

# GRID POWER

## *Lowering Emissions*

An EverGreen™ Energy solution that can significantly decrease Greenhouse Gas (GHG) emissions and mitigate noise in environmentally sensitive areas.



## THE CHALLENGE

To reduce land-based drilling GHG emissions, while supplying sufficient power supply during peak loading of the rig.

## THE SOLUTION

Precision offers an alternative energy solution to power our AC rigs using grid power. This solution safely and efficiently integrates grid power to the drilling complex supplying a cost effective solution.

## THE TECHNOLOGY

Grid power technology allows the rig to accept high voltage power from a utility provider. The power is then adjusted to 600V at the grid power feeder bay installed at the rig. If harmonic mitigation is required, it can be achieved by introducing an active harmonic filtering unit. Grid power can also be connected to another EverGreenEnergy™ solution, our battery energy storage system to compensate for transient load spikes resulting from the instantaneous rig equipment power demand.

# ENVIRONMENTAL

Grid powered rigs provide an alternative to diesel fuel combustion generators. During drilling activities, carbon emissions are virtually eliminated at the rig complex when connected to grid power.

## CUSTOMER BENEFITS



## EXPLORE GRID POWER

When considering a grid power solution for your drilling program, here are some considerations to get the process started:

- ✓ Identify a utility supply company that has services close to your drilling location.
  - ✓ The power company will require you to advise them on consumption and peak loads. Precision can compute the power demand and load requirements based on well drilling programs (pump pressure, pump volume, etc.) and can work with you to establish proper power footprint.
- ✓ Requires a short circuit study at the point of common connection.
- ✓ Transformer location considerations to ensure close proximity to drive house at the rig.
- ✓ May require harmonic mitigation, power factor correction, and/or adherence to customer power provisions.