

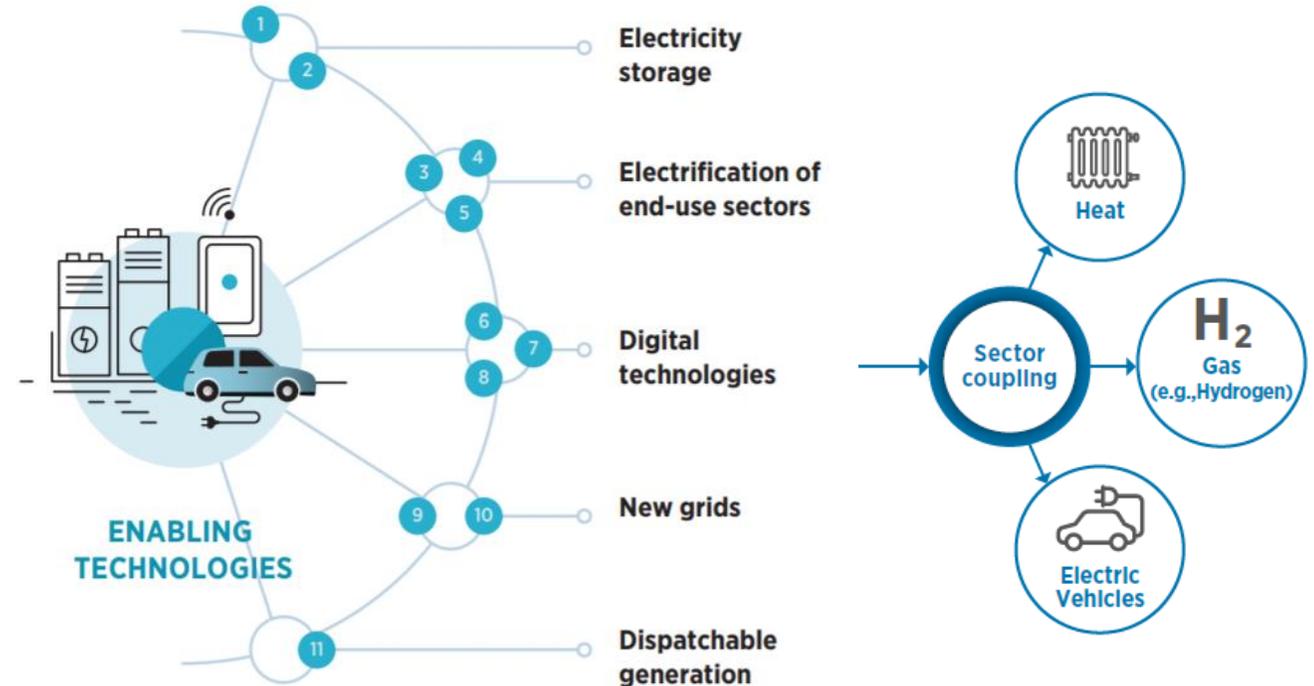
IRENA's Energy Transition Scenarios Network

Asami Miketa, Senior Programme Officer, Power Sector Investment Planning
IRENA Innovation Technology Center

LTES Forum, April 2019

Why long-term energy scenarios?

- » **Fundamental tool for policy making**
 - » National policy making
 - » Global policy debates / public opinion
- » **What is new?**
 - » Global decarbonization (Paris Agreement)
 - » Massive technology innovation within and around the energy sector
- » **Long-term visions for clean energy transition**
 - » Communicate risks of making poor, short-sighted decisions.
 - » Represent transformative changes of energy systems (e.g., VRE, disruptive innovations in end-use, digitalization, etc.)



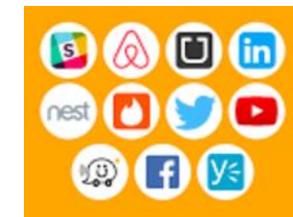
Artificial intelligence



Blockchain



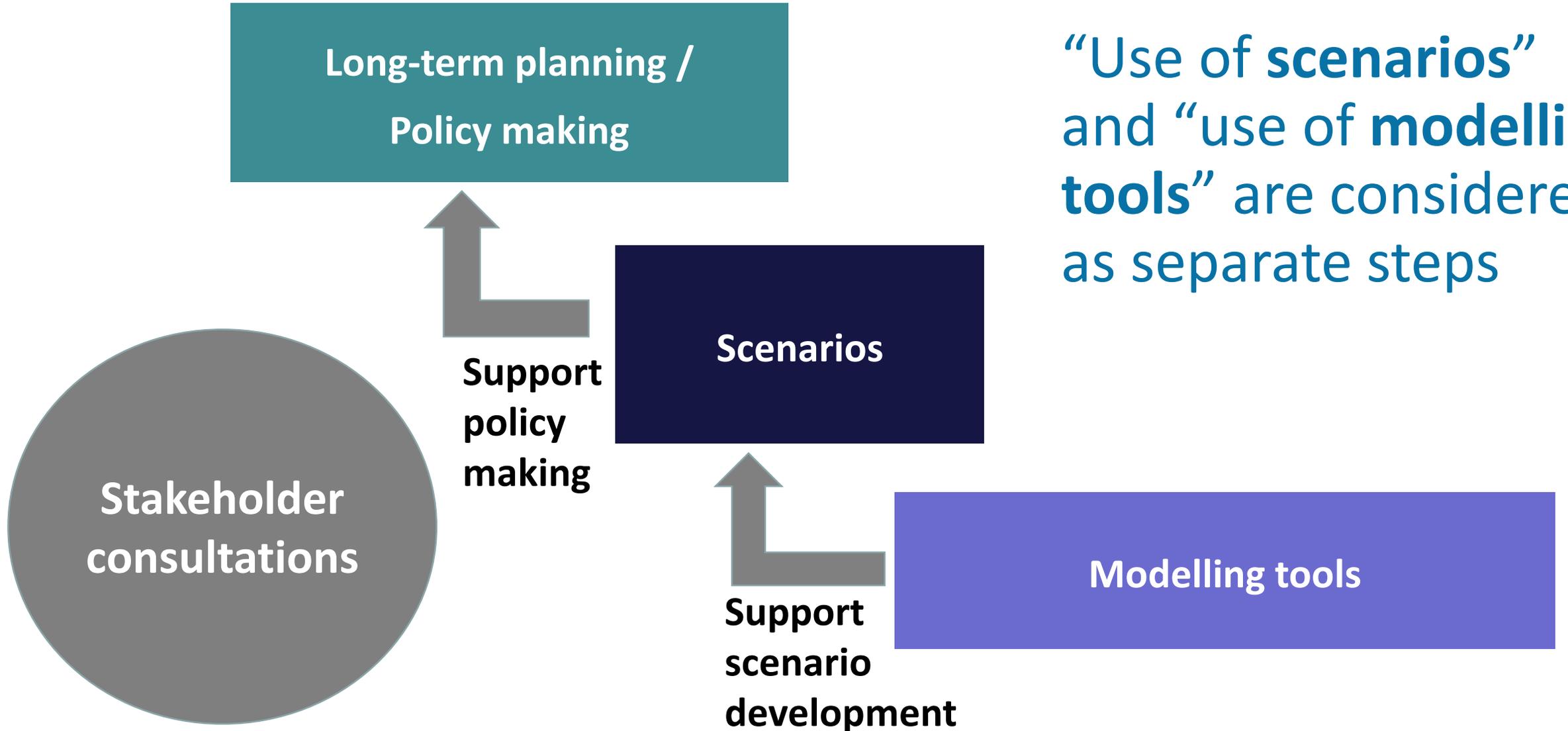
Platform business model



IoT



How scenarios are used and developed



A campaign under the CEM

In 2018, Germany and Denmark proposed to launch a campaign to **promote the wider adoption and improved use of long-term energy scenarios for clean energy transition** to the members of Clean Energy Ministerial (CEM)

- CEM: A partnership of 26 countries
- Annual high-level Ministerial meeting
- Time-bound **campaigns** to raise ambition or increase visibility of topics of potential impacts

11 Member countries

(Germany and Denmark lead)

7 Technical partners



Events

Regional Workshop in Brasilia (February 2019), **International Forum in Berlin (April 2019)**, CEM Ministerial Meeting in Vancouver (May 2019), 10 workshops
Over 400 expert attendees in total



Webinar series*

Bi-weekly webinar series since November 2018
500+ Registrants

Synthesis Report

Synthesizing over 100 topics discussed in the events
(2019-2020)

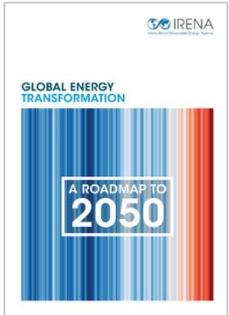


* <https://www.irena.org/renewables/Knowledge-Gateway/webinars>

Goal: Integrate renewables in the main stream of the energy planning process

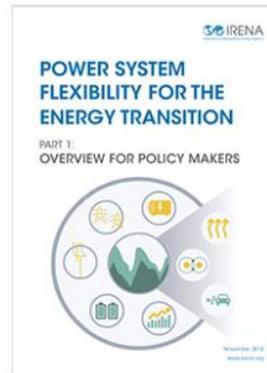
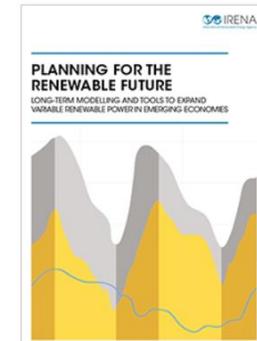
Use of scenarios for policy making

- REmap transition scenarios to raise the RE ambition



Development of scenarios for clean energy transition

- Addressing variable renewable in long-term planning
- REmap framework for end-use sector assessment
- Flexibility assessment



Building and enhancing capacity

- Energy planning capacity building programme
- Capacity building framework discussions

Leveraging from IRENA's global membership

160 members
23 states in accession



Central Asia



South and South East Asia



South America



Arab states



Africa

Energy Transition Scenarios Network

The world's energy systems are facing profound changes. Innovations in the way energy is generated, distributed and consumed, together with pressing climate objectives outlined in the Paris Agreement are moving us towards a more digitalized, decentralized and decarbonised energy model. In this context it is increasingly important for policy makers and investors to make strategic, forward-looking energy decisions that consider new trends and uncertainties across technology, market, and policy directions.

IRENA's **Energy Transition Scenarios Network (ETS-Net)** seeks to broaden the understanding and use of energy planning scenarios as a key tool to support informed government policy decision making, especially in addressing new challenges and opportunities posed by unprecedented energy system transformation. Through several [scheduled activities](#), the ETS-Net also offers members an opportunity to engage in IRENA's strategic and programmatic work in the field of energy scenario development and planning.

Quick Links

Overview

Power Sector Transformation ▾

Energy System Models and Data ▾

Energy Planning Support ▾

Energy Transition Scenarios Network ▾

➤ Overview

➤ Long-term Energy Scenarios (LTES) campaign

➤ ETS-Net Events

Non-CEM countries' questions include:

Use of scenarios for policy making

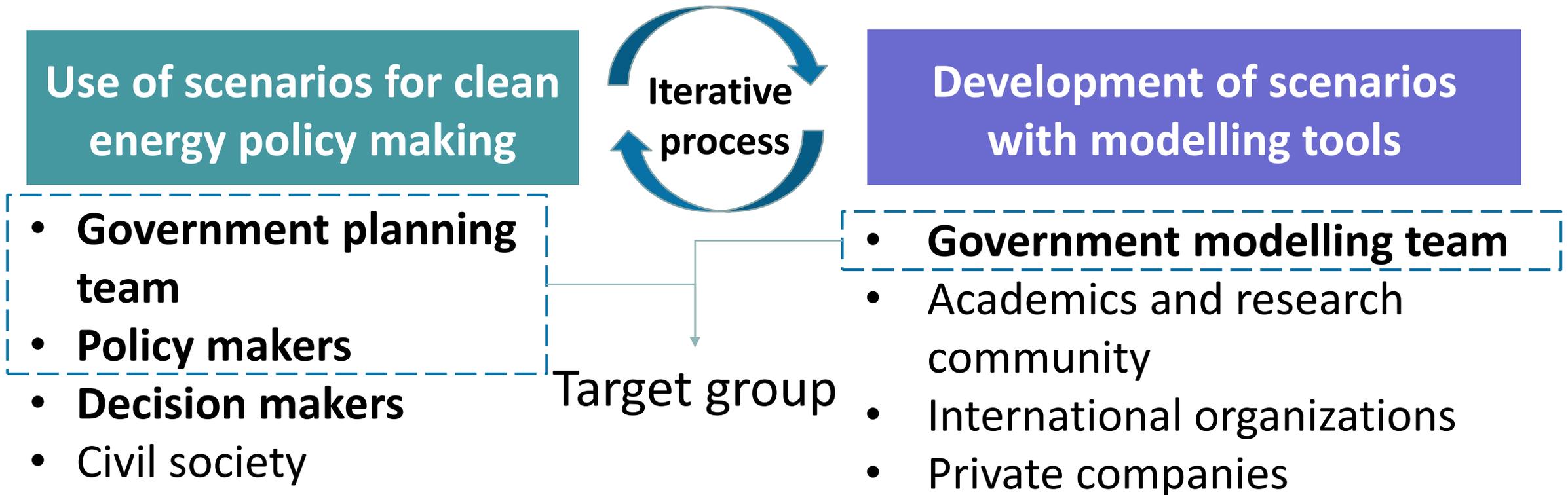
- Regional planning coordination
- Alignment of energy scenarios with NDC and development goals

Development of scenarios for clean energy transition

- Selection of tools
- Modelling approaches
- Variable renewable energy integration
- Flexibility

Building and enhancing capacity

- Approaches to capacity building on scenario based planning using modelling techniques



» Eligibility

- » Government and government institutions that are using scenarios
- » Technical institutions that are supporting national or regional governments in using and developing scenario
- » Other regional / thematic networks
- » Willingness to contribute to knowledge/experience sharing

» Activities

- » 2020 International Forum on LTES in Bonn
- » ETS-Net workshop at IRENA General Assembly for the government delegates
- » Informing CEM-LTES campaign

Feedbacks to be discussed during the panel discussion!

amiketa@irena.org / LTES@irena.org