



olivine™

## **SOLAR PLUS STORAGE SOLUTIONS**

Community Solar Value Project Webinar, 9/29/2016

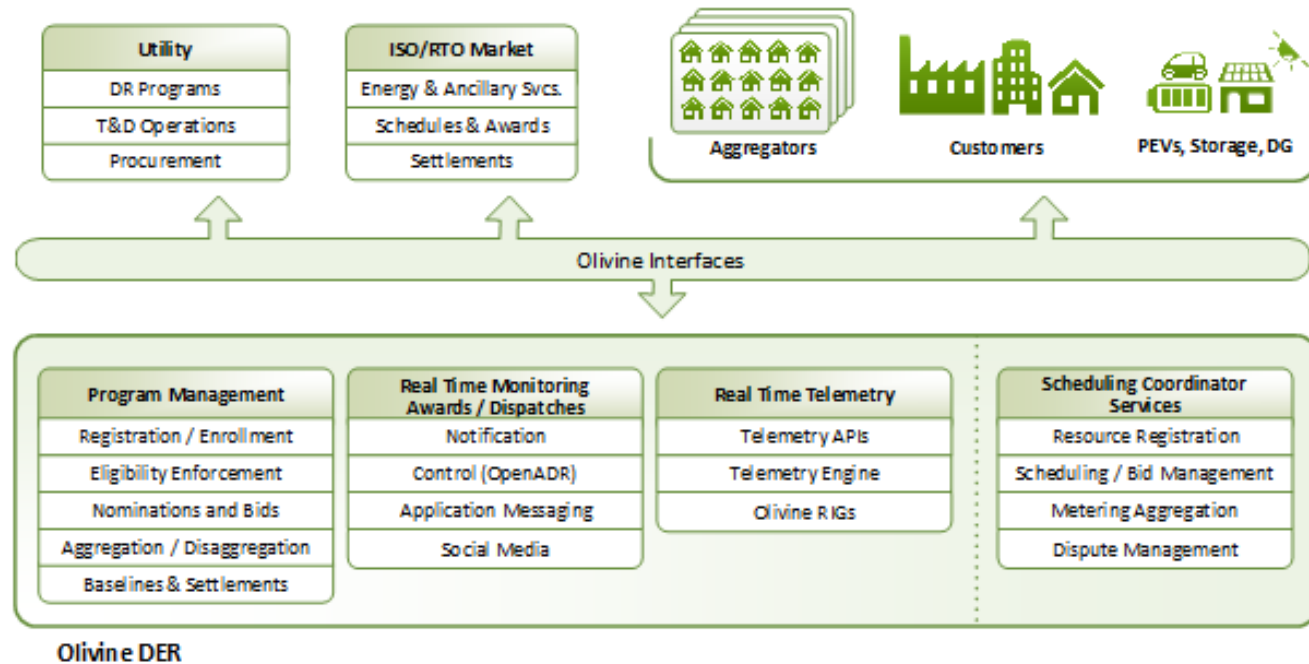
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# Olivine DER



Enabling the monetization of DERs and increasing the penetration of distributed renewables

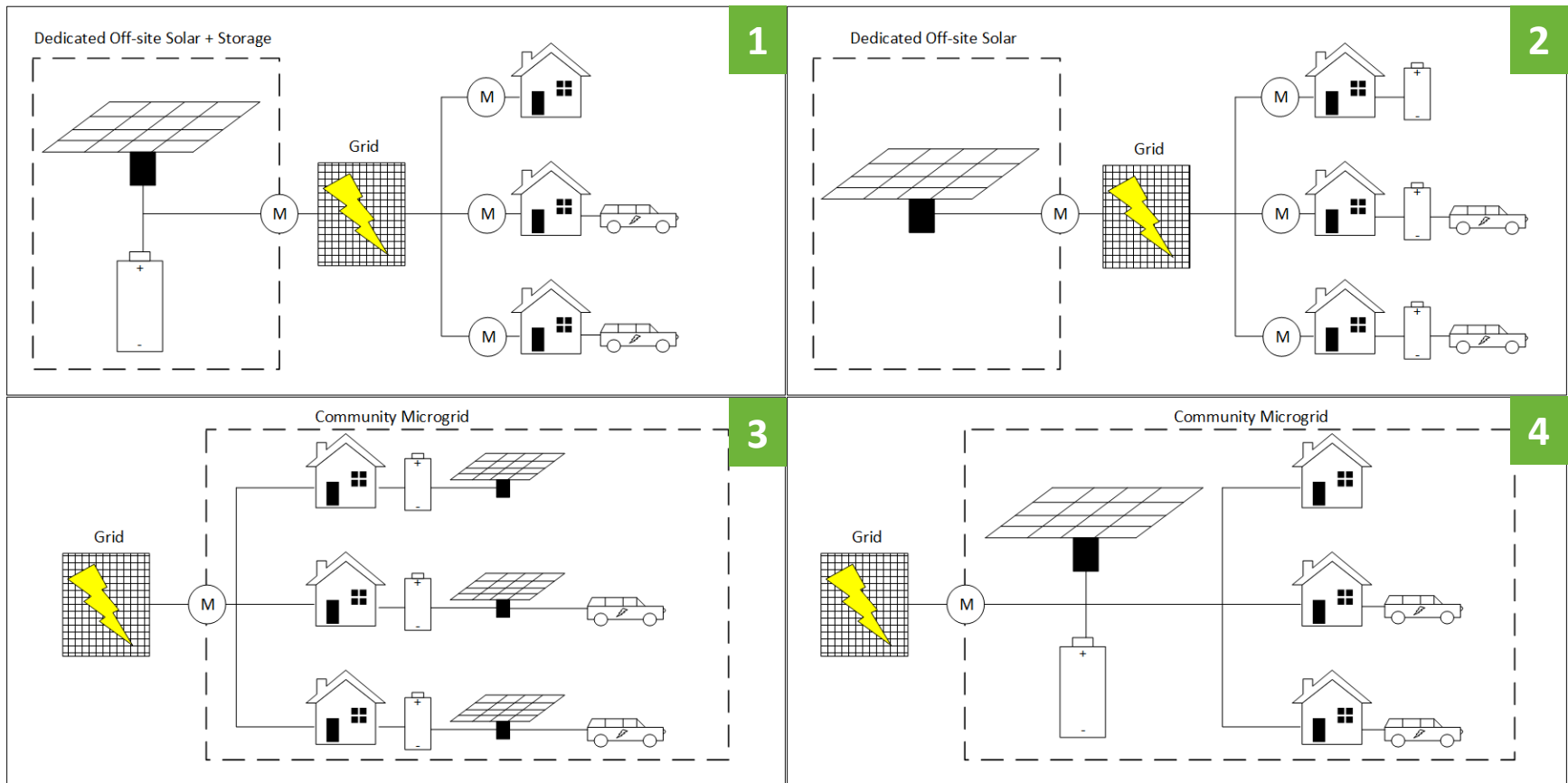
- Technology
- Program design
- Implementation
- Operations
- Consulting services



# Community Solar + Storage Value Proposition



Utility-run community solar programs have many options for integrating solar and storage.



# Use Cases for Community Storage

**Different storage configurations offer different value propositions for utilities and customers**

## Utility grid services

- Demand response
- Voltage and frequency regulation
- Spin / non-spin reserves
- Load shifting
- Transmission and distribution upgrade deferral

## Customer benefits

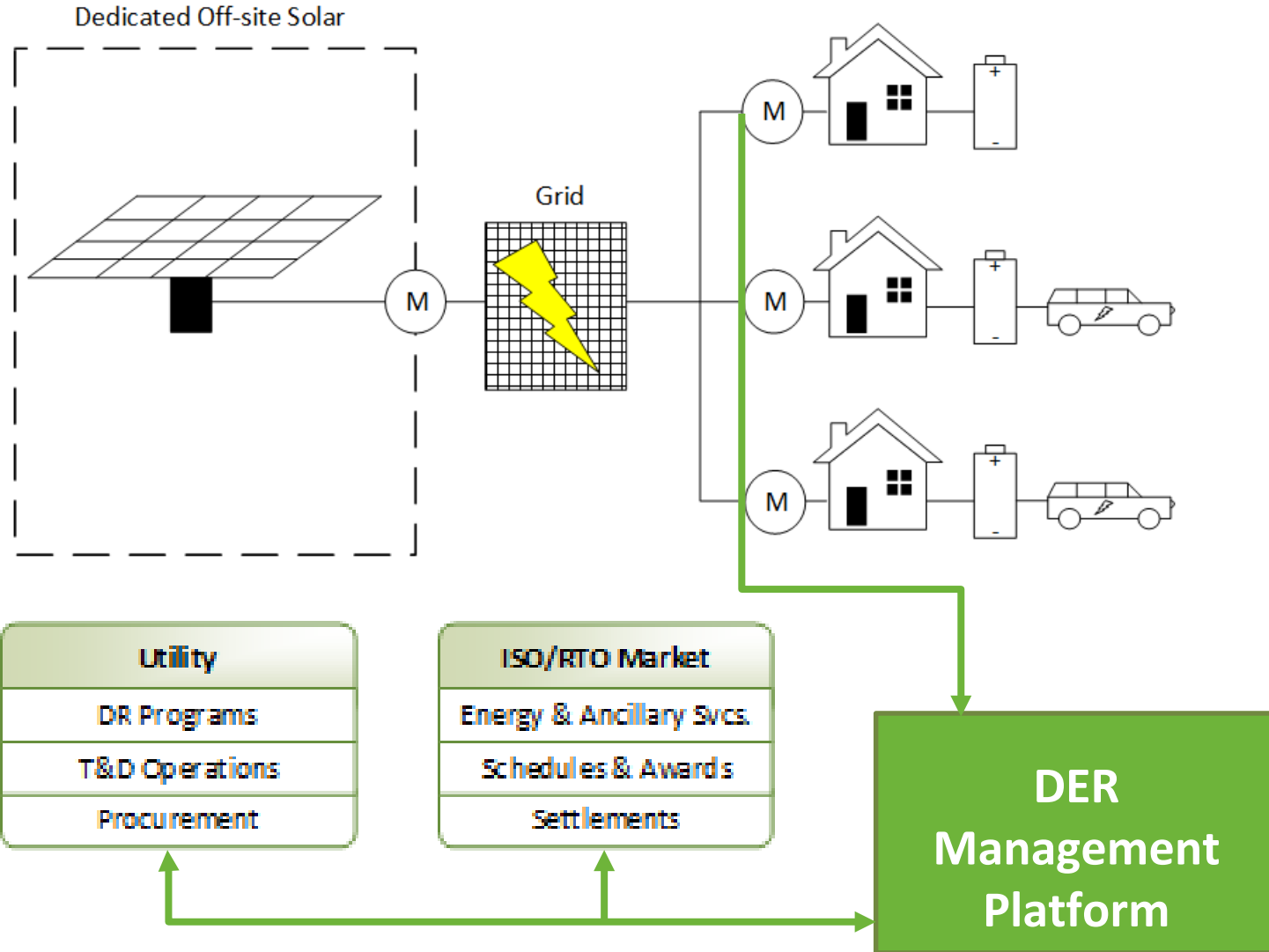
- On site backup power
- Islanding (microgrid)
- Demand charge management
- Zero Net Energy (ZNE)

# Storage Use Cases by Configuration

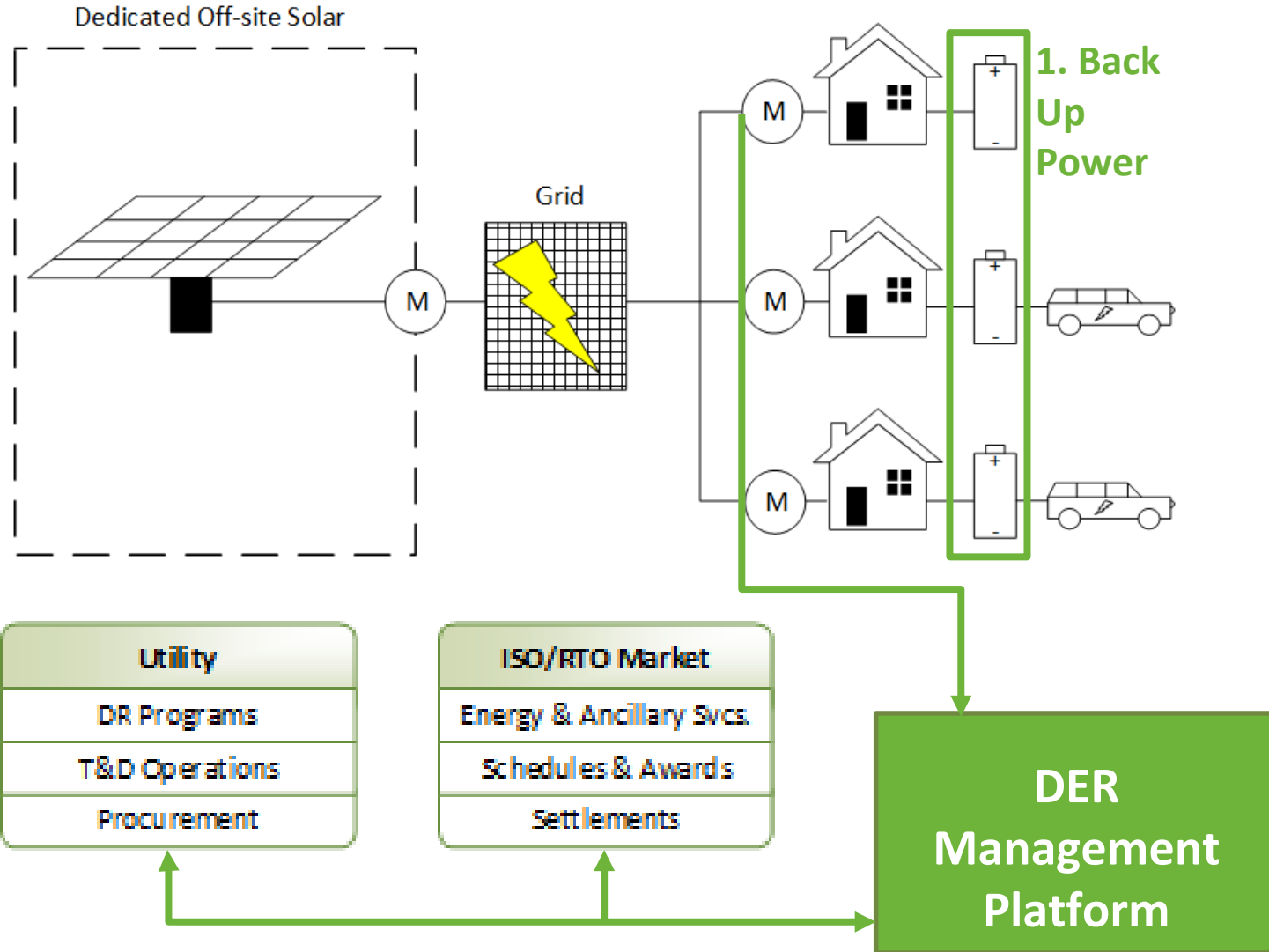


	1. Off-Site Solar Plus Storage	2. Off-Site Solar Plus Integrated Storage	3. Microgrid Integrated Solar Plus Storage	4. Microgrid Shared Solar Plus Storage
<b>Transmission and distribution upgrade deferral</b>	X	X	X	X
<b>Load shifting</b>		X	X	X
<b>Demand charge management</b>		X	X	X
<b>Islanding</b>			By household or community	By community
<b>Backup</b>		By household	By household or community	By community
<b>ZNE</b>			By household or community	By community
<b>Grid Services</b>	X	By household or aggregated	aggregated	X

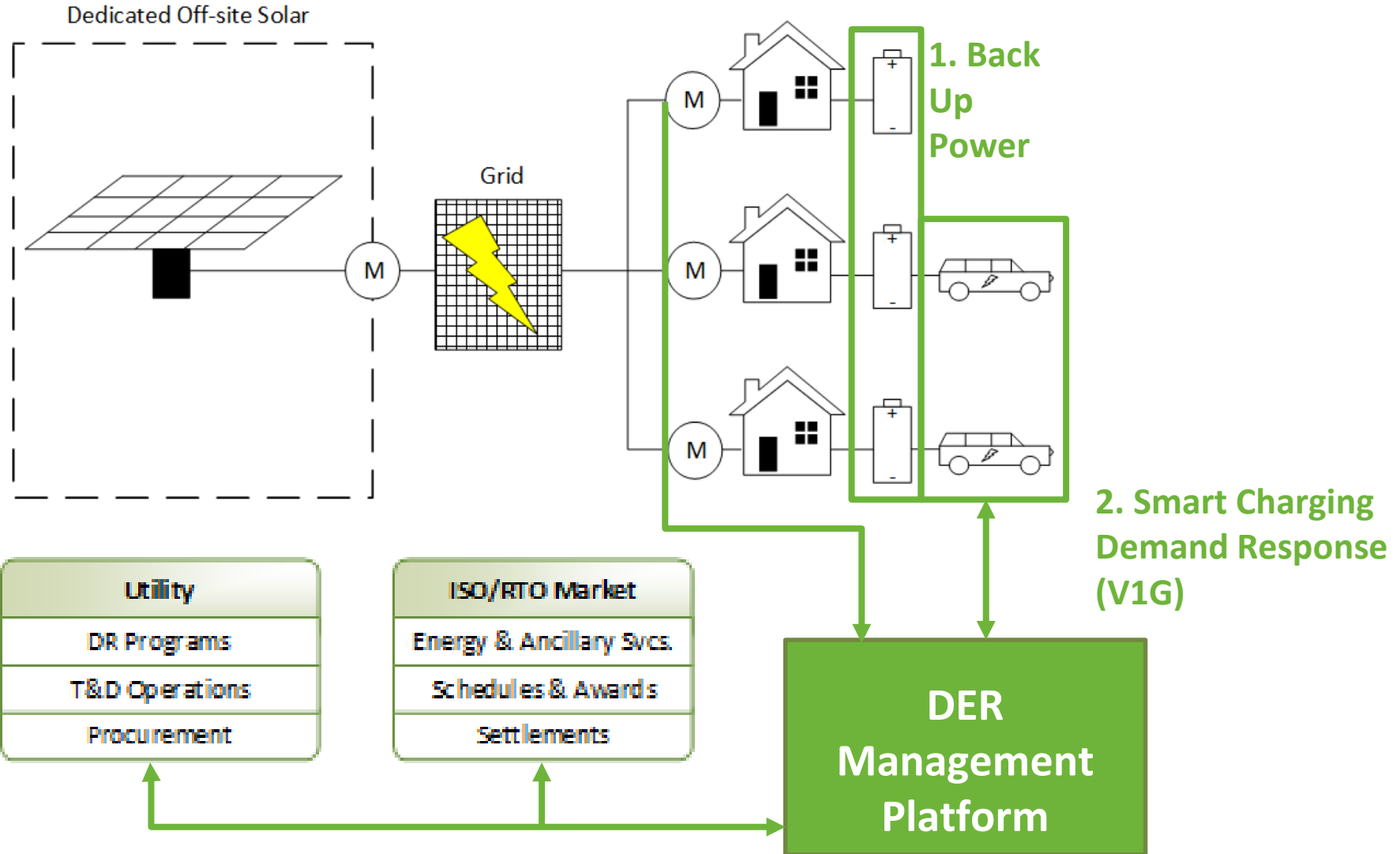
# Community Solar + Storage



# Community Solar + Storage

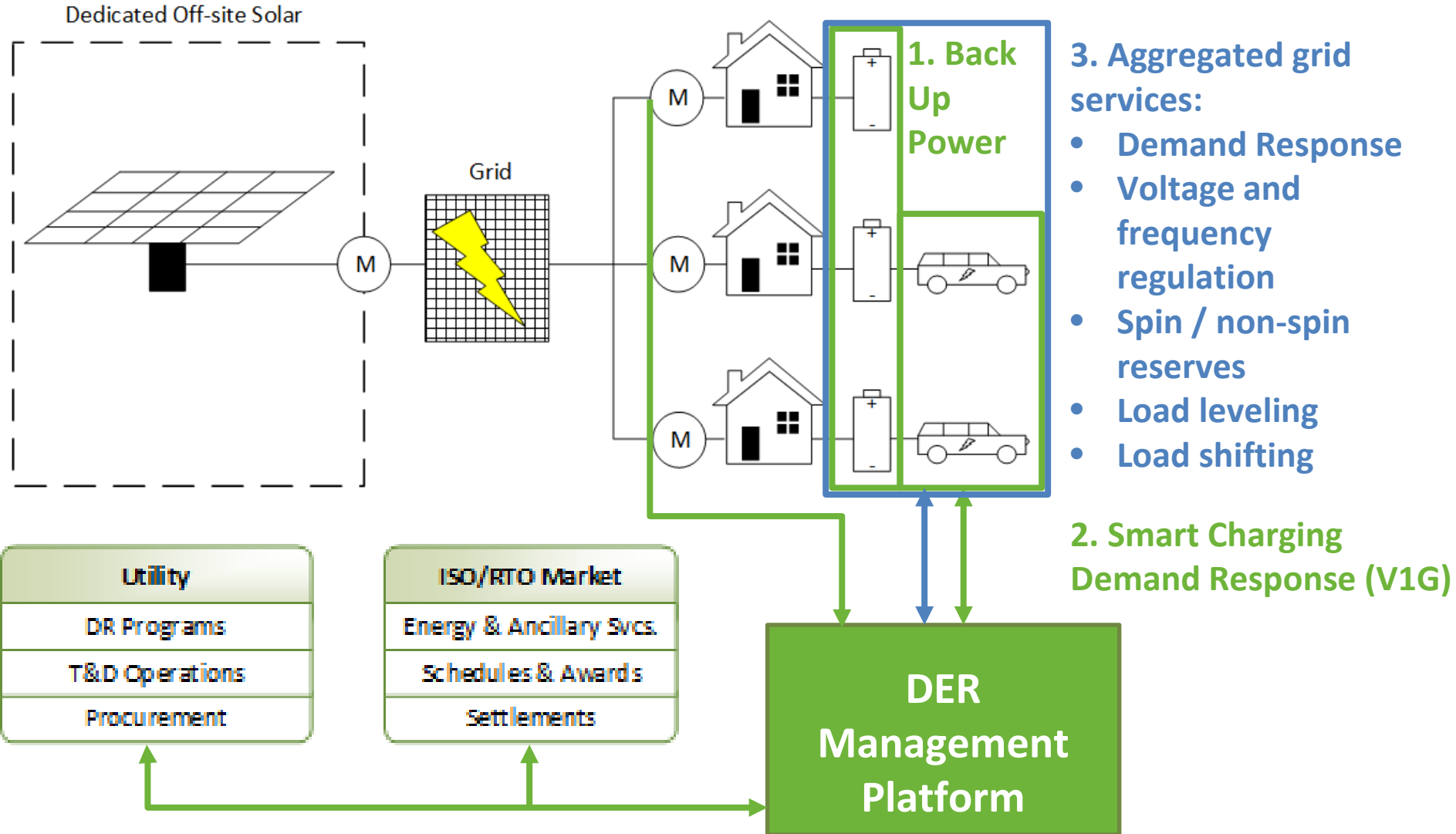


# Community Solar + Storage





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