



Regio1st Planning Framework outline

Stage 4 Exploring the current regional energy
system

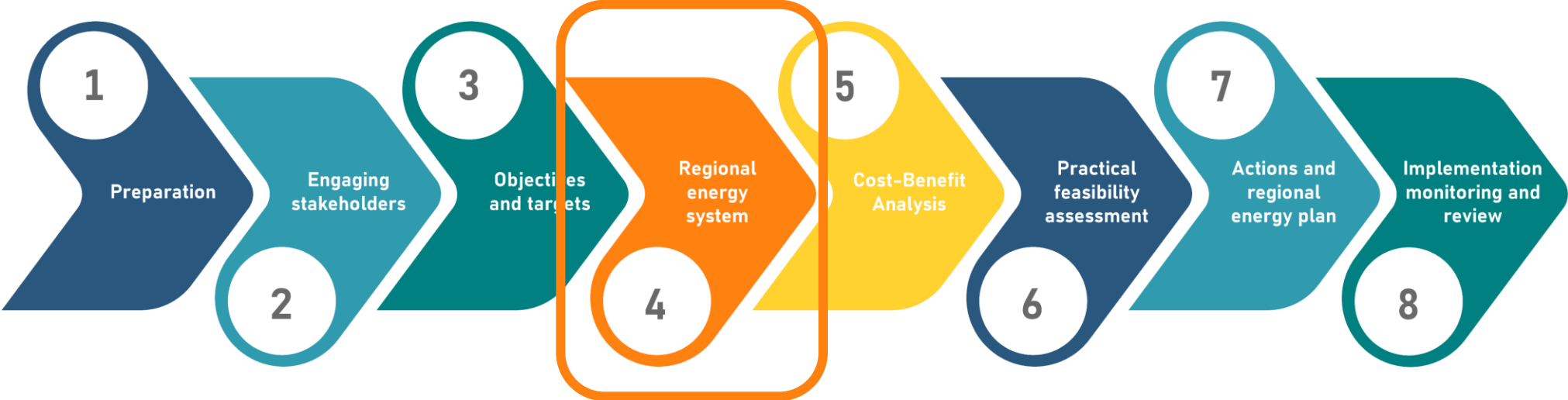
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- ❑ Planning framework
- ❑ Stage 4 Exploring the current regional energy system
 - Step 4.1 Collate data to understand the current energy system
 - Step 4.2 Analyse energy consumption patterns by sector
 - Step 4.3 Evaluate existing energy infrastructure
 - Step 4.4 Review the current system with stakeholders

The Regio1st Planning Framework



Stage	Step	Tool
Stage 4 Exploring the current regional energy system	4.1 Collate Data To Understand The Current Energy System	Energy Inventory Data Collection Template
	4.2 Analyse Energy Consumption Patterns By Sector	
	4.3 Evaluate Existing Energy Infrastructure	
	4.4 Review The Current System With Stakeholders	

Stage 4 - Objective

Explore the current
regional energy
system

- Gather data current energy consumption and production
- Analyze patterns
- Identify relevant infrastructures, and other key aspects of the regional energy system

Step 4.1 Collate data to understand the current energy system



Planners gather data on:

- regional energy production
- renewable energy production
- energy consumption per sector and energy source.

Data sources may include regional and national statistical institutes/offices, utilities, industry reports, technical reports and academic publications.

Accurate and comprehensive data
essential for

- developing a baseline energy inventory,
- understanding the current regional energy system and
- set realistic targets in the regional energy plan.



**Energy Inventory Data Collection
Template**

Step 4.2 Analyse energy consumption patterns by sector



Planners use data collected in step 4.1 to **analyse the energy consumption** by sector, to derive consumption patterns in different sectors, especially the residential, commercial, and transport sector.

The analysis should consider factors such as energy demand, energy intensity, and the types of energy sources used in each sector.

Understanding patterns

helps planners identify opportunities to improve energy efficiency, switch fuels, and implement other demand-side interventions.

Step 4.3 Evaluate existing energy infrastructure



Planners should evaluate the existing energy infrastructures in the region, considering the

- Age
- Condition
- Capacity, and
- Efficiency

of energy production, distribution, and storage facilities,
as well as the availability and accessibility of renewable energy resources.

Infrastructures evaluation

This assessment will help planners identify infrastructure-related constraints and opportunities to include in the regional energy plan

Step 4.4 Review the current system with stakeholders



Once a thorough understanding of the current regional energy system has been established, planners should discuss the findings with stakeholders, by

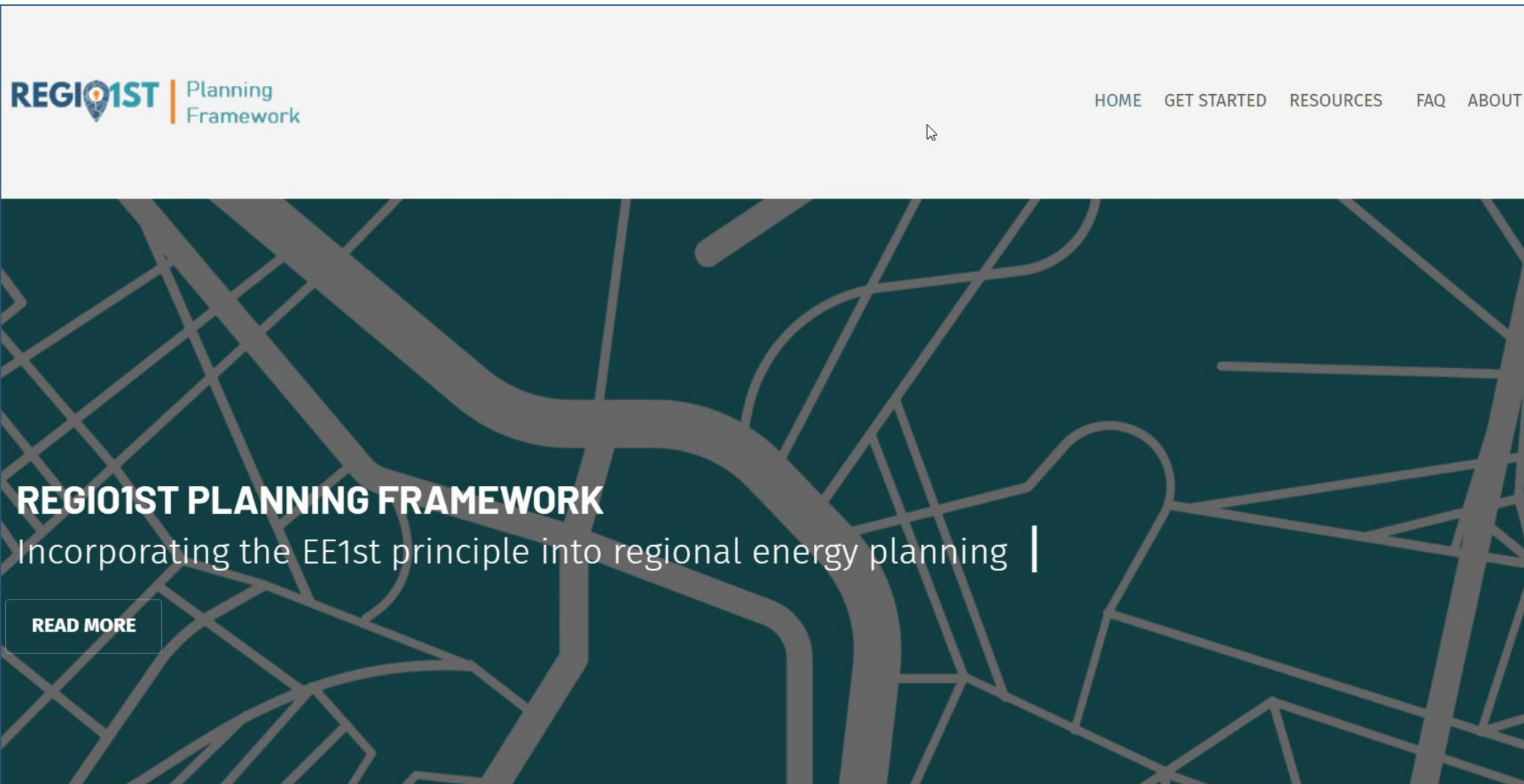
- organizing workshops,
- meetings, or
- other engagement activities

to present the data and analysis and gather feedback and insight from the stakeholders.

Review with stakeholders

This step is important for validating the information, ensuring that all relevant aspects have been considered, and building consensus on the key challenges and opportunities of the regional energy system.

Online planning framework



Thank you!

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