

# FLEXIBILITY

Maximizing DER integration  
while keeping the grid safe

EcoStruxure™ DERMS

[se.com](https://se.com)





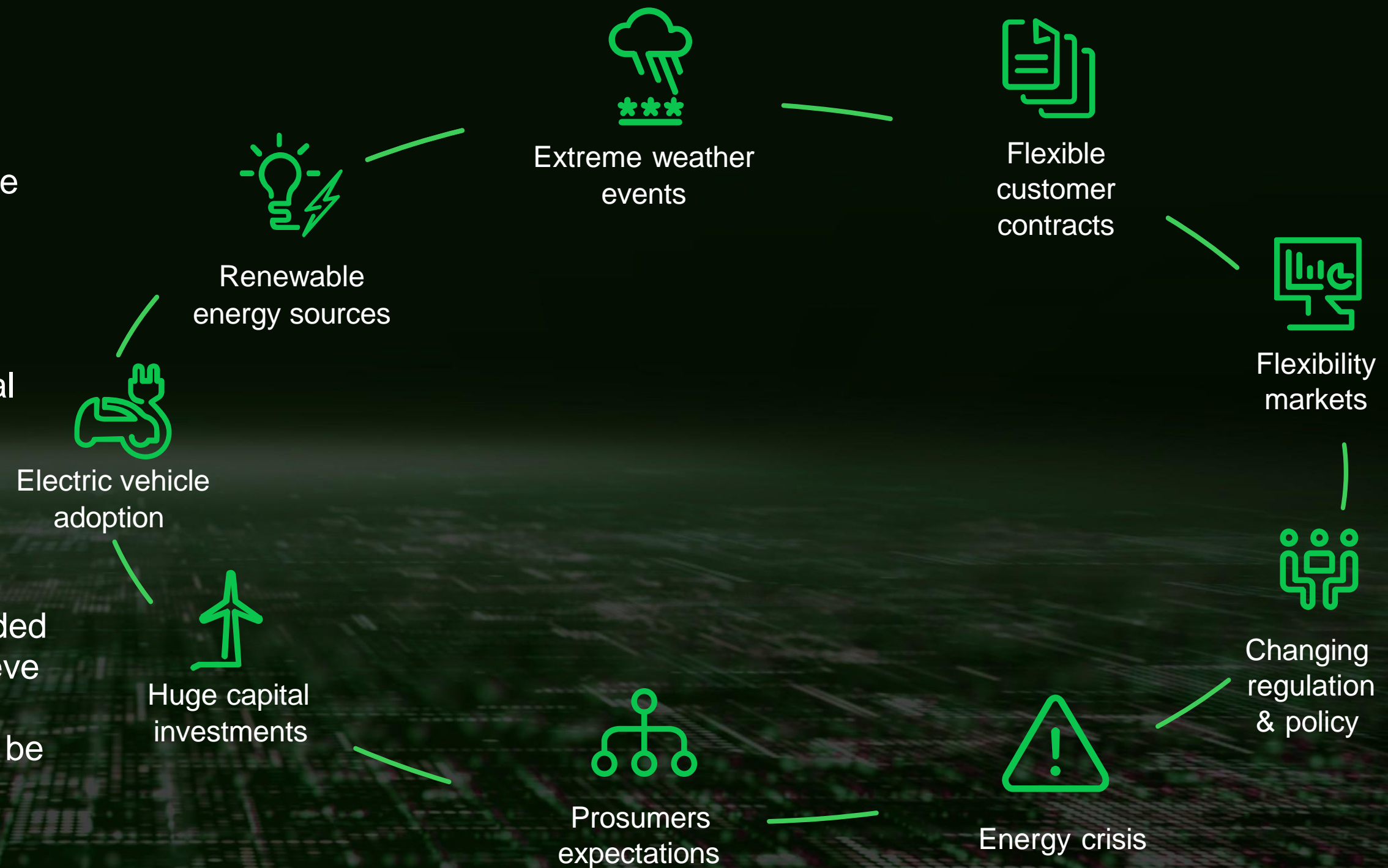
# Industry challenges

## Driving utilities to adopt the future

As climate challenges directly influence the ways we consume and produce energy, the net zero pledges that many countries have made for 2050 are reshaping the landscape of the utility business. The ongoing efforts towards decarbonization are driving a significant rise in renewable energy sources integrated into the distribution grid. Furthermore, the widespread adoption of electric vehicles and growing trends of self-consumption are transforming the conventional consumers into prosumers.

Connecting all renewables and electric vehicles to the grid demands huge capital investments. However, a crucial resource emerging to facilitate a successful transition to clean energy is the flexibility provided by DERs. By embracing flexibility as an alternative, utilities can achieve substantial savings in capital expenditures. To seize this opportunity, utilities must continually engage in grid orchestration, which can only be accomplished through the adoption of digital technologies.

On top of that, prosumers' expectations are continuously increasing, with utilities having the need to find an answer in a form of prosumer-centric operating model.

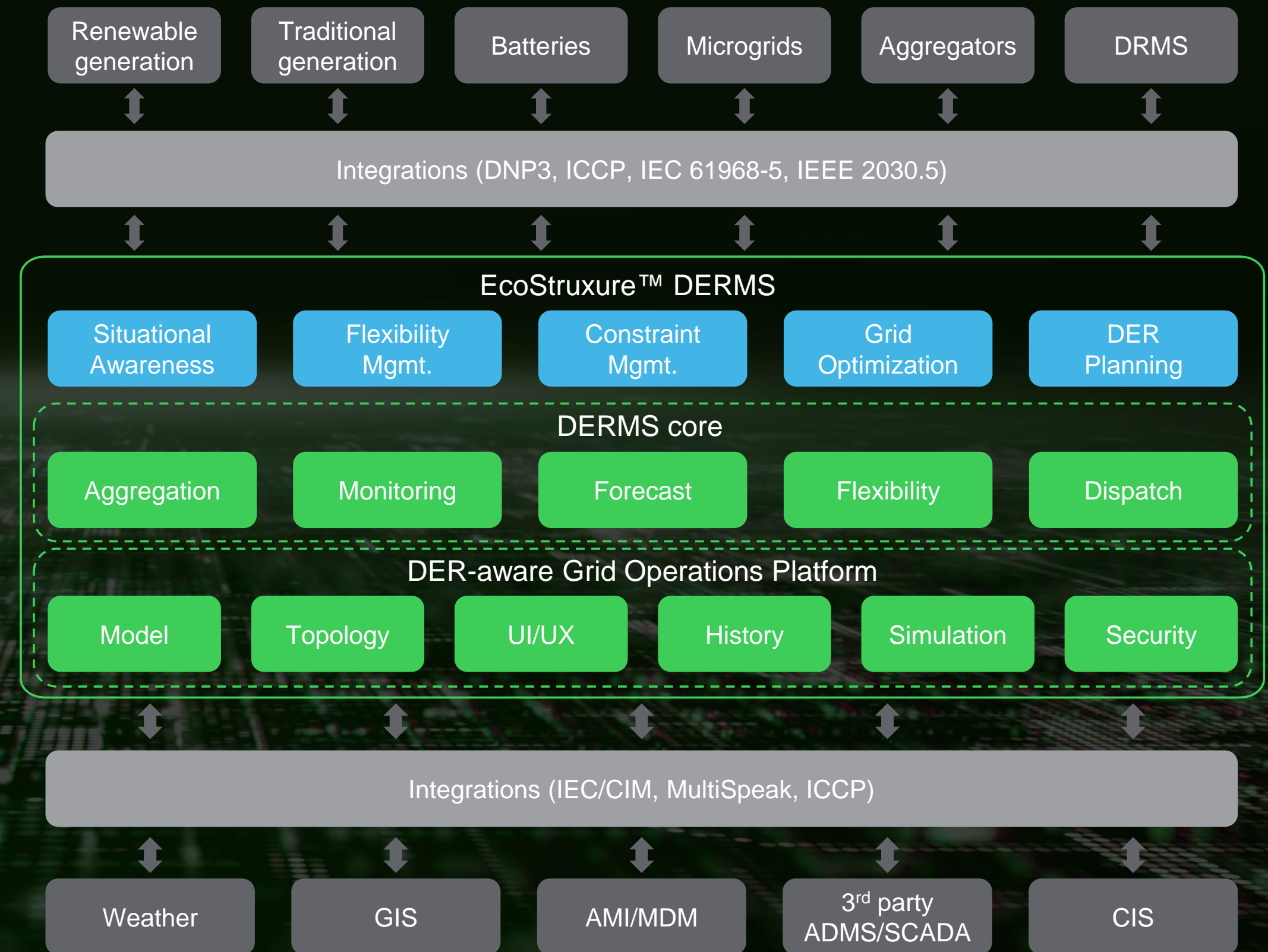




# What is EcoStruxure DERMS on cloud?

## Leading DERMS solution according to Guidehouse Insights Leaderboard

- End-to-end DER management (from planning to operation)
- Look-ahead and real-time constraint management
- From measurement to model-based approach
- Facilitating new types of services and markets
- Situational awareness and hidden load information
- Grid flexibility calculations
- Standardized communication with DERs
- Integration with external systems (incl 3<sup>rd</sup> party ADMS)
- Seamlessly scale by feeders, users and features
- Cloud solution fully managed by Schneider Electric
- Upholds to highest cybersecurity standards





# Designed with future in mind

## Accelerating transition to new energy landscape

- ✓ Minimized time to production
- ✓ Rapid availability of new features
- ✓ Seamless upgrades
- ✓ Minimized utility's IT costs
- ✓ Scalability w/o upfront capital investments in IT
- ✓ Unlocking flexibility for unlimited DER connection
- ✓ Deferring capital investments
- ✓ Keep electricity affordable, reliable and quality
- ✓ Fast customer connections





# Encouraging stepwise approach

Choose your own starting point

## Exploratory

- ✓ **Full** feature set
- ✓ **Customer's** network & **DER data**
- ✓ Operations w/ **simulated network state**
- ✓ Testing DERs via SCADA / IEEE 2030.5

Start here...

## Production Standard

- ✓ **Real-time DER monitoring,**
- ✓ **DER forecasting,**
- ✓ DER-aware as-operated network state
- ✓ **Measurement-based** constraint mgmt.
- ✓ Verification of DER performance
- ✓ SCADA protocols and IEEE 2030.5

...or here...

## Production Progressive

- ✓ **DERMS Standard** license tier +
- ✓ **Load flow-based** constraint mgmt.
- ✓ Integration with flexibility markets

### Add-on:

- ✓ DER Planning

...or here.



# Bringing value to everyone

From customer all the way to utility CEO



## Maximizes connection of DERs

Increases customer satisfaction by reducing time and cost of DER connections



## Avoids/defers CAPEX

Saves up to 580M \$/€ in CAPEX by using 15% of flexibility capacity



## Ultimate situational awareness

Interfaces all types of DERs and aggregators. Insight into real-time and forecasted behavior and impact



## Unlocking flexibility for constraint management

Constraint management that captures full DER potential by implementing look-ahead and real-time dispatch



## Ready for use in 2 months or less

Cloud technology enables deployment of system making it available for users in record time



## Future-proof

Seamless scaling and rapid access to new features that ensure incremental value over years



## Faster ROI

Capture value quickly by starting with measurement-based approach and gradually progress towards model-based constraint management.



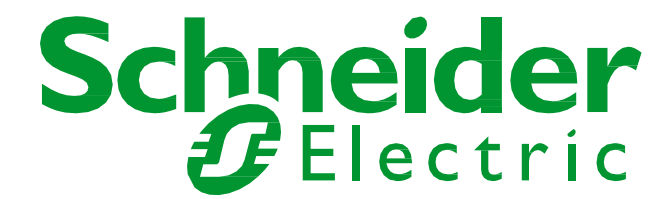
## Grid to Prosumer

Part of the end-to-end DERMS portfolio that covers full lifecycle of DER management.

*"Customer-focused energy solution that will bolster reliability and affordability on the path to a clean energy future.", Patti Poppe, CEO, PG&E Corporation*



Life Is On



Eager to learn more?

- Read [PG&E press release](#)
- [Schedule a demo](#)

[EcoStruxure™ DERMS](#)



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