SECCA
Sustainable Energy Connectivity in Central Asia

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THE ONLINE INITIAL TRAINING WORKSHOP ON ENERGY MODELLING

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The possible next steps

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Third Assignment – Country note

- **Context/Background**: Provide an overview of the energy sector and other key elements of national relevance (key indicators and statistics, the relevant stakeholders, the policy context, etc).

- **Problem Statement**: Clearly define the energy/climate policy issue(s) that you have identified for your country and that you would like to investigate.
- **Methodology**: Describe the modelling approach/rationality that can be used (that you suggest to use) to analyse the issue. Mention critical data requirements (sources and gap) and the key "technical" challenges.

- **Conclusion**: Summarize the key elements of your research. Based on the above, suggest areas / tasks for future analyses or actions (provide priorities/proposals with a rationale).

Tips:

- Make use of tables and visuals
- Include references (in appendix, if needed)
- Use the training material and the assignment

Format (your choice):

- Report (.doc)
- Business presentation (.ppt)

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Weaknesses / Hot topics

Country-specific / Multi-regional CA

Need for Integrated Analysis (against stand-alone/sectoral analyses)	Energy security	Energy efficiency measures	Advanced Technology
"Watergy" (integration water-energy)	H2 market (I/E) Promotion of H2 domestic use	Integration with power system analyses (renewables)	Regional integration – cooperation Trades / Trading schemes
International funds (eg Belt and Road Initiative)	Risks (CBAM)	Tariffs (energy subsidies)	Variants/Uncertainties (prices, technologies, targets)

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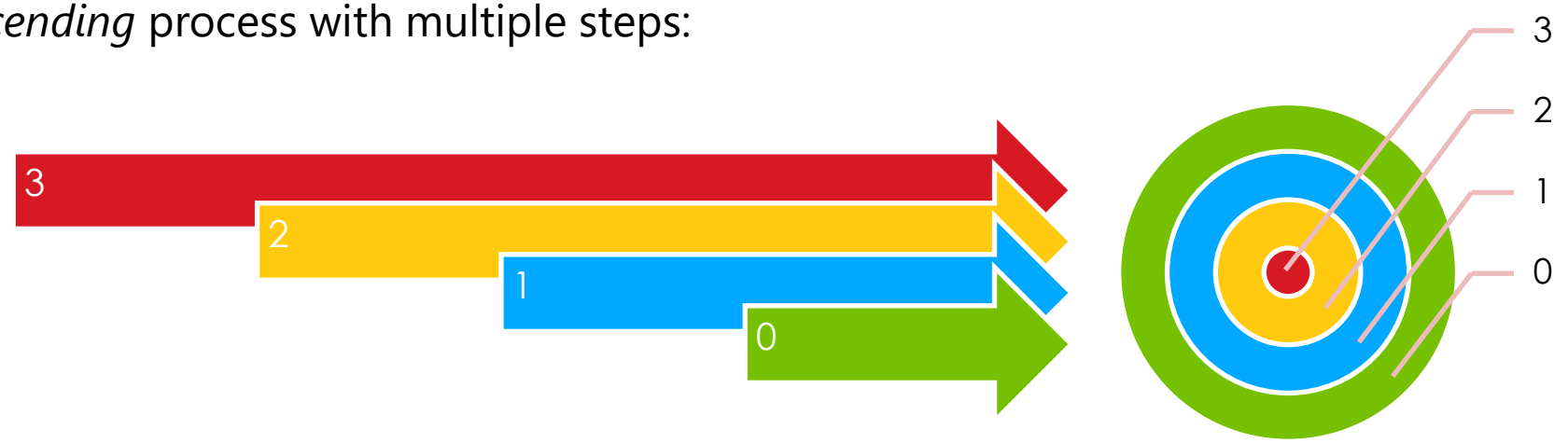
Modelling in energy&climate policy development

A simplified *ascending* process with multiple steps:



0: organise a proper data collection and analysis (at sectoral level)

0 → 1: move towards a system-oriented approach and a more explicit representation of the key factors involved

1 → 2: design scenarios to explore different combinations of factors (eg goals, policies, uncertainties)

2 → 3: integration of non-energy sectors/components to consider multiple dimensions of the sustainability of the strategies.

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Training sessions for country “modelling units”

What are your critical strategic questions in the energy&climate domain?
The SECCA project can help you formulating and investigating them.

Think “out of the box”

Evidence-based decision making

Environment for Dialogue / Cooperation / Transparency

Inter- and Trans-disciplinarity

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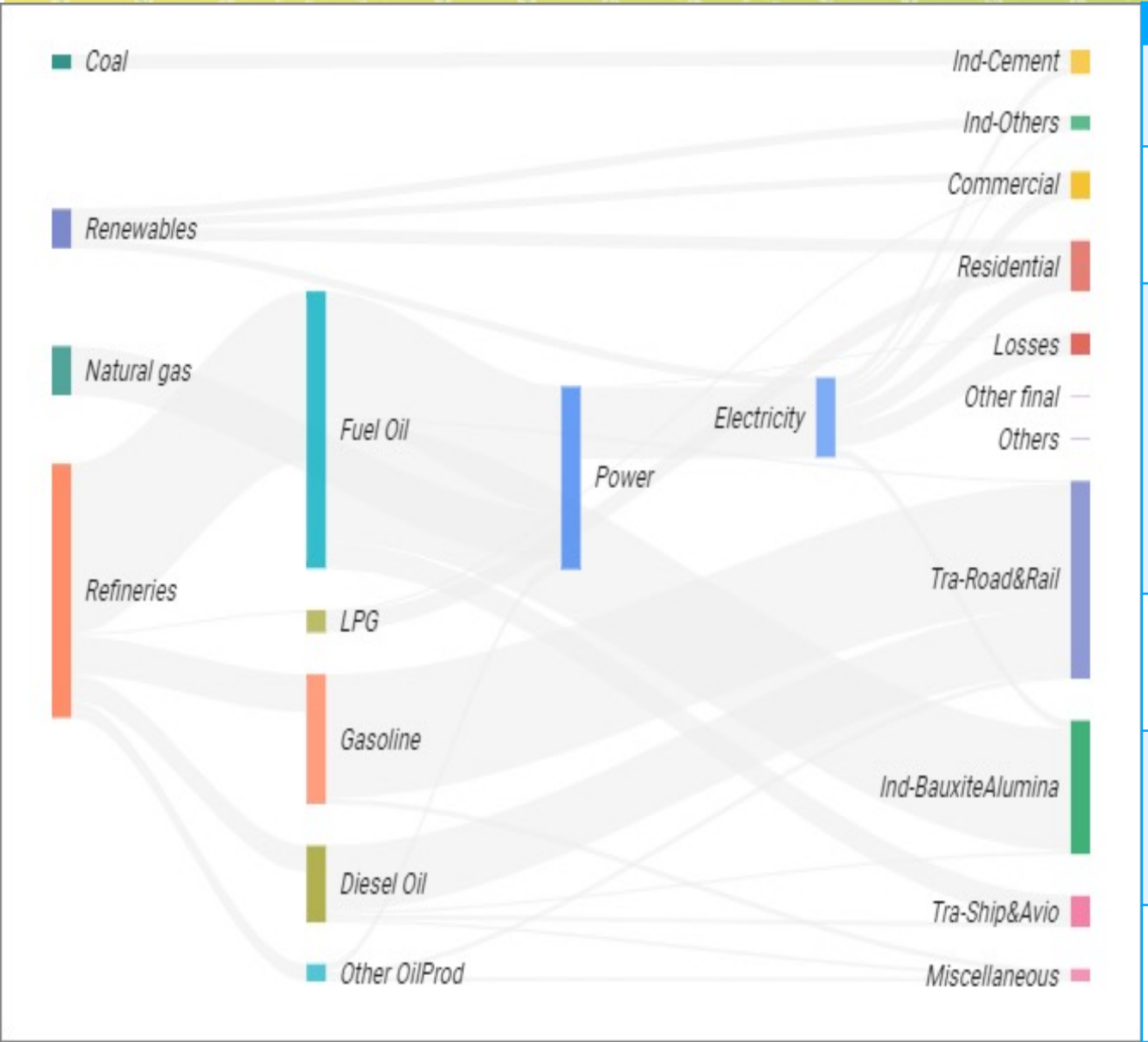
What the problem or issue is?



Key Issues	Possible Actions
Dominance of oil products in the system	Diversification of the mix
Import dependency (primary and secondary commodities)	Reduction of (financial and supply) exposure
Low share of renewable energy in the total primary energy supply (contribution of renewable energy in electricity generation accounts for around 10%)	Exploitation of domestic renewable resources
Transport and Industry are the major sectors of energy consumption	Sectoral transformations and advanced technologies
Significant electricity T&D losses (even greater than the electricity household consumption)	Refurbishment of the network and decentralised generation
Use of solid biomass for cooking (charcoal stoves)	Ensuring affordable and sustainable energy for all and improving air quality