

# SDG 7 Roadmap for Kyrgyzstan

## Key Findings and recommendations



### SDG7 Roadmap for Kyrgyzstan

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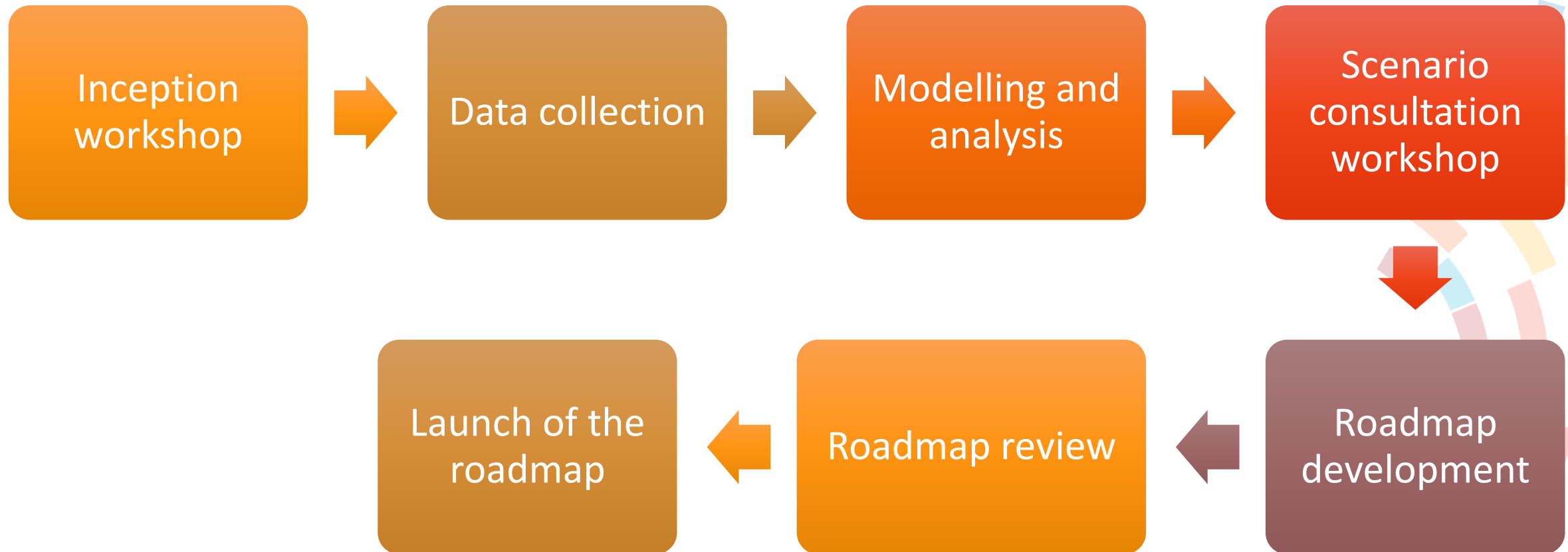


# SDG 7 National Roadmaps...a need raised by ESCAP member States

*Ministerial declaration from the second Asian Pacific Energy Forum (APEF) held in April 2018*

“support members and associate members in the implementation of the present Declaration by... assisting countries, upon request, in **developing national road maps** for the implementation of Sustainable Development Goal 7 and in mainstreaming the global targets related to energy into national policies, plans and strategies.”

# SDG7 Roadmap for Kyrgystan – the journey



# Current Situation and Scenarios for Kyrgyzstan

## Base Energy Situation in 2018



**Access to electricity:** 100 per cent



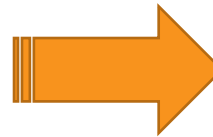
**Access to clean cooking:** 68.1 per cent



**Renewable energy:** 18.5 per cent



**Energy efficiency:** 7.48 MJ/US\$<sub>2017</sub>



### *Accessing the gap*

Current Policy Scenario

### *Achieving SDG and NDC targets*

SDG Scenario

### *Raising ambitions*

- High Energy Efficiency and Sustainable Transport Scenario
- Coal Phase-Out Scenario

# Key findings and recommendations (1)

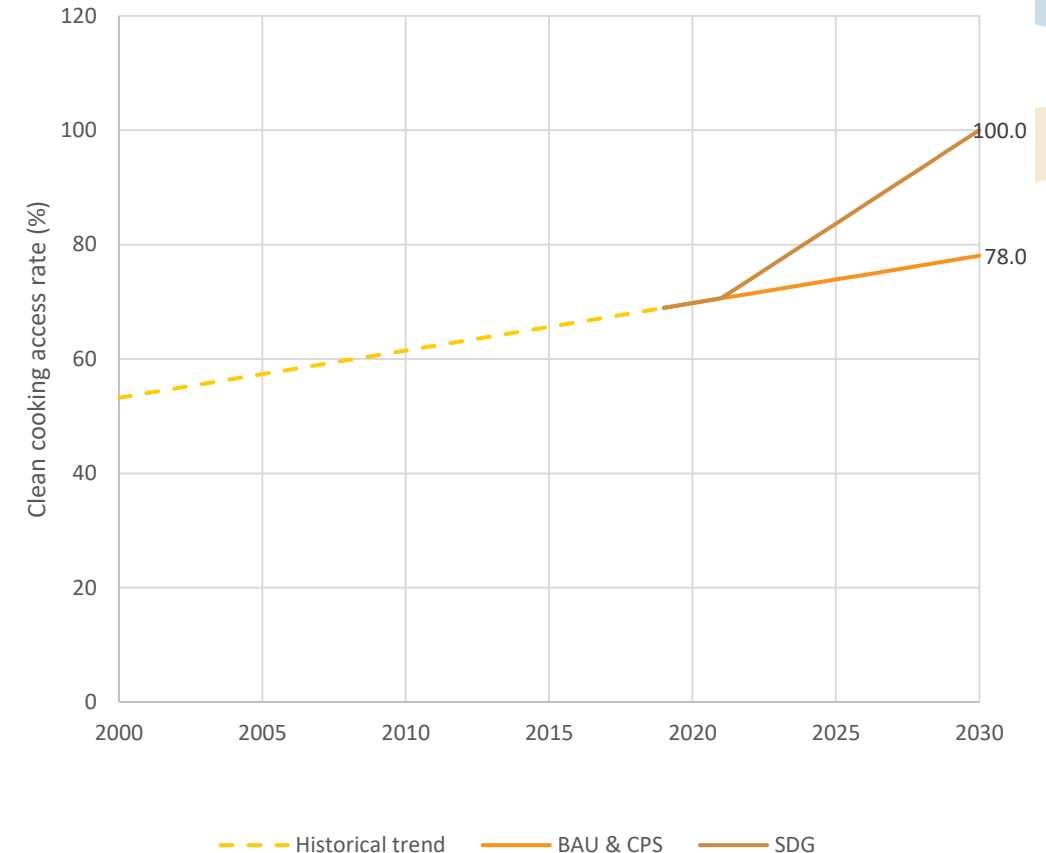
## Energy Access

### 1. Access to electricity 2018: Access to electricity: 100 per cent

- Kyrgyzstan has achieved universal access to electricity

### 2. Access to clean cooking fuel and technologies 2018: Access to clean cooking: 68.1 per cent

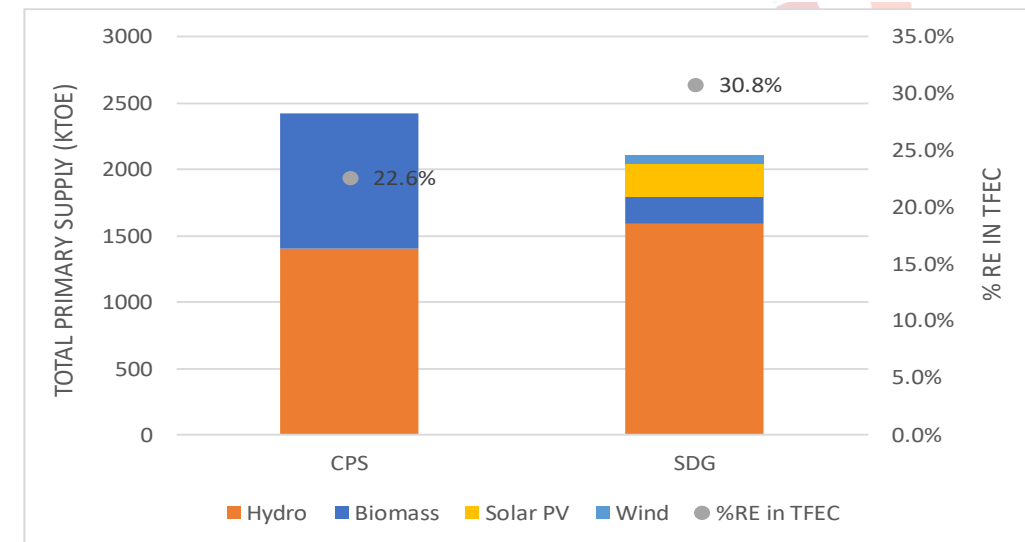
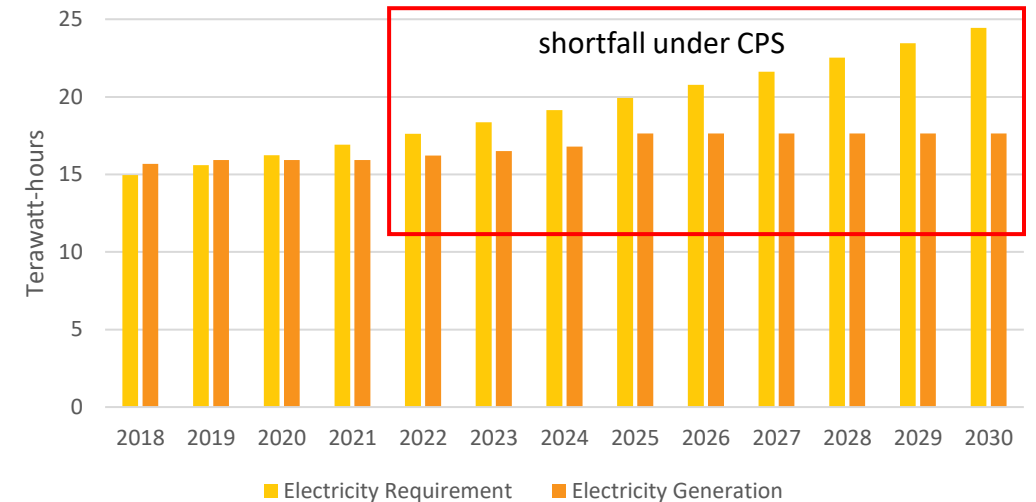
- no governmental policies or initiatives in progressing the clean cooking access rate
- Promotion of induction-type electric stove can be very effective to achieve the universal access



# Key findings and recommendations (2)

## Renewable energy 2018: Renewable Energy: 18.5 per cent

- The current energy system relies heavily on hydropower, traditional biomass, and oil products
- The current expansion plan would increase renewable energy share to 22.6% of TFEC by 2030 in the CPS. However, Kyrgyzstan may experience an electricity supply shortfall.
- With further efforts, the roadmap finds that RE share would rise to
  - 30.8% in the SDG scenario
  - 39.4% in the High Energy Efficiency and Sustainable Transport scenario
  - 41.5% in the Coal Phase-out Scenario
- In the SDG scenario, the diversification of renewable energy has a pivotal role to eliminate the shortfall and improve energy security.

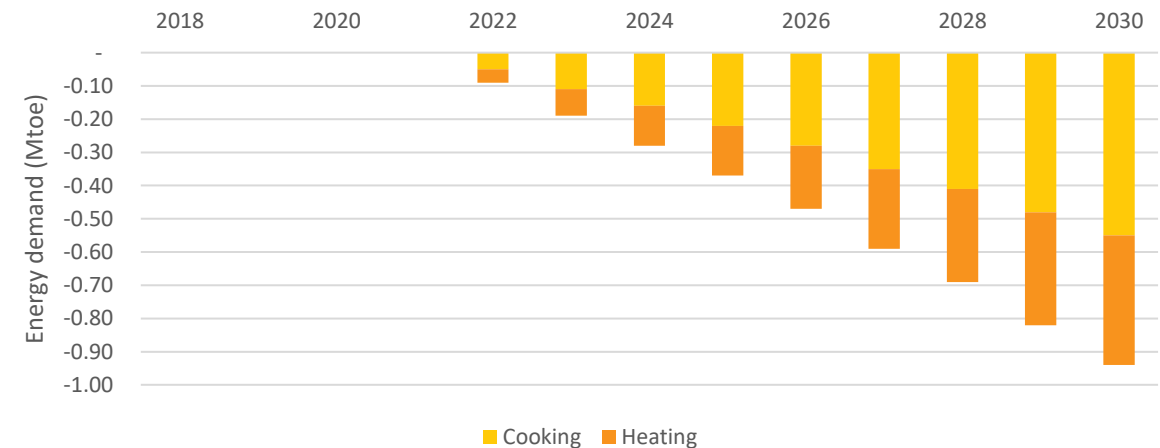


# Key findings and recommendations (3)

## **Energy efficiency (1)** 2018: Energy Intensity: 7.48 MJ/US\$<sub>2017</sub>

- The roadmap recommends eliminating polluting cooking and heating technology to be able to achieve the SDG 7 target
- If the recommendations are implemented, the energy intensity will drop to
  - 5.06 MJ/US\$<sub>2017</sub> in the SDG scenario
- Alternative residential heating technologies should be pursued with High-Efficiency Low Emissions (HELE) stoves being an appropriate solution in the short-to-medium term.

## Energy savings by sector in SDG Scenario relative to CPS scenario

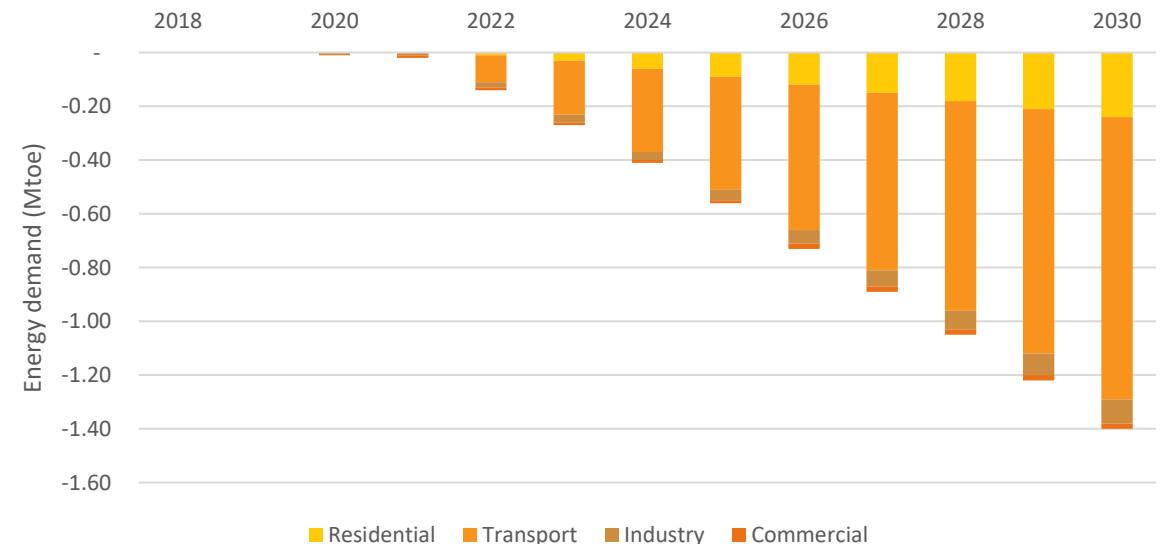


# Key findings and recommendations (3)

## Energy efficiency (2)

- The roadmap recommends economy-wide energy efficiency measures to be able to achieve a more ambitious target, including MEPS.
- If the recommendations are implemented, the energy intensity will drop to
  - 3.97 MJ/US\$<sub>2017</sub> in the High Energy Efficiency and Sustainable Transport scenario
- Roadmap analysis indicated there are ample energy efficiency opportunities in the transport sector.

**Energy savings by sector in the Enhanced Energy Efficiency Scenario relative to SDG scenario**





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**Final Consumption, by Sector in Kyrgyzstan, 2018-2030, SDG Scenario**

Units: Thousand Barrel of Oil Equivalent ▼

Toggle View : CHART ⬇

Year	Residential (Blue)	Industrial (Brown)	Commercial (Grey)	Transport (Cyan)	Other (Purple)
2018	12000	18000	3000	2000	1000
2019	12500	18000	3000	2000	1000
2020	13000	18000	3000	2000	1000
2021	13500	18000	3000	2000	1000
2022	14000	18000	3000	2000	1000
2023	14500	18000	3000	2000	1000
2024	15000	18000	3000	2000	1000
2025	15500	18000	3000	2000	1000
2026	16000	18000	3000	2000	1000
2027	16500	18000	3000	2000	1000
2028	17000	18000	3000	2000	1000
2029	17500	18000	3000	2000	1000
2030	18000	18000	3000	2000	1000