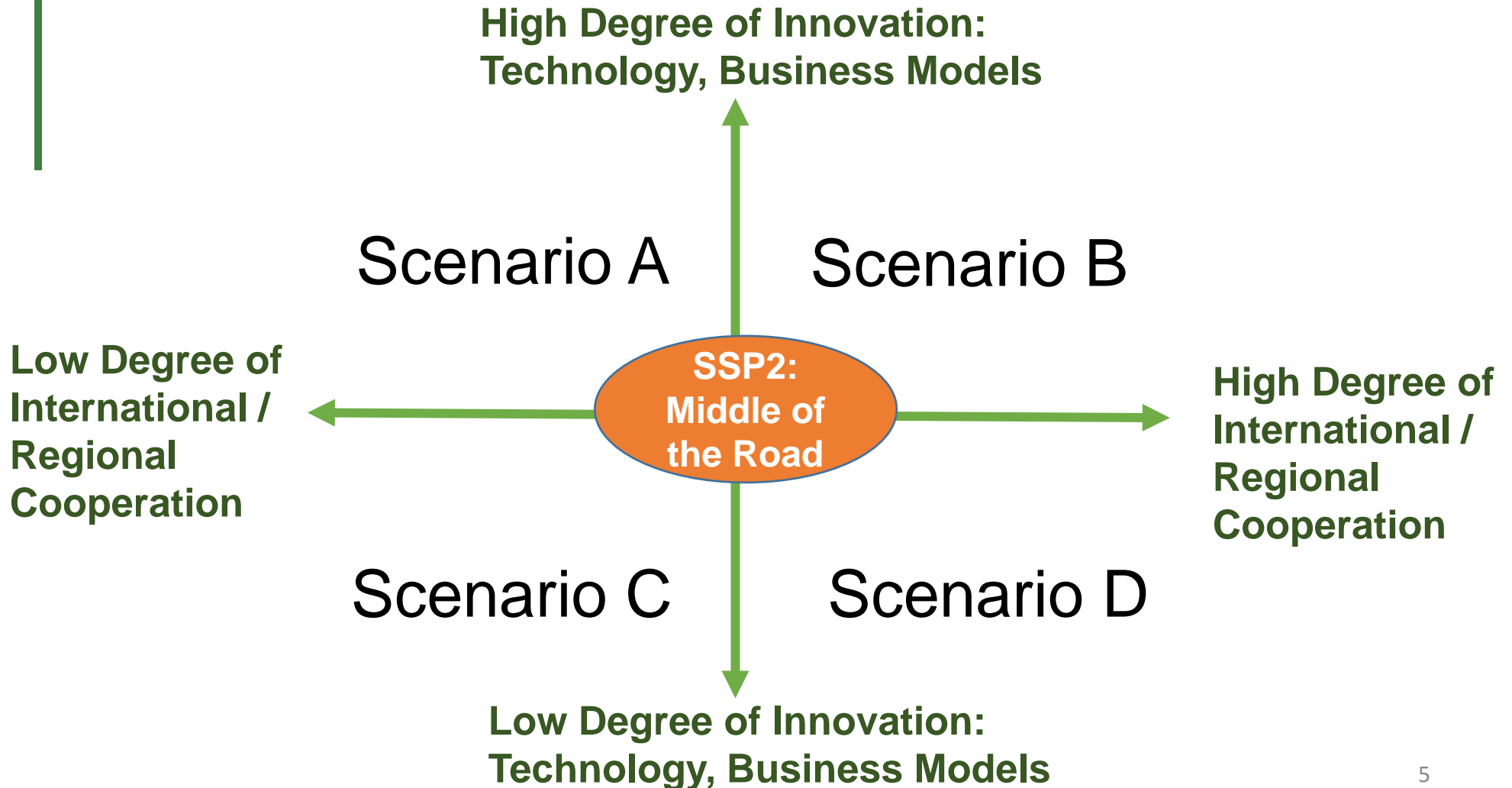
- I. **“Energy Security”**: Securing the energy needed for economic development;
 - II. **“Energy for Quality of Life”**: Provide affordable energy that is available for all at all times;
 - III. **“Energy and Environment”**: Minimize the impact of energy system on climate, ecosystems & health.
- **Policy Scenario Development: Pathways that can attain the set objectives by 2050.**

Energy for Sustainable Development

Storylines providing four scenario spaces



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Thank you!

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