

Dynamic solar management via DENOP

Customer Forum

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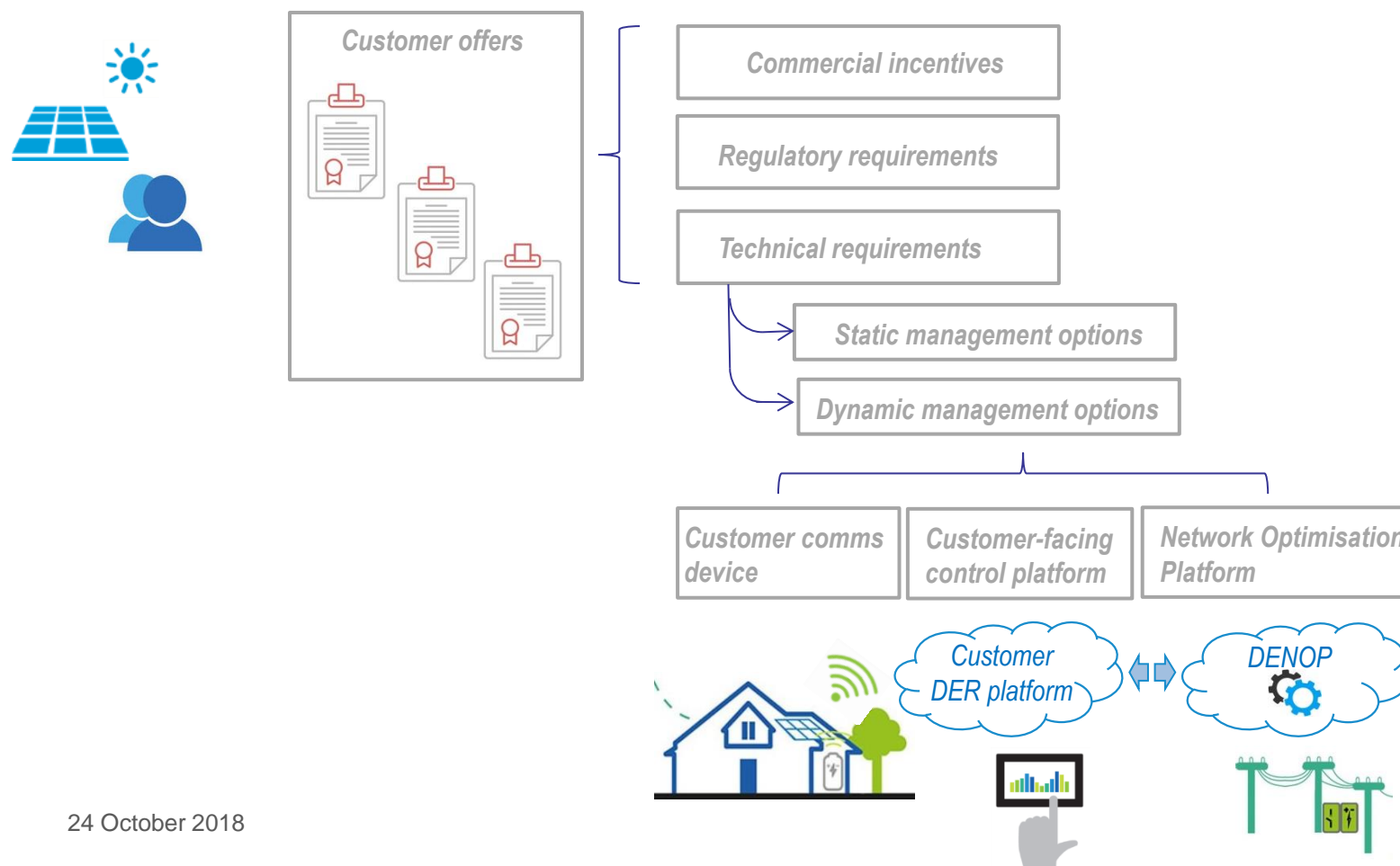
Overview and objectives

- ▶ **Dynamic management of customer solar exports (and DER more generally) is a concept that we expect can allow:**
 - › More customers to be able to connect solar
 - › Improved power quality (less voltage issues)
 - › Reduced costs for networks upgrades and mitigations
 - › Greater customer choice around connection options (flexible connections)
 - › Greater exports to be enabled at times when network is capable

- ▶ **Turning this concept into reality is a large work program:**
 - › Understand customer experience requirements
 - › Model and test the technical requirements
 - › Establish new customer offers and business processes
 - › Establish new software capability (DENOP)
 - › Collaborate with tech providers & installers to ensure control integration
 - › Engage with stakeholders: customer groups, industry groups, reg bodies

Where does DENOP fit?

► DENOP enables a future state of multiple connection options



Potential customer options

▶ Examples of hypothetical customer offers that could be made on the back of dynamic management capabilities:

› Lower cost 'Flexible connections'

A flexible connection option that allows dynamic DER control could be offered at a lower cost to 'firm' connection options. Control could be limitation of exports, requests for voltage support or controlled load. Flexible connections could be a standard offer, or only where DER constraints exist, as an alternative to zero export settings.

› Required for large DER systems

DER above a certain export capacity is allowed with dynamic management (as an alternative to customer-funded connection works). Exports are reduced at times of constraint. This could allow customers to install larger systems and might be of interest to customers enrolled in virtual power plant schemes.

› Network Support Programs

Payments can be offered to customers where managed DER can provide network benefits such as reducing peak demand or improving power quality

How it might work...



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