2023 Inputs and Assumptions - stakeholder topics

23 February 2022

Forecasting Reference Group Meeting

Overview

Context and instructions email

Survey: list 10 topics

Pre FRG survey

In FRG:

- Discuss topic and materiality
- Poll stakeholders

FRG Feb 2022 poll

Multiple choice
Votes: 0
In which box does "Energy efficiency" fit to describe its long/short-term importance to AEMO's electricity forecasts?

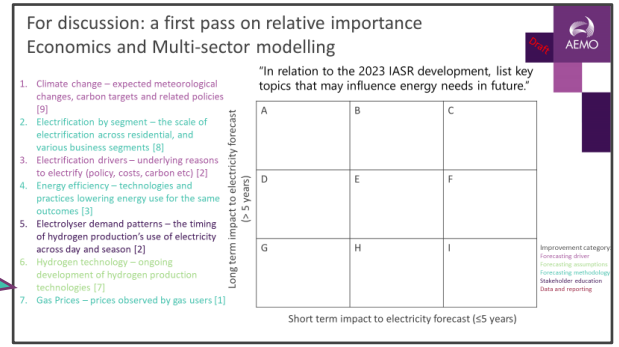
Stakeholders nominate long/short-term importance of each topic

Multiple choice
Votes: 0
Live
Within electricity forecast, should "Energy efficiency" predominantly be considered an opportunity to improve Forecast: Drivers, Assumptions, Methodology, Data and reporting or Stakeholder education?

Stakeholders nominate category of each topic

10 Feb → 23 Feb → 30 Mar → Ongoing development of plan for IASR and engagement

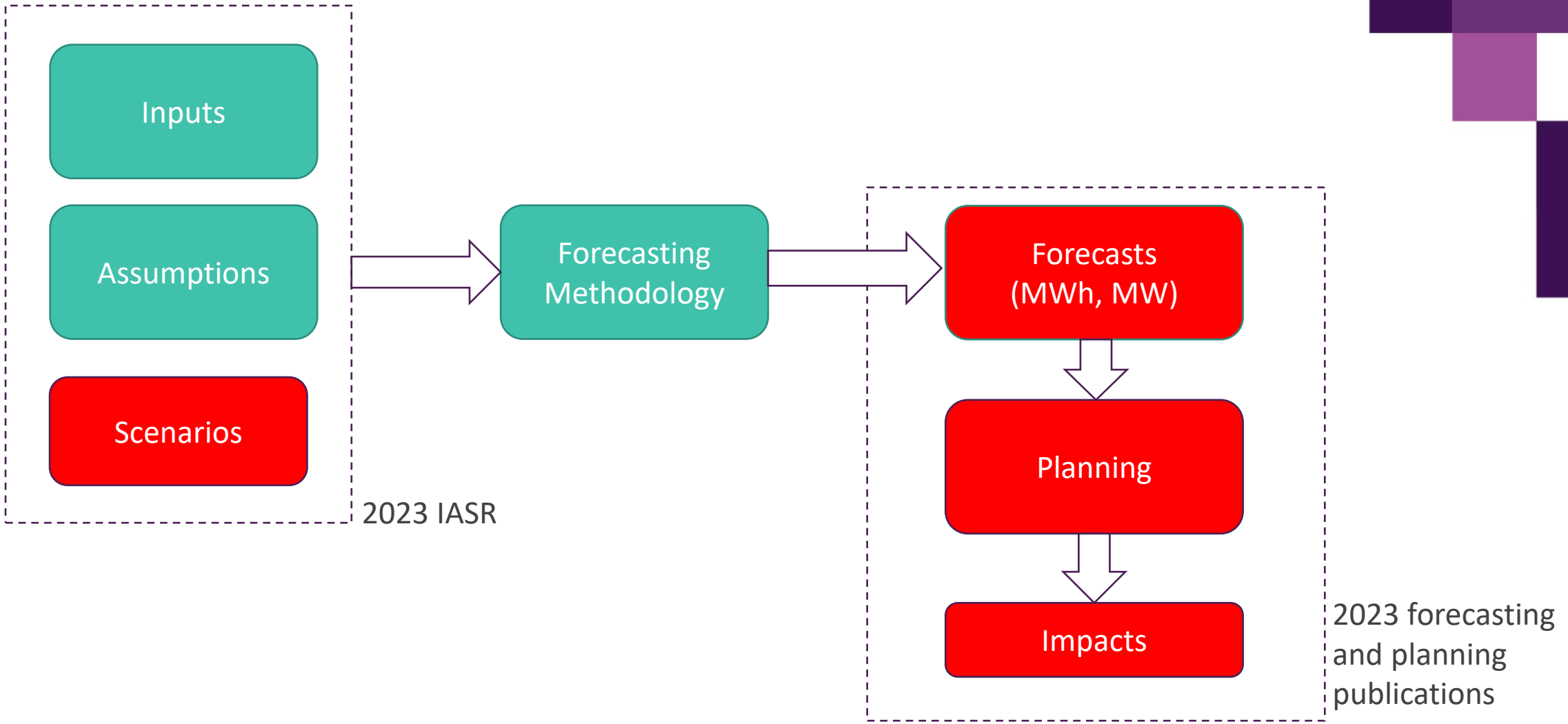
AEMO summarizes and categorizes topics



Categorize topics:

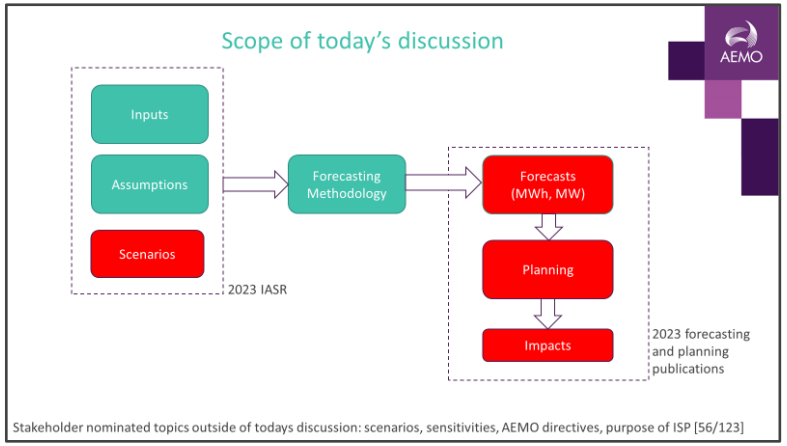
- Driver
- Assumptions
- Methodology
- Education
- Data and reporting

Scope of today's discussion



Stakeholder nominated topics outside of todays discussion: scenarios, sensitivities, AEMO directives, purpose of ISP [56/123]

Approach for discussion



Relevant to electricity forecasts?

Discuss importance to short and long term forecasts

Economy and Multi-sector model

This FRG meeting

DER and EV

March FRG meeting

For discussion: a first pass on relative importance Economics and Multi-sector modelling

Draft

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"In relation to the 2023 IASR development, list key topics that may influence energy needs in future."

1. Climate change – expected meteorological changes, carbon targets and related policies [9]
2. Electrification by segment – the scale of electrification across residential, and various business segments [8]
3. Electrification drivers – underlying reasons to electrify (policy, costs, carbon etc) [2]
4. Energy efficiency – technologies and practices lowering energy use for the same outcomes [3]
5. Electrolyser demand patterns – the timing of hydrogen production's use of electricity across day and season [2]
6. Hydrogen technology – ongoing development of hydrogen production technologies [7]
7. Gas Prices – prices observed by gas users [1]

Long term impact to electricity forecast (> 5 years)

A	B	C
D	E	F
G	H	I

Short term impact to electricity forecast (≤5 years)

Improvement category:
Forecasting driver
Forecasting assumptions
Forecasting methodology
Stakeholder education
Data and reporting

[#] Number of poll responses per topic

For discussion: a first pass on relative importance DER – PV, Batteries and Electric Vehicles

Draft

AEMO

8. DER degradation – diminishments and failures over time [3]
9. DER technology – ongoing development of solutions [4]
10. DER management – the mix of control and tariff approaches, and their effectiveness [7]
11. DER uptake – the popularity of DER over time [10]
12. EV behaviour – the use patterns of electric vehicles [4]
13. EV uptake – the popularity of electric vehicles [3]
14. Wholesale Demand Response and Demand Side Participation [2]

"In relation to the 2023 IASR development, list key topics that may influence energy needs in future."

Long term impact to electricity forecast (> 5 years)

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Short term impact to electricity forecast (≤5 years)

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