Distribution Planning and Interconnection Process



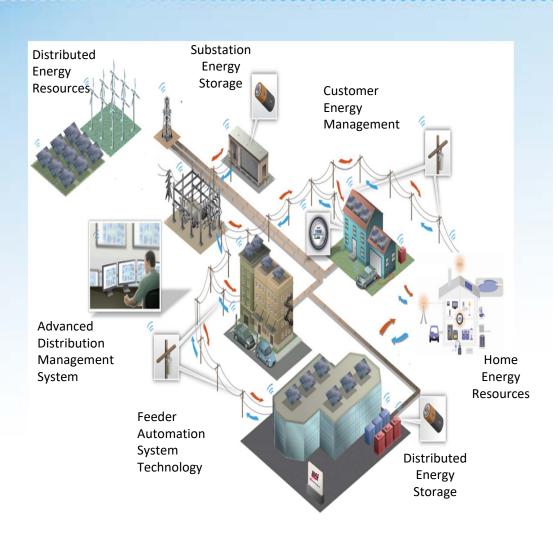
Jose Lopez – Distribution Planning Manager Ken Parks - Customer Generation Manager



Evolving Distribution System

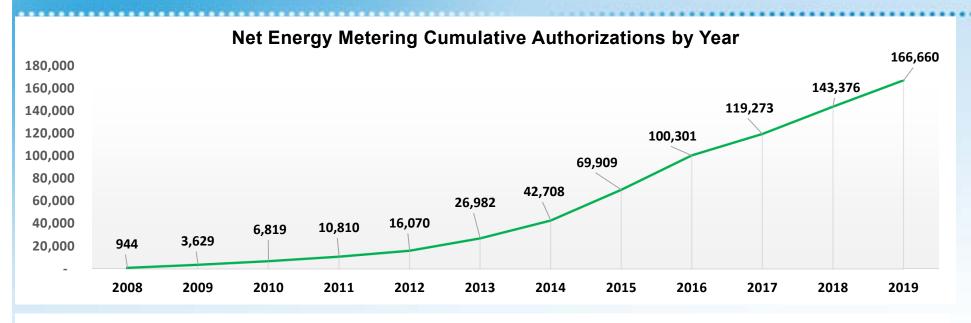


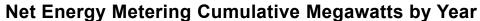
- Leveraging prior innovations:
 Advanced Metering Infrastructure
 (AMI), Weather Network, SCADA
- Implementing and advancing tools and systems to plan, monitor, and control the distribution system: advanced distribution management, distributed energy resource (DER) management
- Enhancing consumer engagement in support of a more innovative and efficient energy system



DER Growth









Making Things Easy for Our Customers



- Distribution interconnection portal
- Distribution Interconnection Information System (DIIS)
 - Transparency and efficiency
- FastTrack interconnection process
 - Environmentally Conscious
 - Quickest in the state
- Automated online payments
 - Flexibility
 - Convenience
- Automated jurisdictional (AHJ) electrical release process



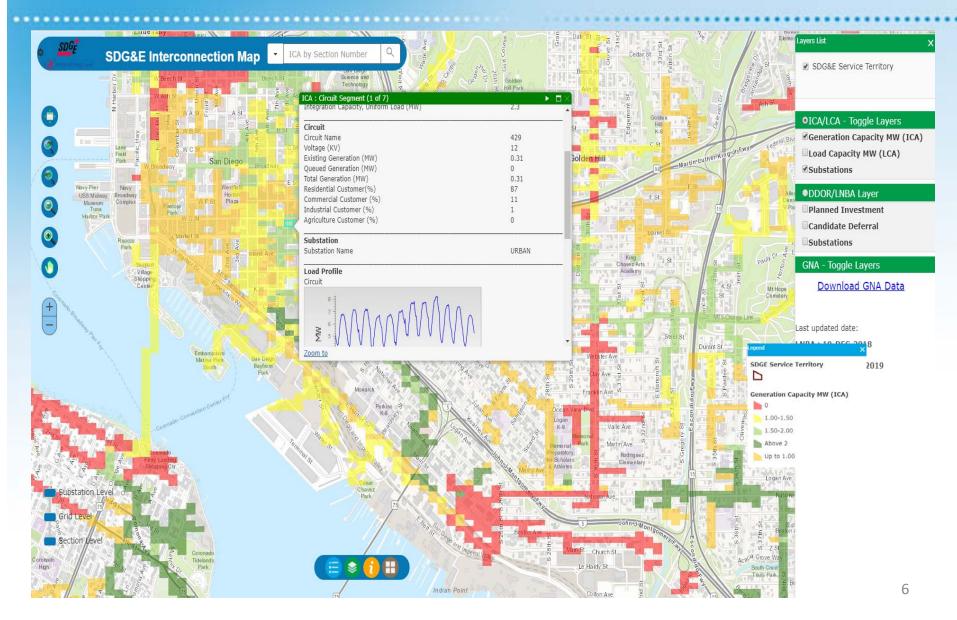


- Distribution capacity information to help enable DER interconnection safely and reliably
- Information most relevant to larger DER projects
- ICA analysis produces DER hosting capacity information at millions of locations across the distribution system
- Calculating ICA Values
 - Assesses current system capabilities
 - Uses dynamic methods hourly load and resource profiles



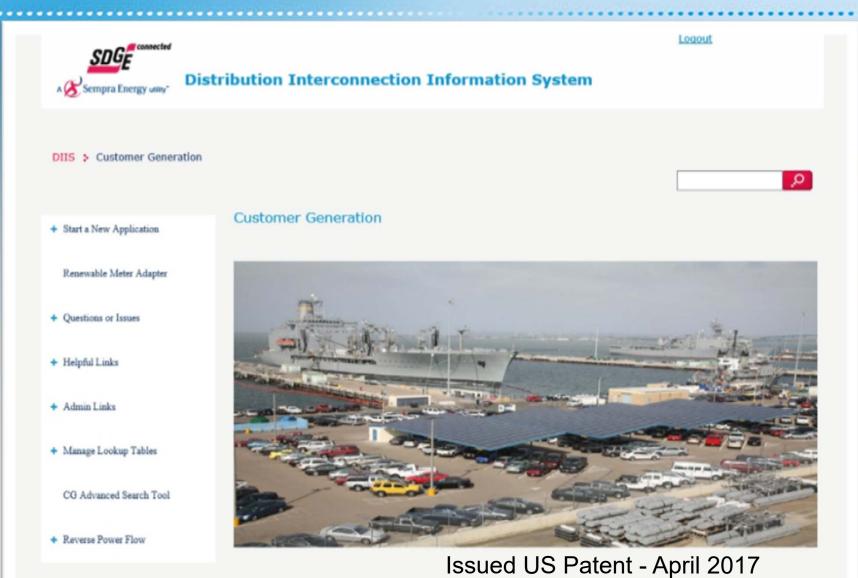
Interconnection Portal





Distribution Interconnection System





DIIS Features and Benefits



Features

- DIIS was launched 2013
- Keys: service and transparency
- Empowers customers/ contractors to manage their own business through self-service tools and monitor every milestone within the utility's control

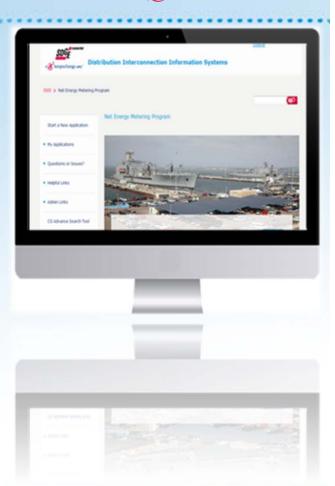
Benefits

- Over 140,000 applications processed
- ~87,000 through Fast Track process (60%)
- Average approval time is three days
- 500,000 avoided vehicle miles due to Fast Track

Continuous Improvement

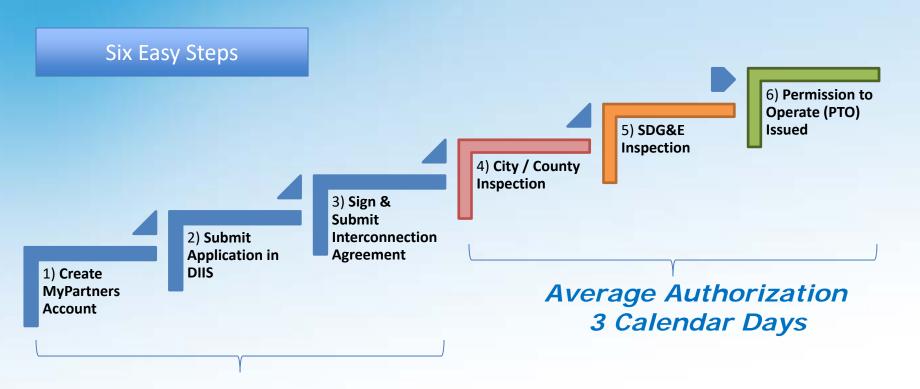


- GoSolar website reader for inverters/modules
- Reverse Power Flow Detection
- Remote Meter Configuration (RMC)
- GIS integration release (mapping)
- Transformer Loading
- NEM paired with storage
- Automated approvals
- Tariff changes
- PayPal/Braintree integration
- AHJ Inspector (City inspection releases)
- Standard Rule 21 application automated
- Backup generator tracking



Automated Application Process





Customer Responsibility

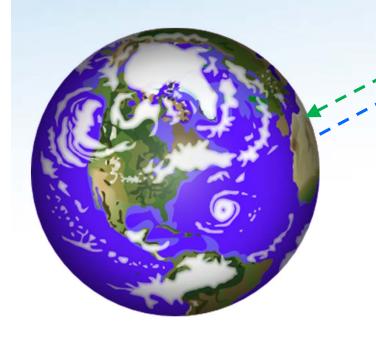
SDG&E's automated process has eliminated many of the administrative type application deficiencies that existed prior to its implementation

Fast Track











Automated Online Payment



- Easy Convenient Flexible
 - Available 24/7 everyday
 - Processed 74,729 payments

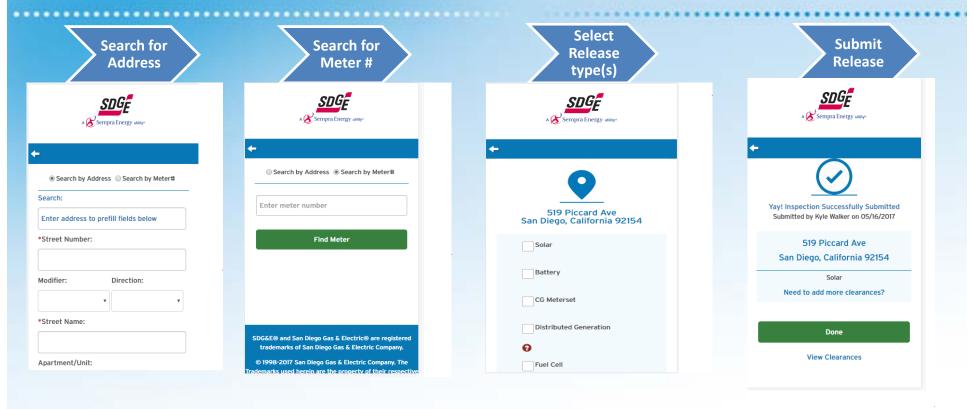


NEM Payments by Hour



Automated Electrical Release Process





- More efficient way of sending electrical releases for generation (no need for double entry)
- ✓ When user is typing in address or electric meter number, the system autocompletes to assist with data entry
- ✓ Ability to concurrently submit multiple electrical releases at the same location (solar, battery, meter set, etc.)



Thank You!