

SAPN DSO briefing

Advisory group drop-in session

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Innovation



Empowering South Australia

South Australia's (SA) Consumer Energy Resource (CER) context

73% of net annual demand met by renewables in 2025



Nearly 50% of homes have rooftop solar



~600MW / ~1.7GWh of home batteries



3.2GW+ rooftop PV



3.3GW peak demand



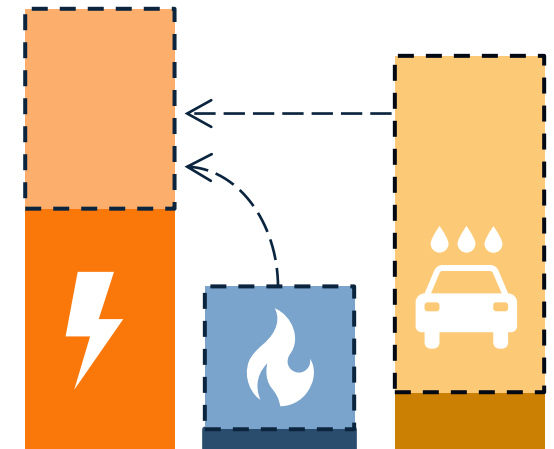
1.5GW average demand



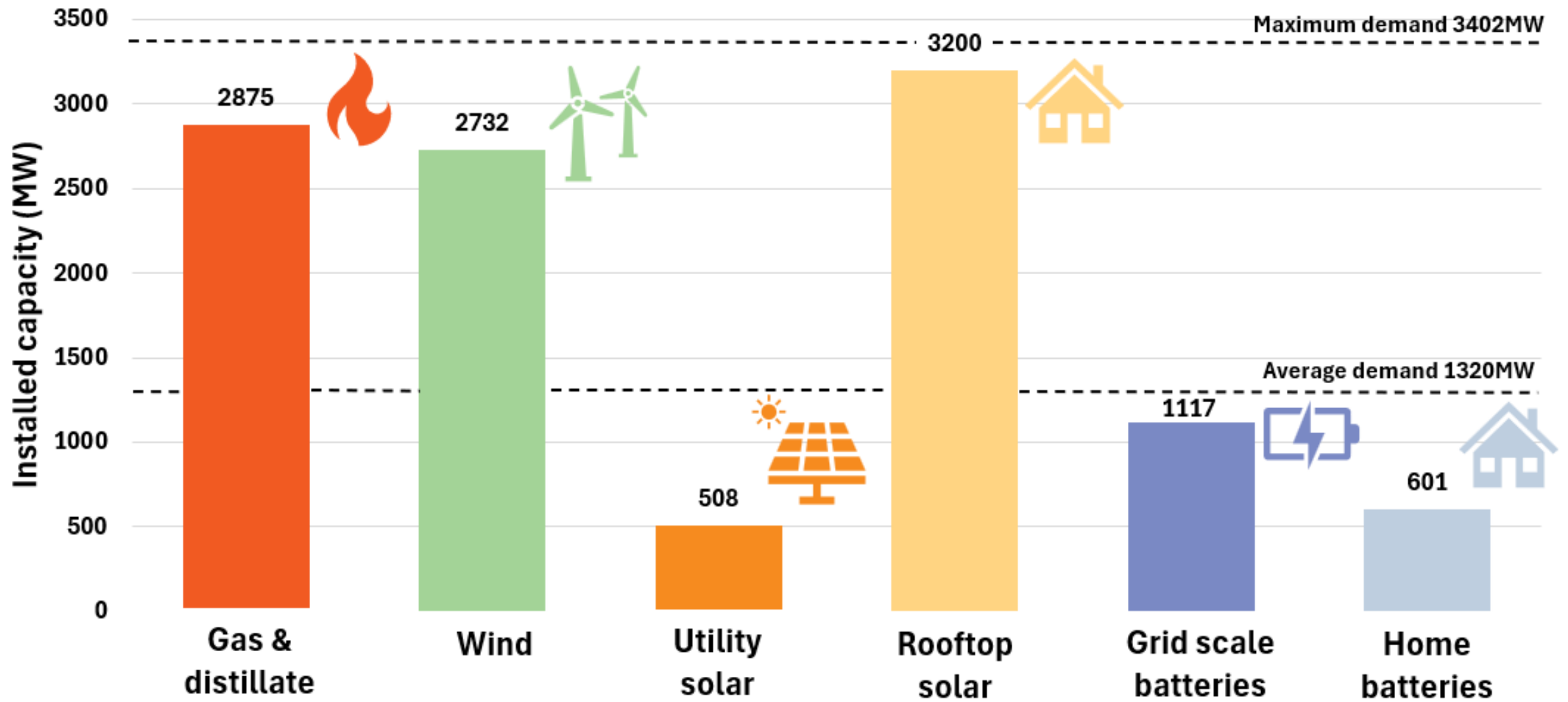
Record -263MW Operational Demand Christmas Day 2025



Electrification could double energy throughput of the distribution network

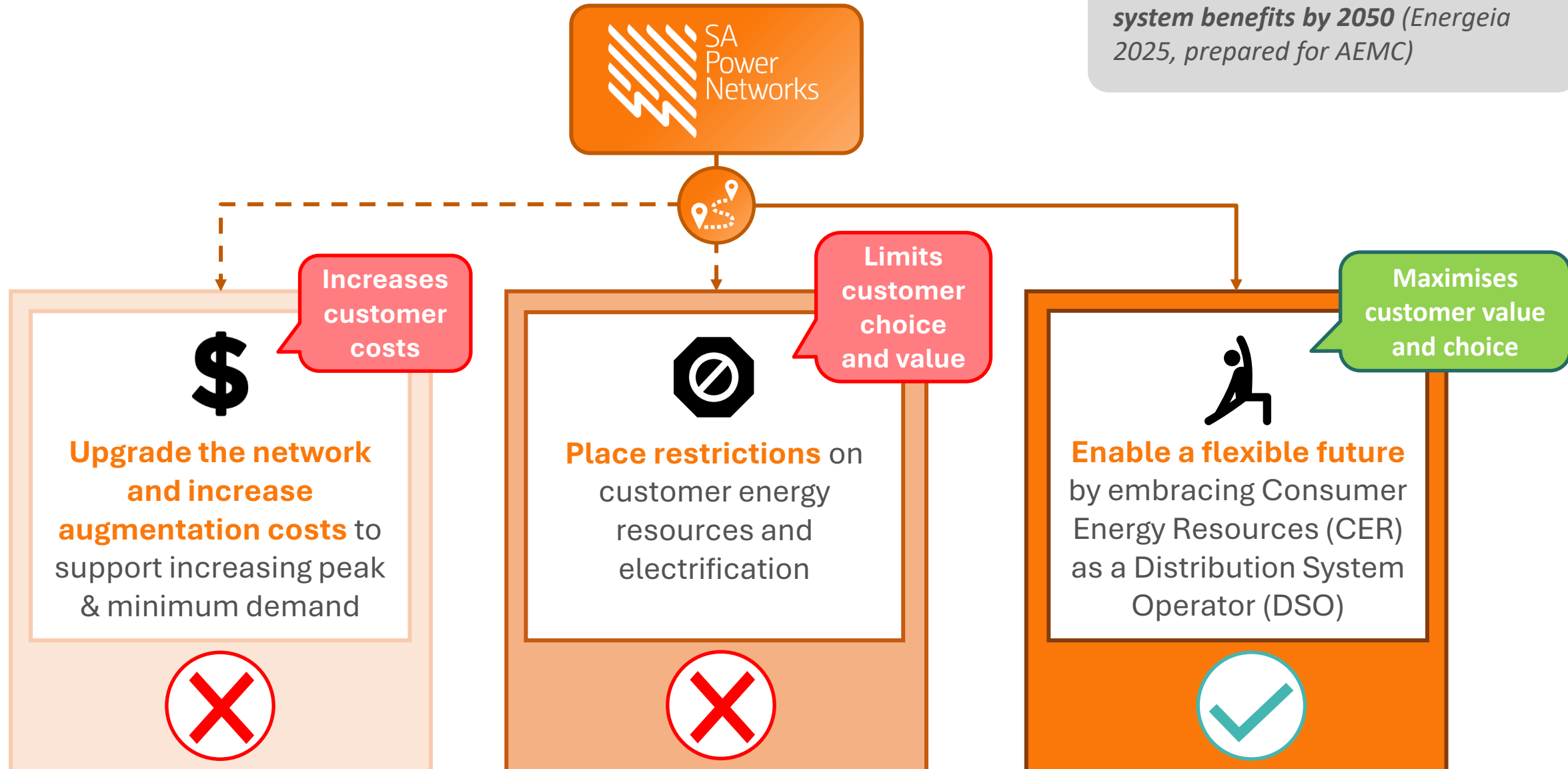


Generators in South Australia

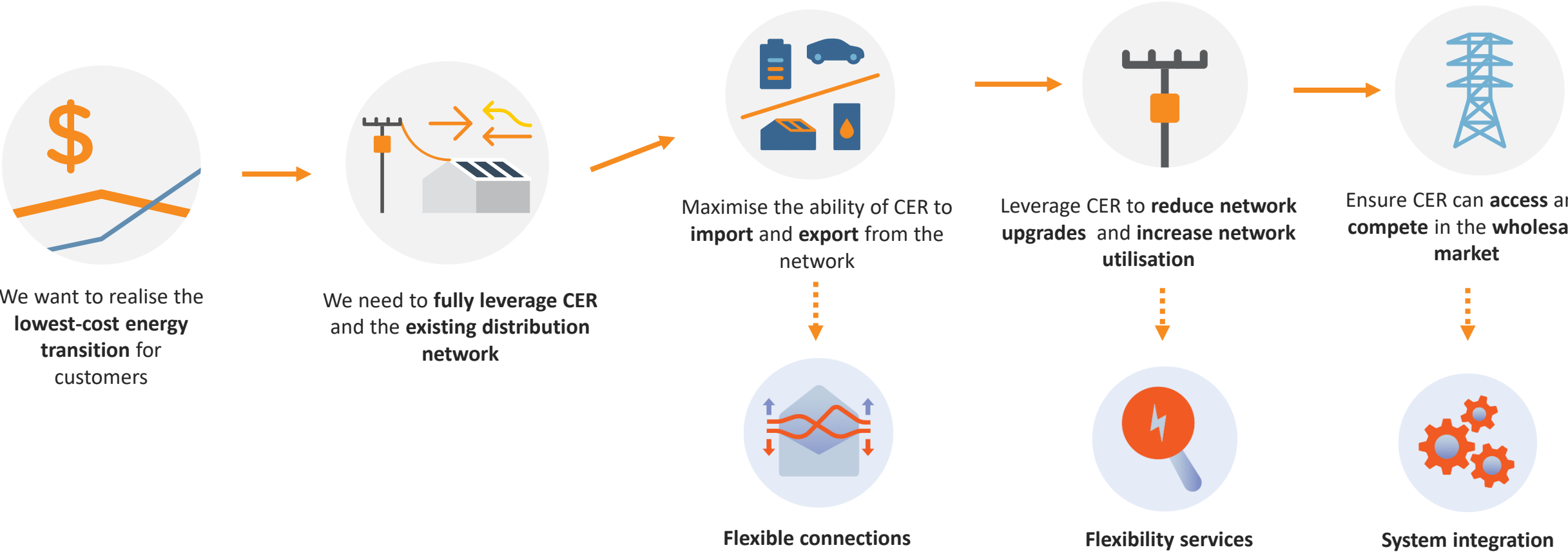


What are our options?

CER integration (retailer VPP and DNSP flex) could deliver \$45B of system benefits by 2050 (Energieia 2025, prepared for AEMC)



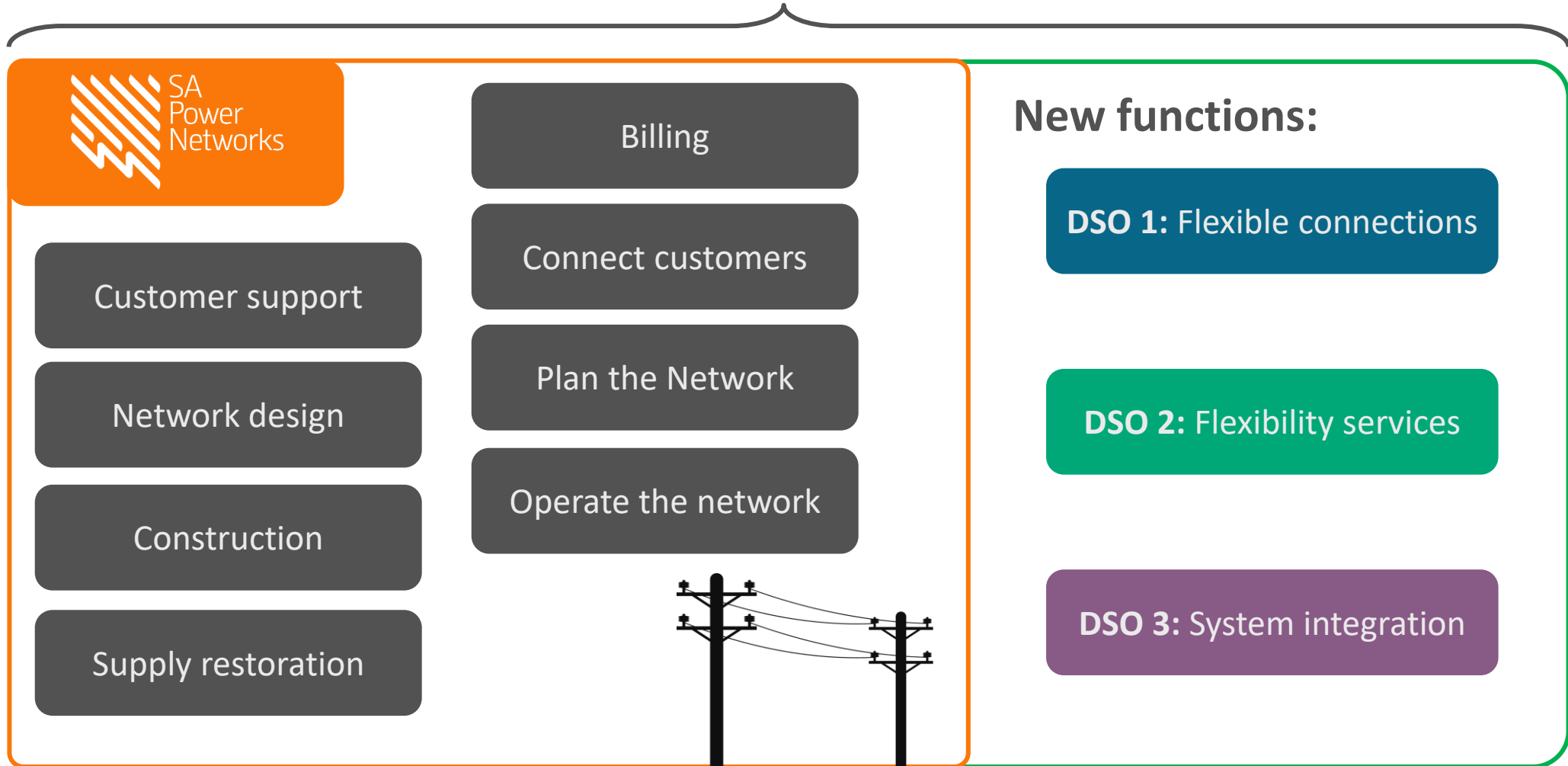
Why be a DSO?



DSO is an *evolution* of our existing role



6



Evolve the core

Enable the future

DSO 1.0: Flexible Connections

How they work



Dynamic
Operating
Envelope
sent over
Internet
comms

We're already well progressed with Flexible Connections

Example initiatives:

- **Solar Backstop** 200k+ customers
- **Flexible Exports** 29k+ signups
- **Flexible connections for C&I** 30+ sites in pipeline
- **Energy Masters** 130+ installed



Residential customers

- Opt-in
- Greater export
- \$/day rebate for flex load
- Only smart devices respond

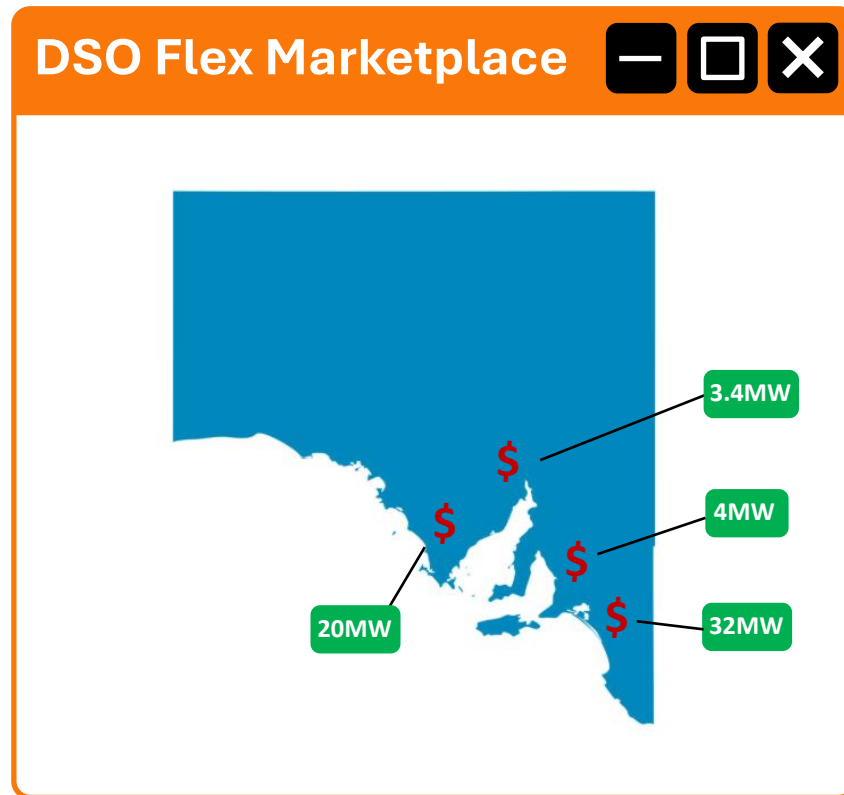
C&I customers

- Cheaper upfront connection
- Ongoing discount on network tariff

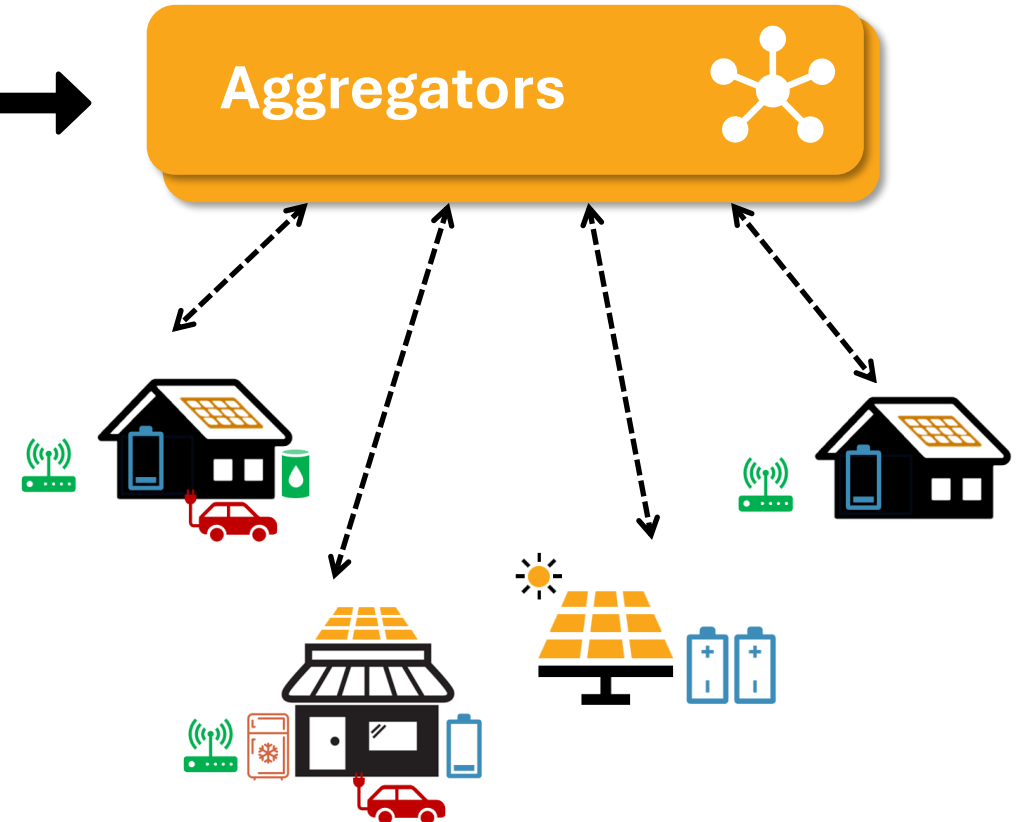
DSO 2.0: Flexibility Services

Our next priority

We will develop a new marketplace that publishes network capacity constraints



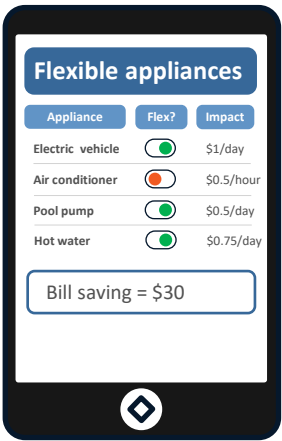
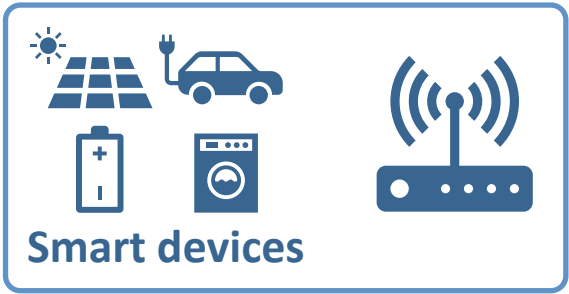
Aggregators & large customers
'bid' to provide network services
New value stream for VPPs



This must be simple for customers... and TRUST is key

What the customer sees

Freedom to churn between offers

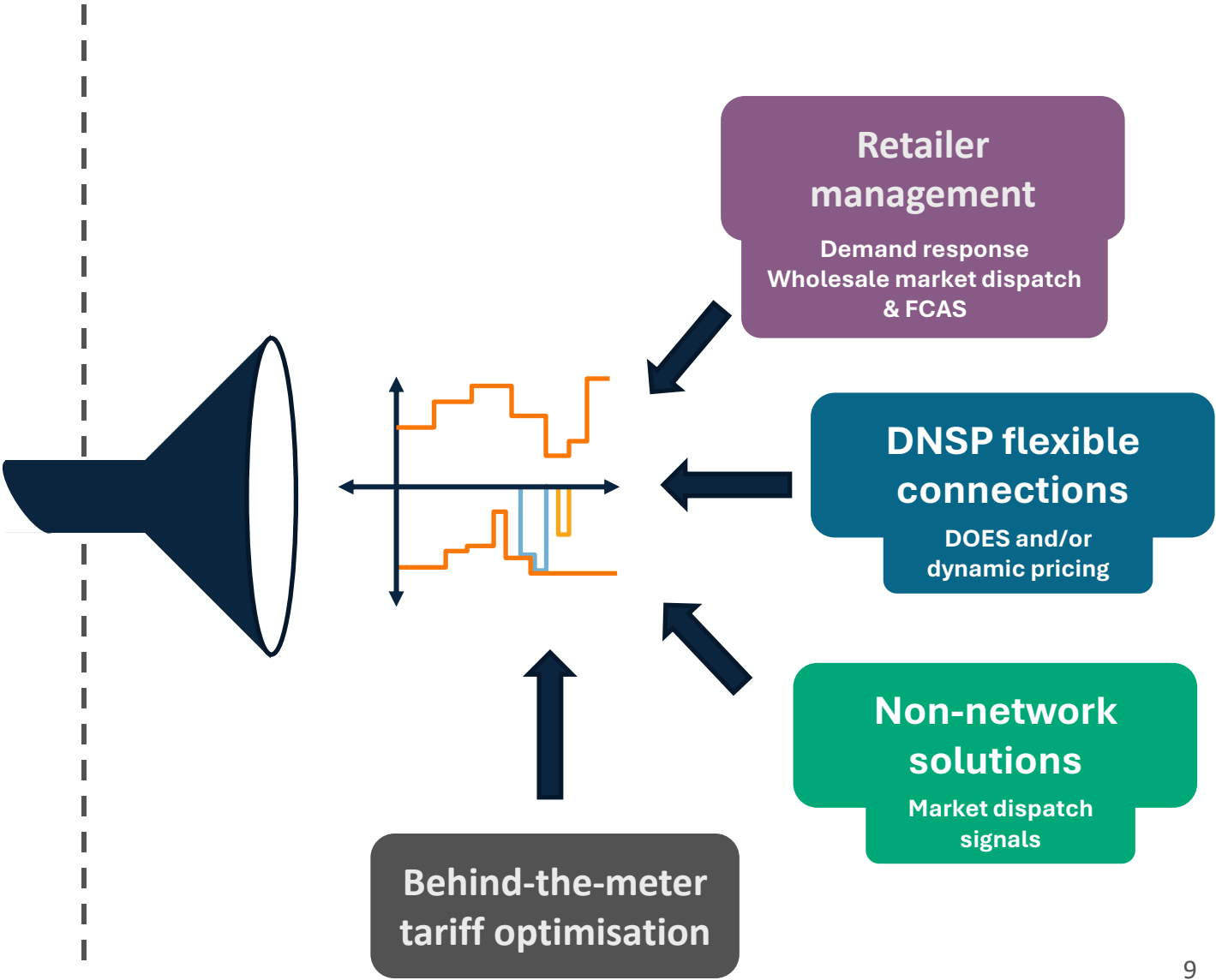


Single app view
Set and forget

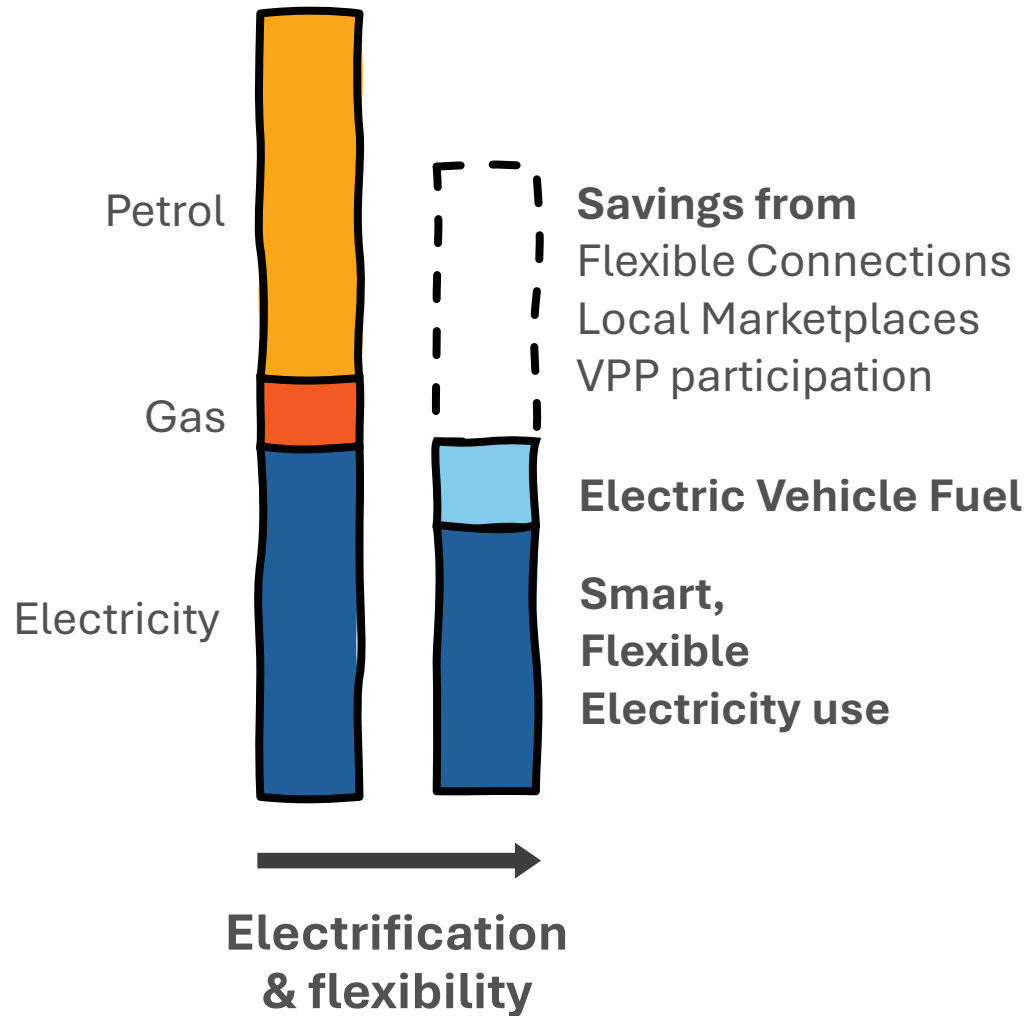


Single, unified bill with simple pricing

What the customer doesn't see



Customer outcomes



Customers have access to simple retail offers that combine the benefits of network, market, and in-home optimisation – enabled by smart ‘plug-and-play’ technology.

Customers can choose their level of sophistication and engagement, are rewarded for increased flexibility, and have the freedom to switch between different retailers and product lines.

Benefits from flexibility are maximised without impact to customer amenity.

DSO and our advisory groups

FEAG

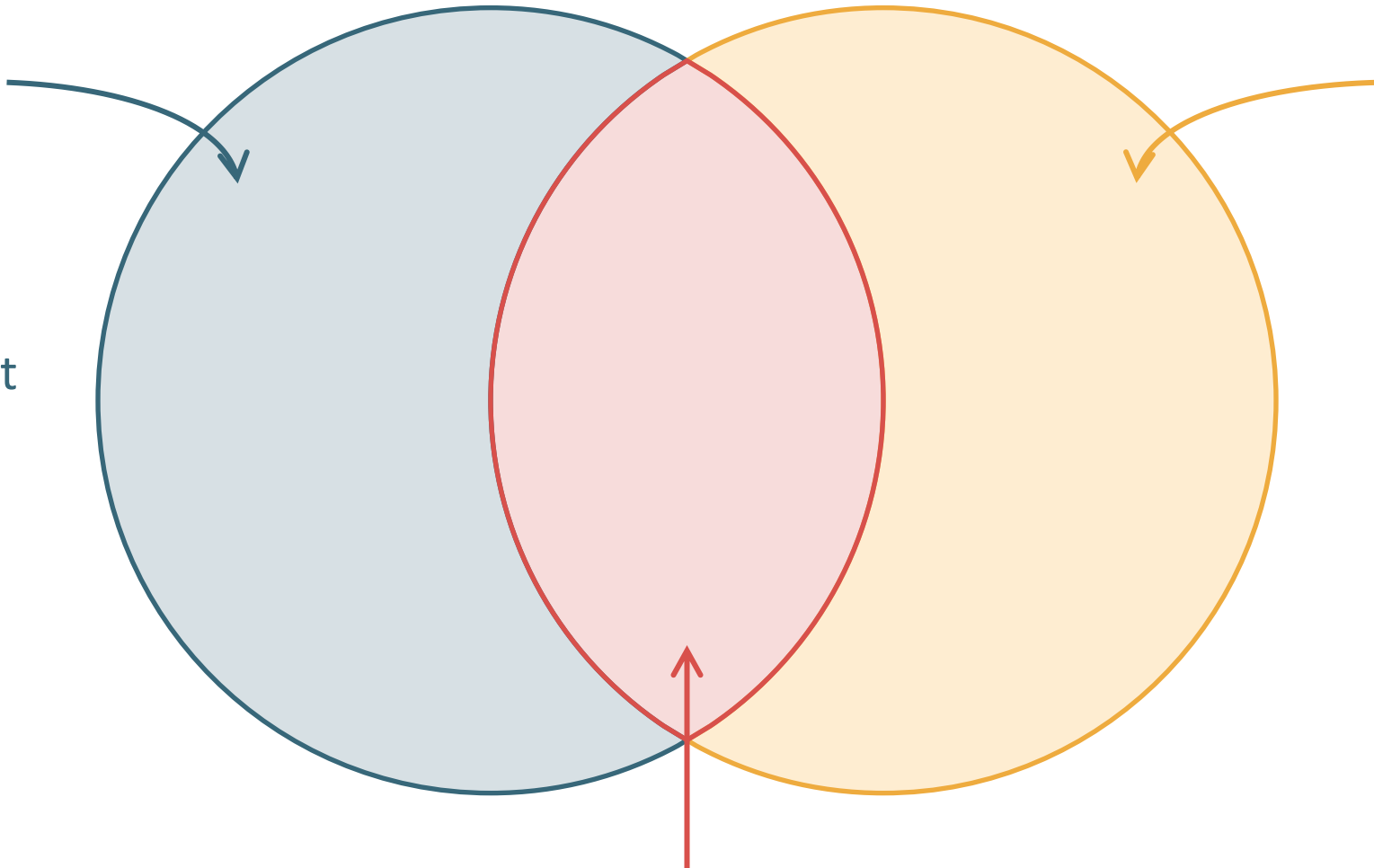
- DSO policy, strategy and projects
- Detailed industry input

IAG

- Customer, AM&O and DSO projects funded by the \$20m innovation fund
- High level, framing, scope and knowledge sharing input

FEAG / IAG overlap

- DSO projects funded by the Innovation Fund



DSO and our advisory groups

e.g. Flexibility marketplace

FEAG

- DSO policy, strategy and projects
- Detailed industry input

e.g. input on the design of market services, technical integrations, industry stakeholder engagement & national harmonisation
Input spans trial and BAU

IAG

- Customer, AM&O and DSO projects funded by the \$20m innovation fund
- High level, framing, scope and knowledge sharing input

e.g. input on the scope, framing and knowledge sharing of the IF trial project

FEAG / IAG overlap

- DSO projects funded by the Innovation Fund



Empowering South Australia

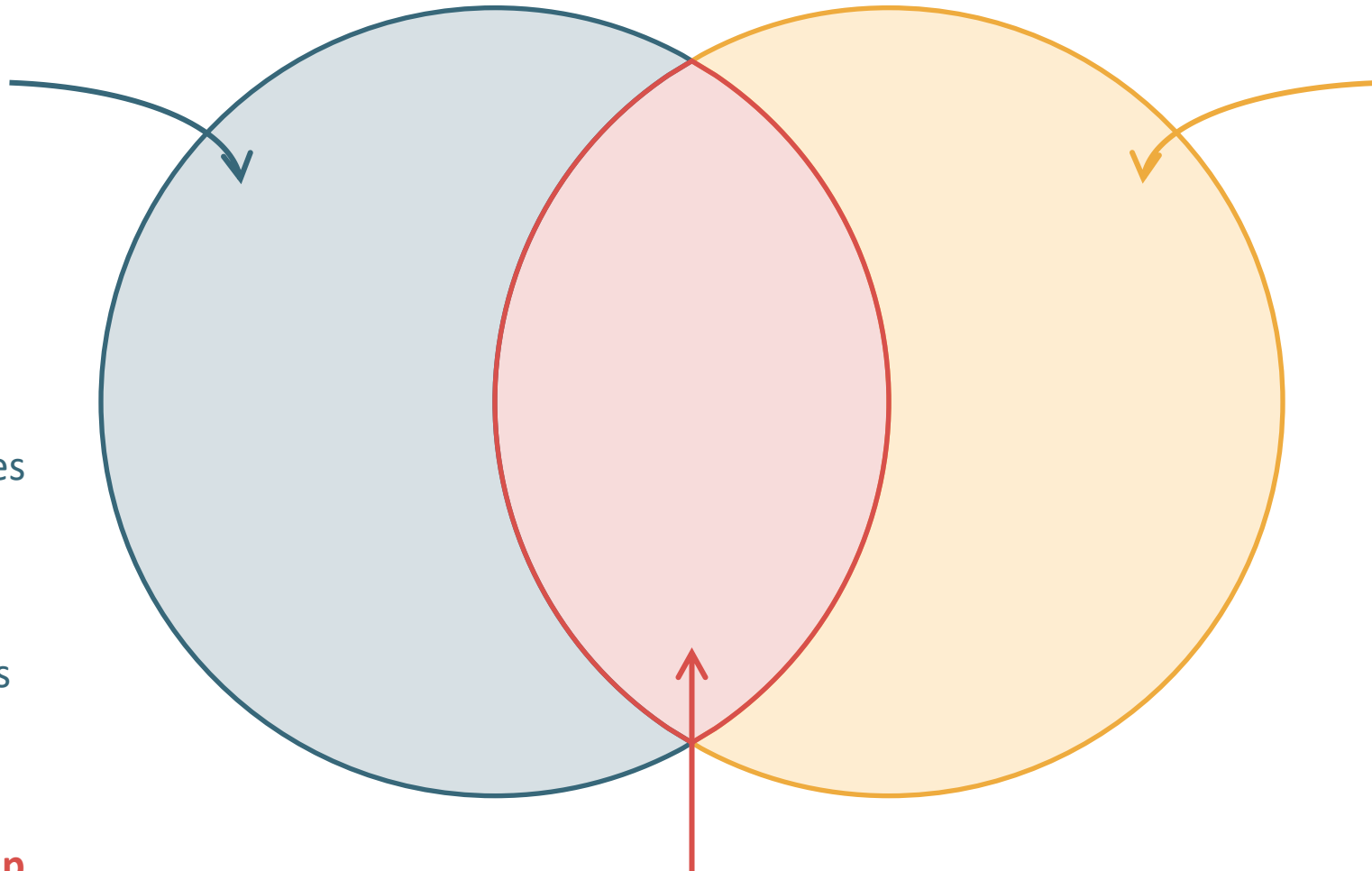
DSO and our advisory groups

Future Energy Advisory Group (FEAG)

- Provides advice and input on all things DSO policy, strategy and delivery
- Group often goes very deep on individual matters and workshops ideas

FEAG / IAG overlap

- DSO projects are funded from various sources: regulatory capex, ARENA and Innovation Fund
- DSO projects funded by the Innovation Fund will go through the IAG process for high-level input to support fund governance, but may also come to FEAG for detailed industry input



Innovation Advisory Group (IAG)

- Provides stakeholder input to projects funded by the \$20m innovation fund
- Innovation fund projects span customer, asset management and operations and DSO domains
- Advice is related to shaping high level framing, scope and knowledge sharing