



**International
Energy Agency**
Secure
Sustainable
Together

Roles and Responsibilities in Smart Networks

Setting the scene

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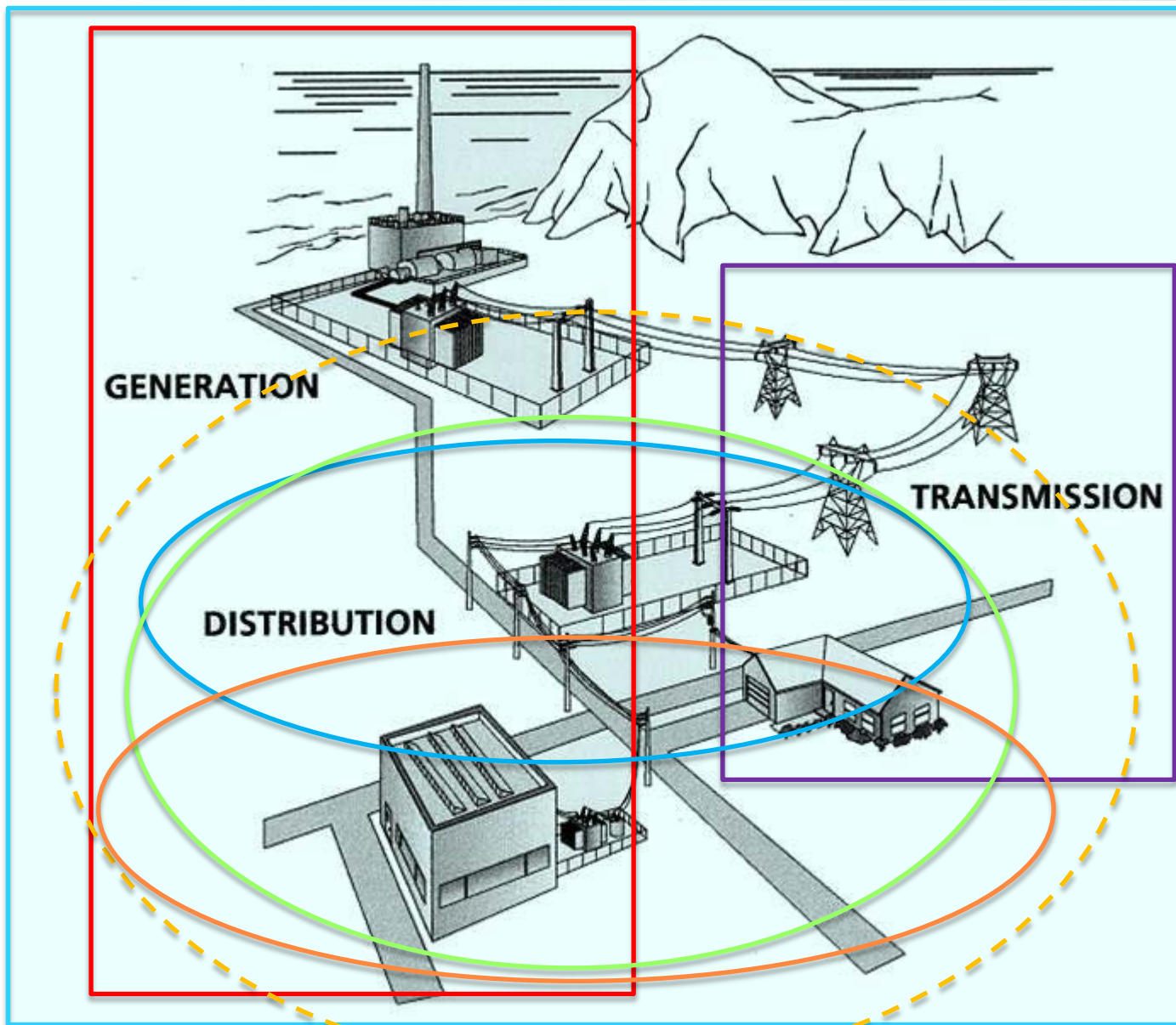
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Today's focus



(Regulator)

Integrated
utility

Unbundled
utility

Transmission
system
operator

Distribution
system
operator

Retailer

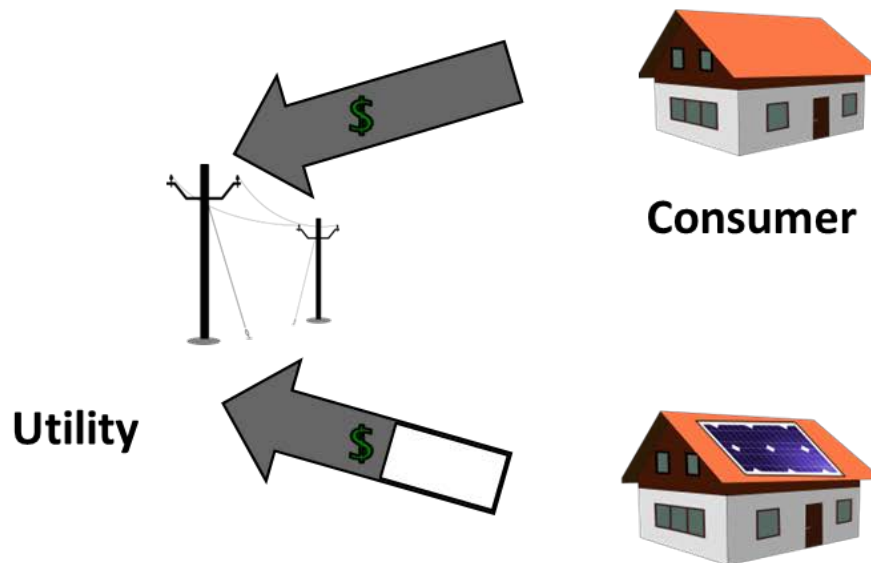
Aggregator

ICT provider

Payment for provided services

Consumers pay fixed & volumetric charges

→ No incentive to reduce peak load contribution



Net Energy Metering is applied for DER

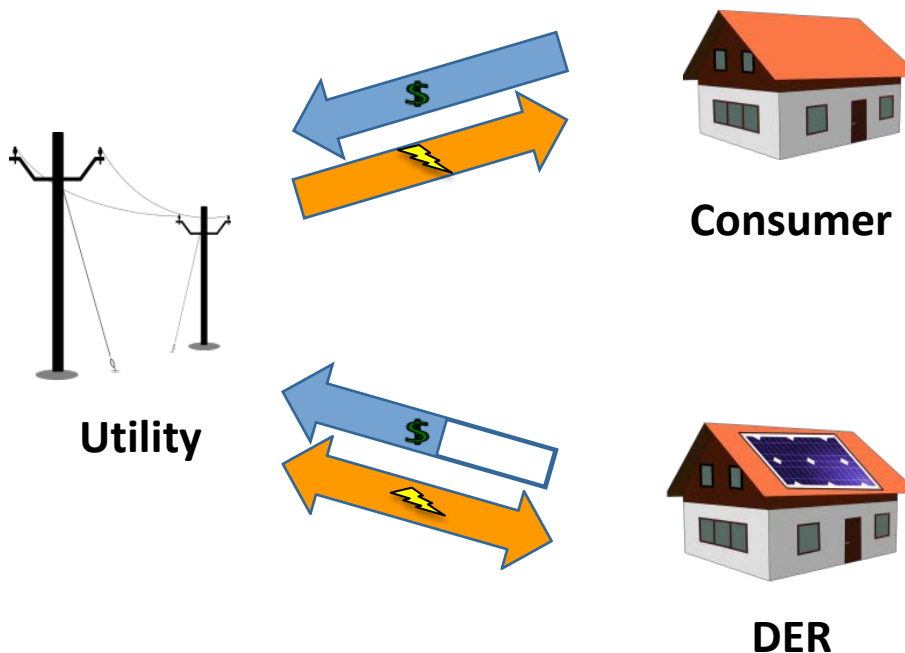
→ Reduced revenues for utilities

→ No incentive for DER to provide system services

Key objectives

Provide load management incentive

**Enable
reliable
revenue**



Enable and remunerate DER-auxiliary services