

## PANEL SESSION – GRID OPERATORS VERSUS EMERGING MARKET PLAYERS

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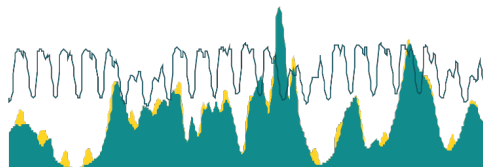


# Facilitating customers energy data management and interoperability

- DATA: user/contract – market – grid – meter – external/support
- DSOs are the neutral market facilitators, also in the future with their data management
- DATA access: transparent, non-discriminatory, near real time, data security, privacy
- Role and responsibilities of the DSO
  - Emerging market functions and requirements regarding their data management
  - Customers, prosumers
  - TSOs
  - suppliers, aggregators, other stakeholders,
- DSOs emerge new services in the new energy system; also with the data and its management: demand side response, congestion management, (local) balancing mechanisms
- Data for Flexibility services: potential assessment, prequalification, measurement, validation, settlement
- Data for TSO-DSO: coordination in planning and operation
- Data for stakeholders: analysis energy usage, energy saving, demand response, dynamic pricing

# Exponential growth in data exchanges

2019

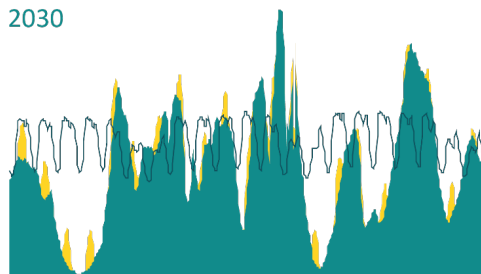


WEEK 1

WEEK 1

WEEK 1

2030



WEEK 1

WEEK 1

WEEK 1

Past



PRODUCENT



GRID

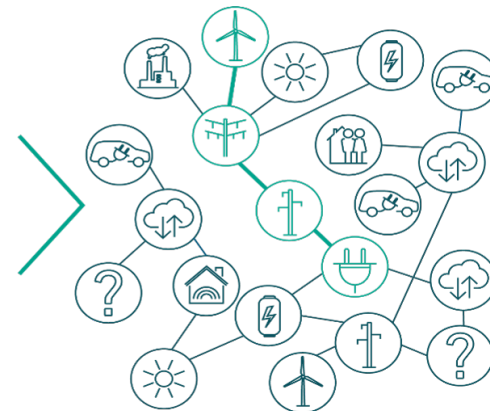


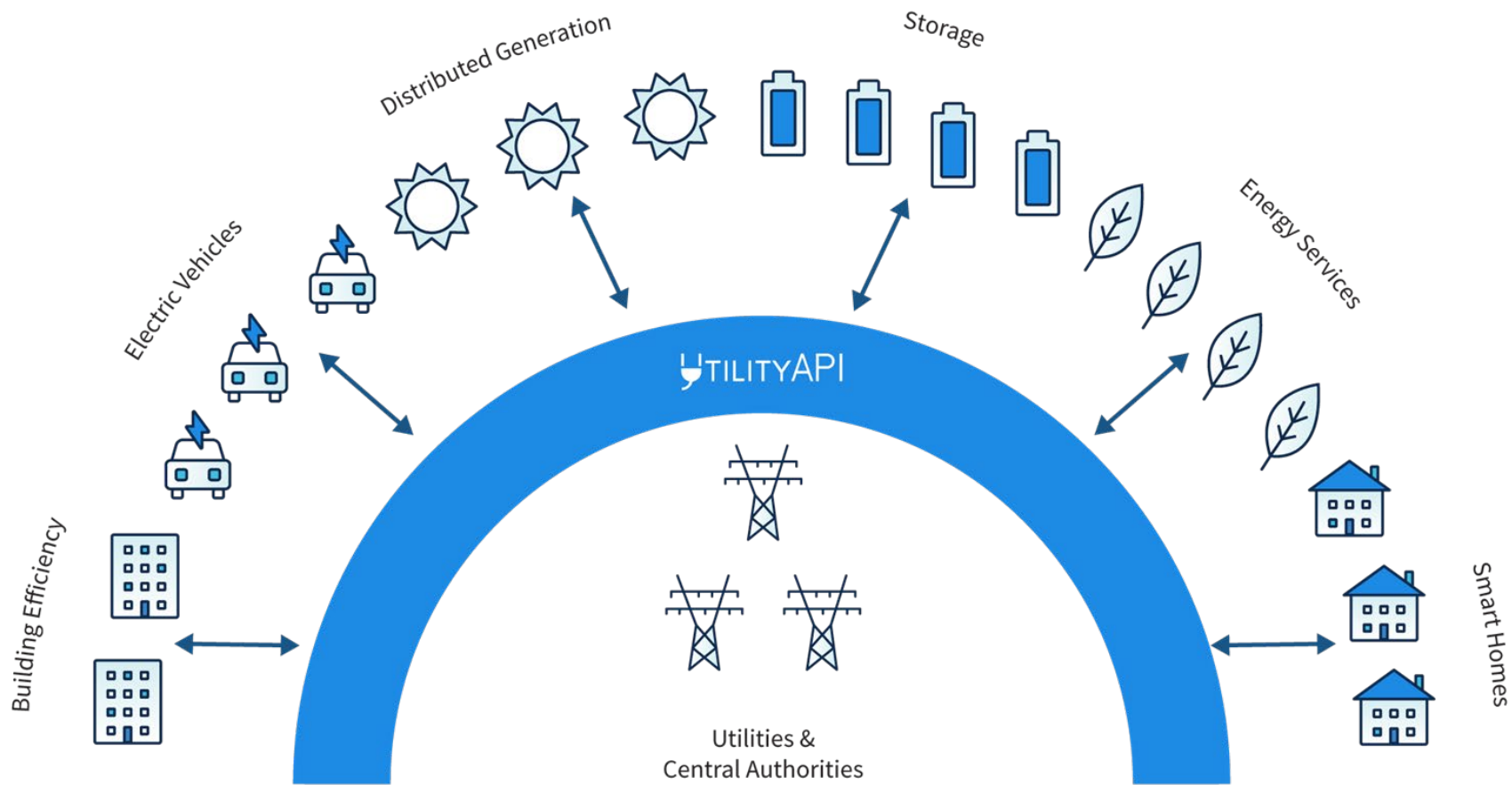
DISTRIBUTION TRADE



CUSTOMER

Future





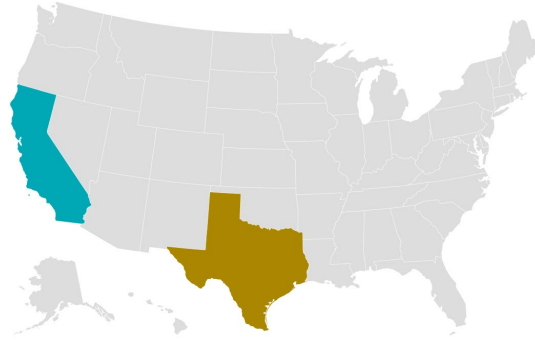
# MISSIONDATA

empowering energy savings

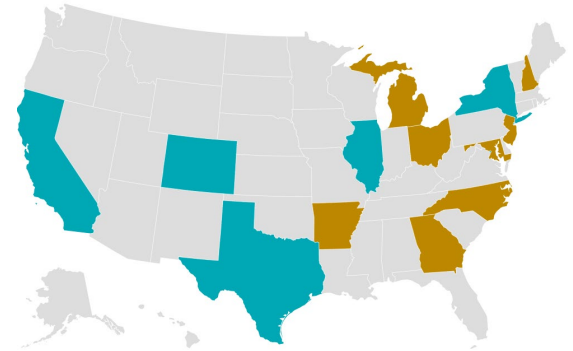


missiondata.io/reports

2014



2020



Policy established

Under consideration

36+ million meters and growing...



# Lessons learned from the U.S. experience

## 1. Plan for poor UX

 **SOUTHERN CALIFORNIA EDISON**  
AN EDISON INTERNATIONAL COMPANY

**CUSTOMER INFORMATION SERVICE REQUEST FOR DEMAND RESPONSE PROVIDERS (CISR-DRP)**

**IMPORTANT INFORMATION FOR CUSTOMERS – BE SURE TO READ FIRST**  
**THIS IS A LEGALLY BINDING CONTRACT – READ IT CAREFULLY**

Southern California Edison's (SCE's) Rule 25 and its corresponding privacy policies, which can be found at <https://www.sce.com/social/home/privacy>, generally do not allow for the disclosure of customers' personal information (such as your name, address, phone number, or electric and billing information) to third parties unless the customer expressly authorizes the disclosure. The purpose of this form is to allow you, the customer, to exercise your right to disclose your personal energy-related information to collaborating Non-Utility Demand Response Providers (DRPs) pursuant to SCE's Rule 24, so that you may obtain Demand Response services. Rule 24 can be accessed at <https://www.sce.com/social/home/privacy/Rule24.pdf>. This form may be used for authorization to release Broadband Service, Community Choice Aggregation (CCA) services, Community Aggregator (CA), and Direct Access (DA) Service customers' personal energy-related information. In some cases two different DRPs may collaborate to help a customer obtain Rule 24 Demand Response services. Accordingly, this form allows for disclosure of your information to both a Primary DRP and an optional Secondary DRP. Alternatively, each DRP may submit its own CISR-DRP form with your consent to receive personal energy-related information about you. Once you authorize access by the DRP(s) to your personal energy-related information, you are responsible for ensuring that the DRP(s) safeguards this information from further disclosure without your consent. Authorization for SCE to release your information under Rule 24 is a separate agreement from the one you may have or may make with the DRP(s) for its services.

This form also grants the DRP(s) the ability to request that SCE make limited charges to the SCE electric meter(s) serving your Service Account(s), as specified in Section C below.

I, (Customer),

Customer Name According to SCE Records		
Contact Name (if different from above)	First Name	Last Name
E-Mail Address	Phone Number	

(You are required to provide at least one e-mail or phone number.)

Do hereby ☐ AUTHORIZE (Sign Section D) ☐ REVOKE (check only one) the following DRP(s) (Sign Section H):

Name of Primary DRP	FED Tax ID	Rule 24 ID
Email Address	Phone Number	

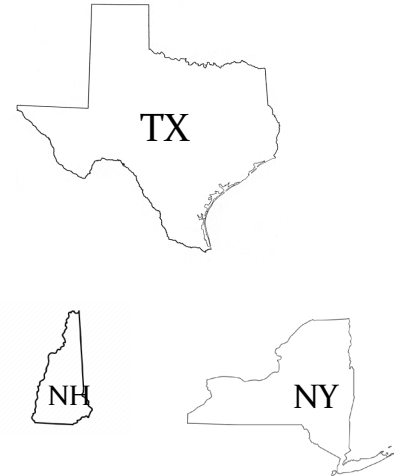
(Complete the following table only if you are authorizing data to be released to a collaborating DRP)

Name of Secondary DRP	FED Tax ID	Rule 24 ID
Email Address	Phone Number	

## 2. Plan for poor quality



## 3. Centralize!





## MISSION

*"Build software solutions to help consumers of any size consume zero-carbon electricity in a transparent and environmental impactful way"*

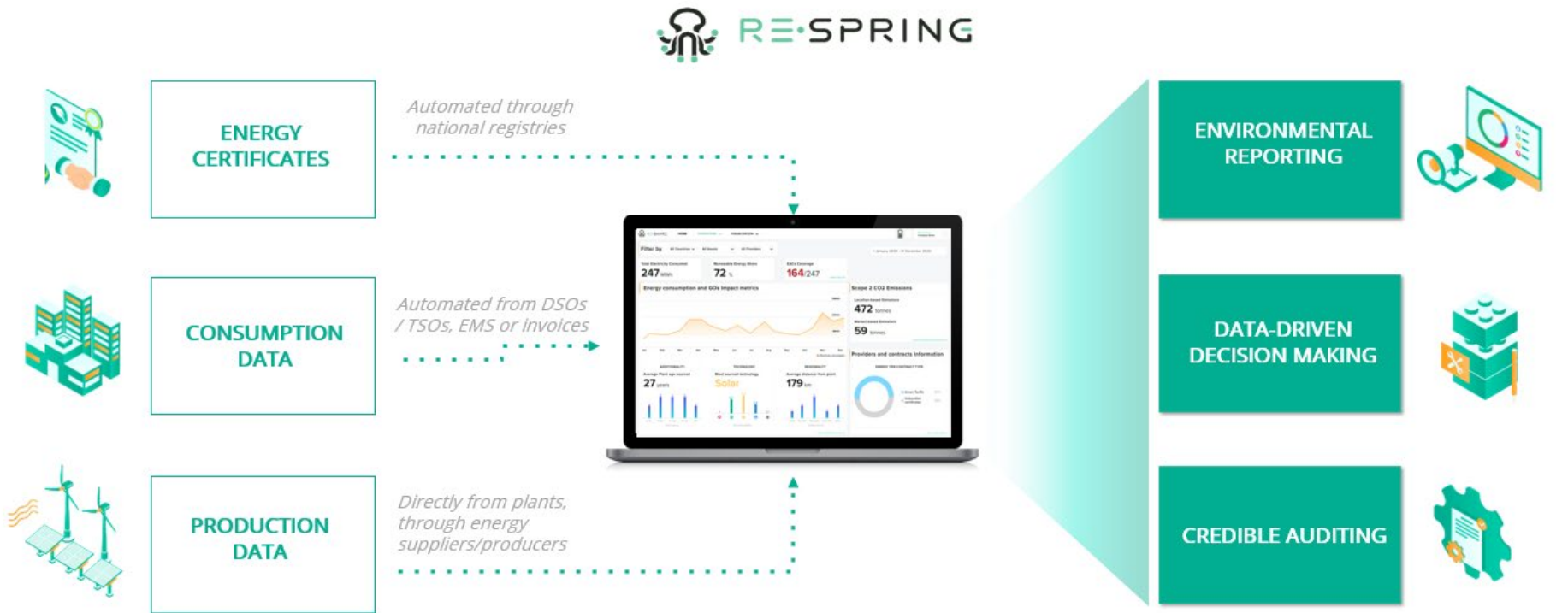


## VISION

*"**24/7 green for all** - businesses and communities able to achieve a full decarbonization of their electricity consumption, every hour of the day, every day of the year"*



# RESpring offers transparent information on the energy that companies buy all around the world





# Our experience with private energy data in Europe

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## NEED

**Frequency:** (at least) hourly

**Availability:**

- Preliminary: day +1 (the day after the physical delivery)
- Final: day + 30

**Format:**

- Accumulated meter readings

**Process:**

- Non discriminatory (both for Data user and Data owner)
- Well-documented
- Digital authorization process



## STATUS & BARRIERS

- Authorized data provider not defined
- Administrative and/or technical process is not defined or not clearly documented
- Requirement to have a national VAT number or a national e-ID (both for Data user requesting access and for Data owner granting authorization)
- Data availability (which consumer & producer types) not documented



# Let's work together on the Future of Energy!



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