

### energy web

Energy Web Overview June 2021

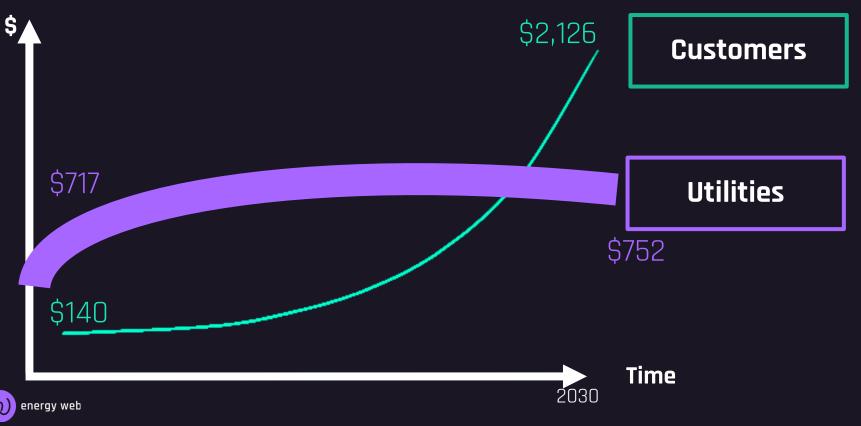
### We launched EW to help grid operators transform the way they run 21st century energy markets and programs



Our mission is to develop and deploy a **decentralized digital operating system** for the energy sector in support of a low-carbon energy future

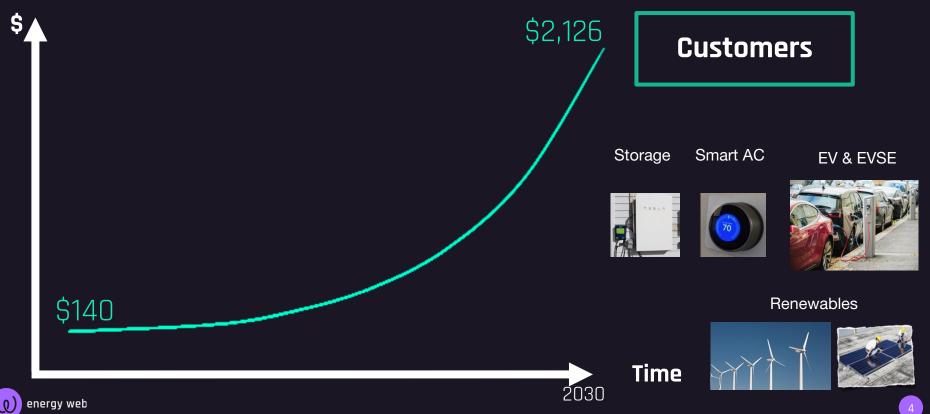


### Customer spending on RE & DER is on-track to eclipse utility investment

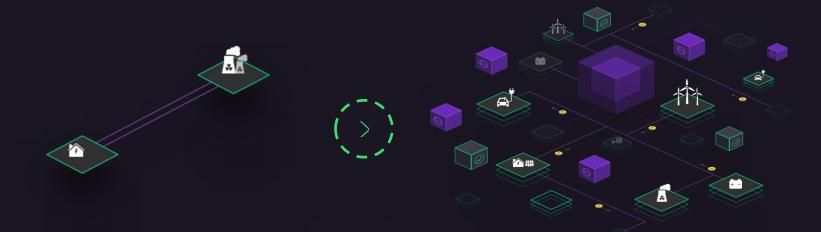


#### These assets are the future of the energy sector

USD billions



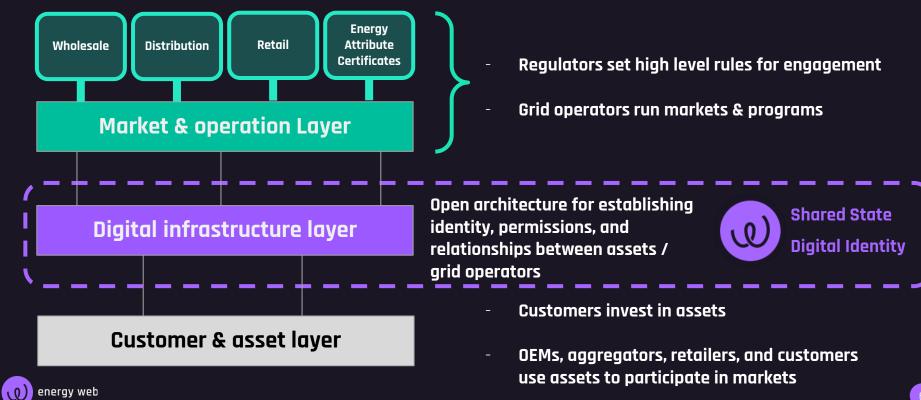
The challenge: grid operators generally unequipped to procure services from DERs. We solve this problem via digital, decentralized infrastructure



20<sup>th</sup> Century Model: centralized, top-down registration and operation of a small number of thermal assets

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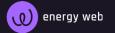
Energy Web Model: decentralized, flexible, bottom-up coordination of a large number of customer, OEM, aggregator, and grid operatorcontrolled low-carbon assets Our objective is to help markets for grid services from DERs—including EVs—to be deployed as quickly as possible across the world



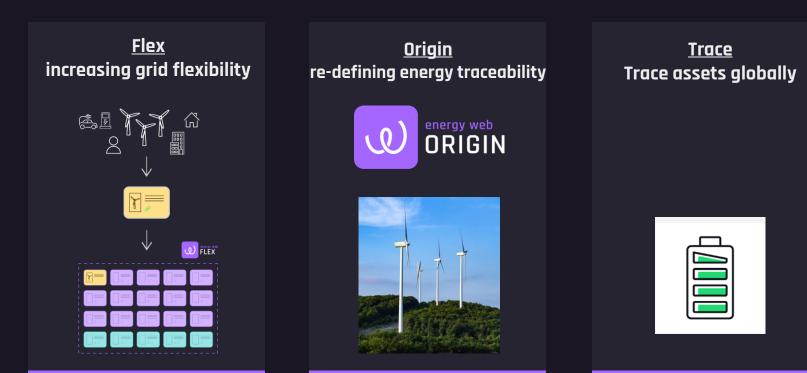
#### The Energy Web Ecosystem

#### Member organizations at the forefront of adopting the EW-DOS stack

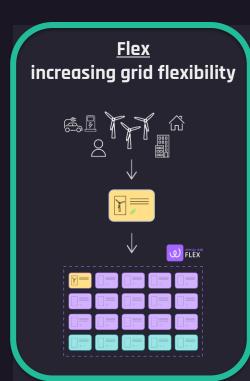




### We are working on three application domains where the EW stack can unlock the most value



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<u>Origin</u> re-defining energy traceability

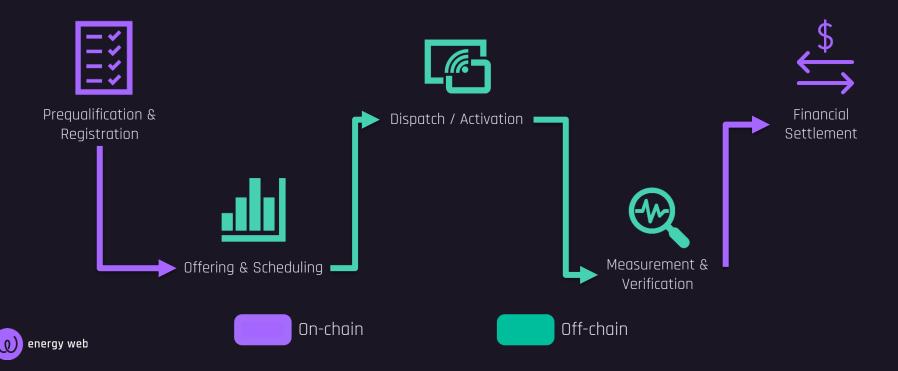




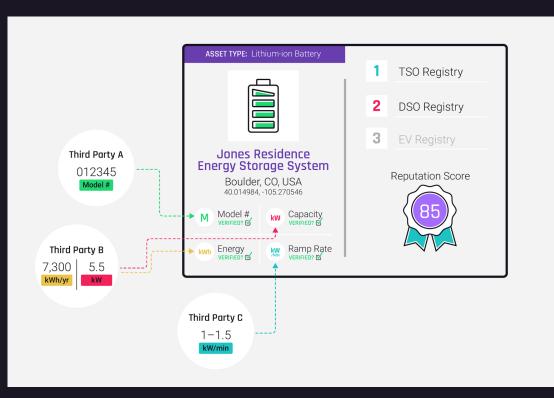
<u>Trace</u> Trace assets globally

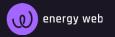


Prosumers and distributed energy resources like vehicles and charge points can provide flexibility. With EW Flex, we make prosumer / DER participation in flex markets <u>trusted by utilities</u> and as <u>easy as online shopping for customers</u>

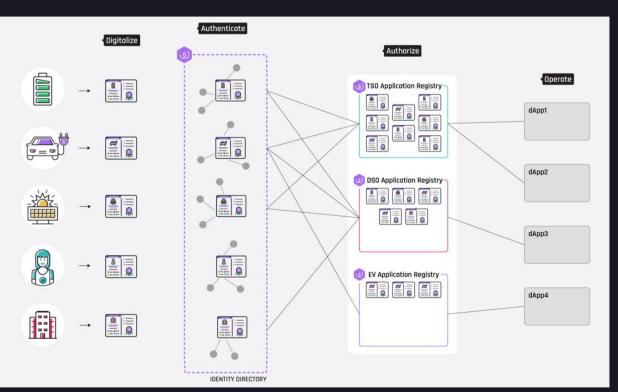


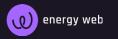
It works by assigning all customers, asset owners, market participants, and authorities a digital identity





## Identities can then register to different energy markets according to local / regional / global rules and regulations



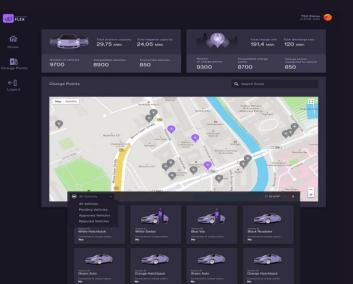


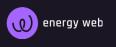












### Origin





<u>Trace</u> trace assets globally



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### Origin: re-defining energy traceability



- Green Charging
- Electric vehicles can participate in the energy attribute certificates (EAC) markets



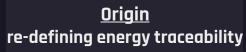
- Simplified access to the fragmented renewables markets around the globe.
- Traceability for carbon offsets from suppliers and the OEM to the customer



#### Trace

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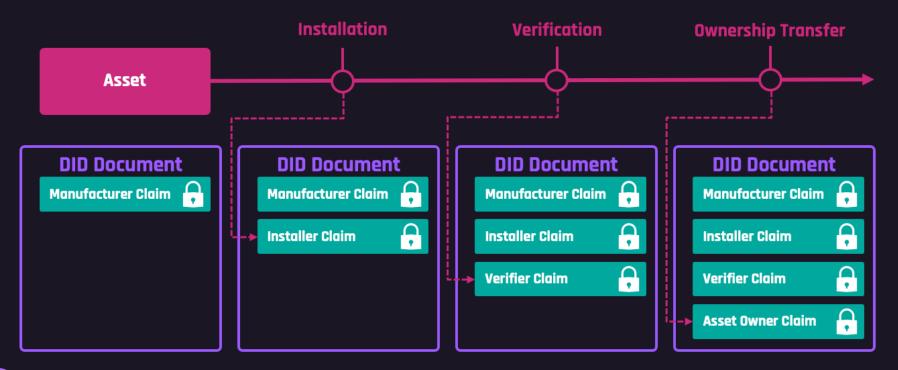








### Digitizing Assets and Managing their Lifecycle



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# Thank you!

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